



Suction pad standard (standard, deep, compact)

VSP-*R*, *A*, *RM* Series

Suction pad with a basic shape that can be used in general applications



Three types of shapes are available: general type ideal for flat workpieces, deep type ideal for round workpieces and compact type ideal for small workpieces

A wide range of holder variations

Shape	18types	Piping	12types	Stroke	12types
● Standard6 types	● Lightweight, 3 types	● Push-in fitting (ø 1.8 to ø 12)Six types	2mm to 50mm (Depends on pad diameter and holder)		
● Compact5 types	● Low height: 2 types	● Barbed fitting (ø 4, ø 6)Two types			
● Low dust generation . 2 types		● Screw-in (M3, M5, G1/8, G1/4), 4 types			

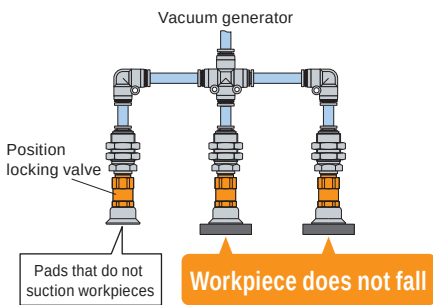
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle

Free holder
(F1:30°, F2:15°)

Flexible holder
(CF)

Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



Pad surface treatment (option) is available for special treatment to reduce suction marks

	-NF	-SF	-DL	-ER	-FG
Surface-Treated	Fiber raising		Anti-sticking	Suction mark relief	Fluorine coating
	Nylon	Silk			
Compatible materials	Silicone Fluorine	Silicone Fluorine	Silicone Fluorine Conductive silicone	Nitriles Conductive NBR (low resistance)	Silicone Conductive silicone
Features	The fibers (nylon or silk) on the pad surface prevent rubber material transfer by avoiding direct contact with the workpiece.		Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.
Compatible types	Standard, deep			Standard, deep, compact	

VSP-*R*, *A*, *RM* Series

Pad shape

Standard

the most basic shape of a pad that can be used universally

Deep type

Deeper lip for good track to curved surfaces

Compact

Specializing in small diameter sizes, it supports suction of small parts (IC chip, etc.)

Pad diameter

Standard	18 types	Deep type	9 types	Compact	6 types									
1	2	3	4	6	15	20	25	30	40	0.7	1	1.5	2	3
8	10	15	20	25	50	60	80	100		4				
30	40	50	60	80										
100	150	200												

Pad material

Standard	10 types	Nitriles	Silicone	Urethane	Fluorine	Conductive silicone	Conductive butadiene (low resistance)
		Conductive NBR (low resistance)	NBR compatible with the Food Sanitation Act	HNBR	EPDM		
Deep type	9 types	Nitriles	Silicone	Urethane	Fluorine	Conductive silicone	
		Conductive NBR (low resistance)	NBR compatible with the Food Sanitation Act	HNBR	EPDM		
Compact	10 types	Nitriles	Silicone	Urethane	Fluorine	Conductive silicone	Conductive butadiene (low resistance)
		Conductive NBR (low resistance)	NBR compatible with the Food Sanitation Act	HNBR	EPDM		

* Compatible with the Food Sanitation Act NBR (G) and silicone (S) are compatible with the Food Sanitation Act. (holder is not supported/ suction pad is compatible only with workpiece contact part)

Solution examples

Conveying heavy steel plates
press, laser, etc.

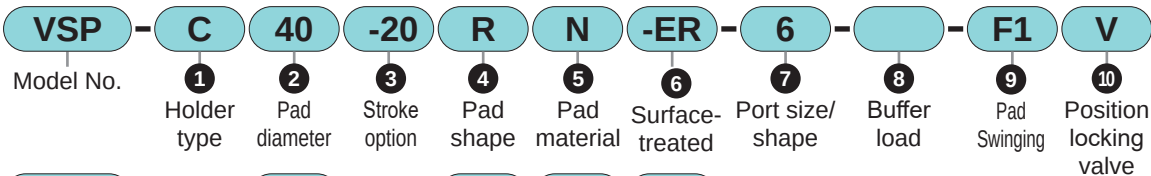
Conveying spherical workpieces
Food processing machinery, etc.

Compact transport unit
Electronic parts, semiconductor

How to order

●Standard, general (R), deep (A), compact (RM)

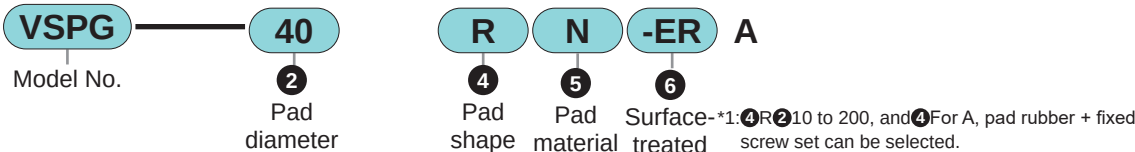
Suction pad



Pad rubber only



Pad rubber + Set with fixing screw



1 Holder type

With/without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact		MA	
	Standard	Lateral direction	B	
	Compact		MB	
	Compact		HE	
	Low height	Both lateral directions	HEW	
			HEW	
	Standard	Direct mounting	E	
	Compact		ME	
With/without buffer	Type	Vacuum outlet	Code	
Buffer type	Standard	Upward direction	C	
	Compact		MC	
	Low dust generation	Lateral direction	LFC	
	Lightweight		HC	
	Standard		D	
	Compact	Lateral direction	MD	
	Low dust generation		LFD	
	Lightweight	Both lateral directions	HD	
			HDW	
	Standard	Direct mounting	F	

2 Pad diameter

Pad shape	R										A										RM										Code
Pad material	N	S	U	F	SE	E	NE	G	HN	EP	N	S	U	F	SE	E	NE	G	HN	EP	N	S	U	F	SE	E	NE	G	HN	EP	
Pad diameter																															
ø0.7																															0.7
ø1	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	1
ø1.5																					●	●	●	●	●	●	●	●	●	●	1.5
ø2	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	2
ø3	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	3
ø4	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	4
ø6	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	6
ø8	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	8
ø10	●	●	●	●	●	●	●	●	●	●											●	●	●	●	●	●	●	●	●	●	10
ø15	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	15
ø20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	20
ø25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	25
ø30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	30
ø40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	40
ø50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	50
ø60	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	60
ø80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	80
ø100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	100
ø150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150
ø200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	200

3 Stroke option

Description	C	D	HC	LFC	LFD	Code
Specified stroke or without buffer	●	●				Blank
Stroke 2 mm				●		-2
Stroke 5 mm				●	●	-5
Stroke 10 mm	●	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	●	-20
Stroke 25 mm			●			-25
Stroke 30 mm	●	●	●			-30
Stroke 40 mm	●	●	●			-40
Stroke 50 mm	●	●	●			-50

*1: 1 Other than C, D, HC, LFC, LFD, 3 is blank.

*2: 3 For a blank designated stroke, check the stroke dimensions on the O.D. dimension drawing.

*3: 2 For 0.7 to 15, 3-2 can be selected for .

4 Pad shape

Code	Description	
R	Standard, general	
A	Standard, deep	
RM	Standard, compact	

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
U	Urethane rubber
F	Fluoro rubber
SE	Conductive silicone rubber
E	Conductive butadiene rubber (low resistance)
NE	Conductive NBR (low resistance)
G	NBR compatible with the Food Sanitation Act
HN	HNBR
EP	EPDM

How to order

Refer to the following page for holder shape - pad diameter - pad shape - port size/shape combinations.

Specifications for rechargeable battery (Catalog No.CC-1226A)

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Design compatible with rechargeable battery manufacturing process

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - P4*

VSP - - FP*

6 Surface-treated

Description	Compatible pad material					Supported pad diameter			Code
	N	S	F	SE	NE	Standard (R)	Deep (A)	Compact (RM)	
No surface treatment						All pads material, all pad diameters			Blank
Fiber nap (nylon)		●	●			ø15 to ø80	ø15 to ø80		-NF
Fiber raising (silk)		●	●			ø15 to ø80	ø15 to ø80		-SF
Anti-stick special coating		●	●	●		ø6 to ø50	ø15 to ø50		-DL
Suction mark reduction surface modification	●				●	ø6 to ø60	ø15 to ø60	ø0.7 to ø4	-ER
Fluorine coating		●		●		ø6 to ø200	ø15 to ø100	ø0.7 to ø4	-FG

7 Port size/shape

Description	A	B	C	D	MA	MB	MC	MD	ME	LFC	LFD	HC	HD	HDW	HE	HEW	Code
(1: For E and F)																	Blank
ø1.8 push-in fitting		●	●	●	●	●	●	●				●	●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	4
ø6 push-in fitting	●	●	●	●		●		●		●	●	●	●	●	●	●	6
ø8 push-in fitting	●	●	●	●													8
ø10 push-in fitting	●	●	●	●													10
ø12 push-in fitting	●		●														12
ø4 Push-in fitting, without spring cover			●	●													4C
ø6 Push-in fitting, without spring cover			●	●													6C
ø4 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●													4TC
ø6 Barbed fitting, without spring cover			●	●													6TC
M 3 x 0.5									●								M3
M5x0.8									●								M5
G1/8	●	●	●	●													6A
G1/4	●	●	●	●													8A

*1: 1 C, D 3-20 up-For 50, 7 4C, 6C, 4TC, 6TC can be selected.

*2: 2 The port size and shape that can be selected differ depending on the pad diameter. Refer to the combination table on the following page.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1

*2

*1: 1 With the exception of LFC, 3 is blank.

*2: 3 For -2, 3 is blank.

9 Swiveling pad

Code	Description	
Blank	None	
F1	Free holder With swing angle 30°	
F2	Free holder With swing angle 15°	
CF	With flexible holder angle 8°	

*1: 2 For 10 to 100, 3 F1 or F2 can be selected.

*2: 1 E 2 6, 8, and 1 ME 7 M5, and 2 For 10 to 50, 3 CF can be selected.

10 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve *1	

*1: 1 E, ME and 2 For 10 to 100, 3 V can be selected.

*2: 3 For -NF and -SF, 3 is blank.

VSP-* R* , * A* , * RM* Series

Holder shape - pad diameter - pad shape - port size/shape combinations

Holder type	Pad diameter	Pad shape	Push-in fitting									Barbed fitting				Thread	
			ø1.8	ø4		ø6		ø8	ø10	ø12	ø4		ø6		G1/8	G1/4	
			2	4	4C	6	6C	8	10	12	4T	4TC	6T	6TC	6A	8A	
A	ø1 to ø4	R		●							●						
	ø6 to ø8			●		●				●		●					
	ø10 to ø15	R(A)				●						●					
	ø20 to ø50			●		●			●		●						
	ø60 to ø100			●		●		●					●				
	ø150 to ø200	R				●		●	●	●				●			
B	ø1 to ø4	R	●	●							●		●				
	ø6 to ø8		●	●		●				●		●					
	ø10 to ø50	R(A)		●		●					●		●				
	ø60 to ø100			●		●		●					●				
	ø150 to ø200	R				●		●	●						●		
C	ø1 to ø4	R	●	●		●					●		●				
	ø6 to ø8		●	●	●	●	●			●	●	●	●				
	ø10 to ø50	R(A)		●	●	●	●				●	●	●	●			
	ø60 to ø100			●		●		●						●			
	ø150 to ø200	R				●		●	●	●					●		
D	ø1 to ø4	R	●	●		●					●		●				
	ø6 to ø8		●	●	●	●	●				●	●	●	●			
	ø10 to ø50	R(A)		●	●	●	●				●	●	●	●			
	ø60 to ø100			●		●		●						●			
	ø150 to ø200	R				●		●	●						●		

Holder type	Pad diameter	Pad shape	Thread	
			M3	M5
			Blank	
E	R	RM		●
	ø1 to ø4	R	●	
	ø6 to ø8			●

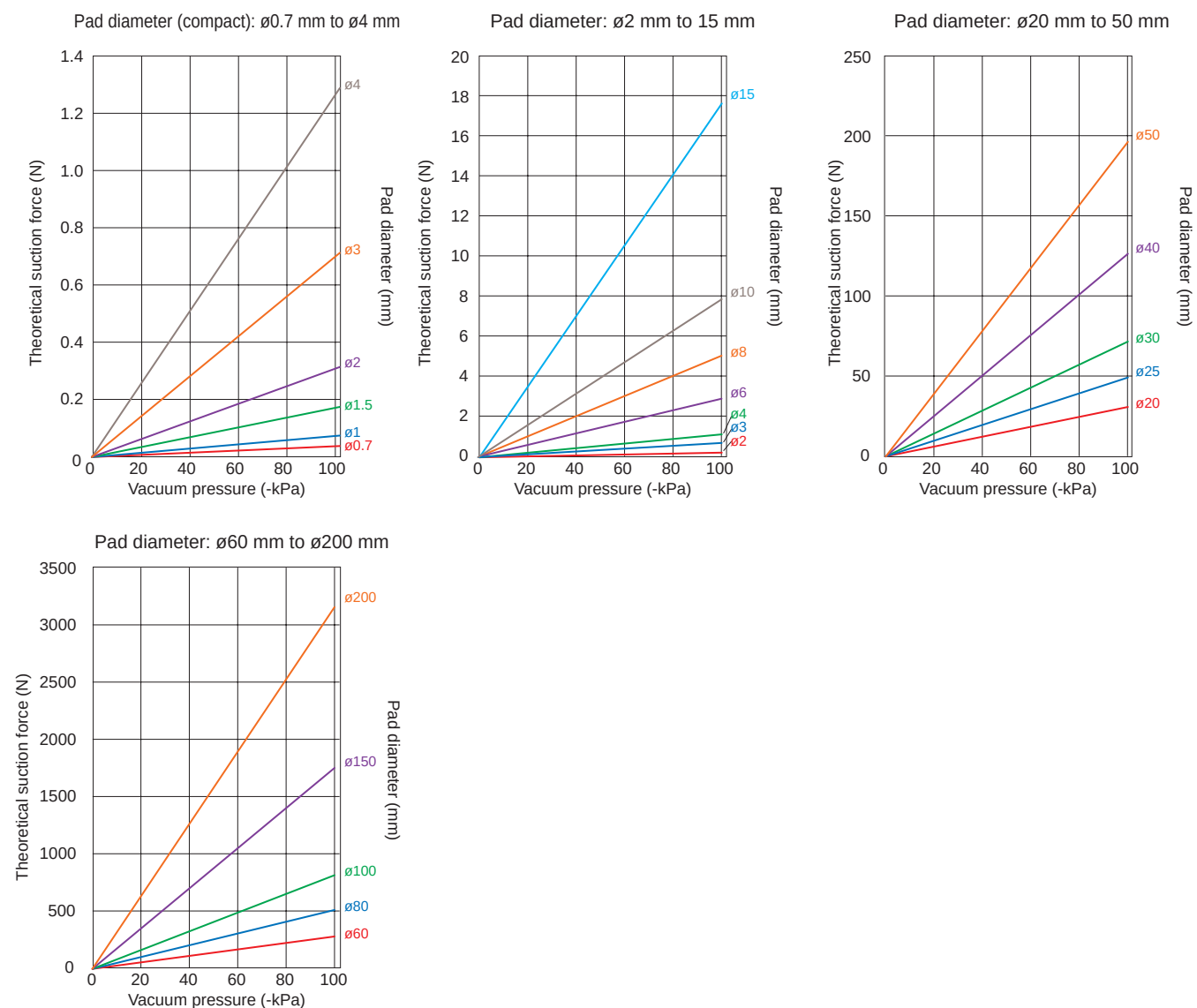
Holder type	Pad diameter	Pad shape	Thread	
			M10	M14
			Blank	
F	ø1 to ø8	R	●	
	ø10 to ø50	R(A)		●

Holder type	Pad diameter	Pad shape	Push-in fitting			Barbed fitting	
			ø1.8	ø4	ø6	ø4	ø6
			2	4	6	4T	6T
MA	ø0.7 to ø4	RM	●			●	
	ø6 to ø8	R	●			●	
	ø10 to ø15	R(A)		●		●	
	ø20 to ø50			●		●	●
MB	ø0.7 to ø4	RM	●	●		●	●
	ø6 to ø8	R	●	●		●	●
	ø10 to ø50	R(A)	●	●	●	●	●
MC	ø0.7 to ø4	RM	●			●	●
	ø6 to ø8	R	●			●	●
	ø10 to ø50	R(A)	●	●		●	●
MD	ø0.7 to ø4	RM	●	●		●	●
	ø6 to ø8	R	●	●		●	●
	ø10 to ø50	R(A)	●	●	●	●	●

Holder type	Pad diameter	Pad shape	Push-in fitting			Barbed fitting	
			ø1.8	ø4	ø6	ø4	ø6
			2	4	6	4T	6T
LFC	ø0.7 to ø4	RM		●		●	●
	ø6 to ø15	R(A)		●		●	●
	ø20 to ø50	R(A)		●	●	●	●
LFD	ø0.7 to ø4	RM		●		●	●
	ø6 to ø15	R(A)		●		●	●
	ø20 to ø50	R(A)		●	●	●	●
HC	ø10 to ø50	R(A)	●	●	●	●	●
HD	ø6 to ø50	R(A)	●	●	●	●	●
HDW	ø6 to ø50	R(A)	●	●	●	●	●
HE	ø6 to ø50	R(A)	●	●	●	●	●
HEW	ø6 to ø50	R(A)	●	●	●	●	●

Holder type	Pad diameter	Pad shape	Thread	
			M3	M5
			Blank	
ME	ø0.7 to ø4	RM	●	
	ø6 to ø8	R		●

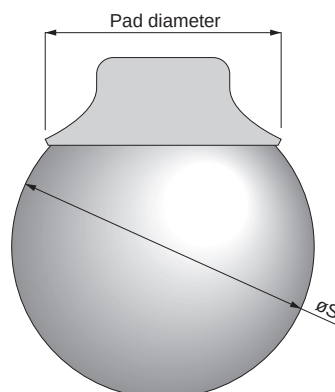
Theoretical suction force



Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use.

● Suction of spherical surfaces (deep pad)
Minimum adsorbable diameter

Pad diameter (mm)	$\varnothing 15$	$\varnothing 20$	$\varnothing 25$	$\varnothing 30$	$\varnothing 40$	$\varnothing 50$	$\varnothing 60$	$\varnothing 80$	$\varnothing 100$
Sphere diameter ($\varnothing S$ mm)	20	30	40	50	80	100	120	160	200



Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

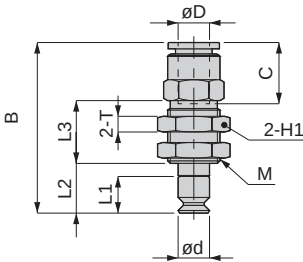
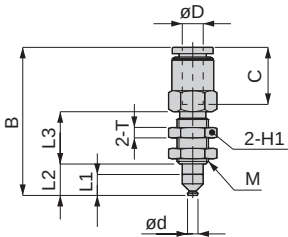
Suction mark
prevention

VSP-***R***, ***A***, ***RM*** Series

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

●VSP-A1 to 4R*-4

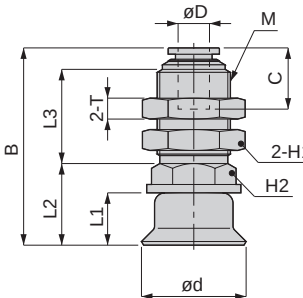
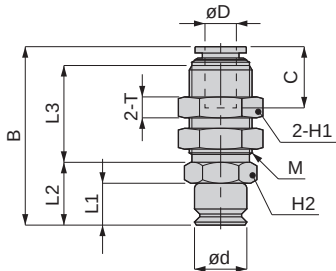
●VSP-A6, 8R*-4/6



●VSP-A10R*6

●VSP-A20 to 50R(A)*-4/6

●VSP-A15R(A)*-6

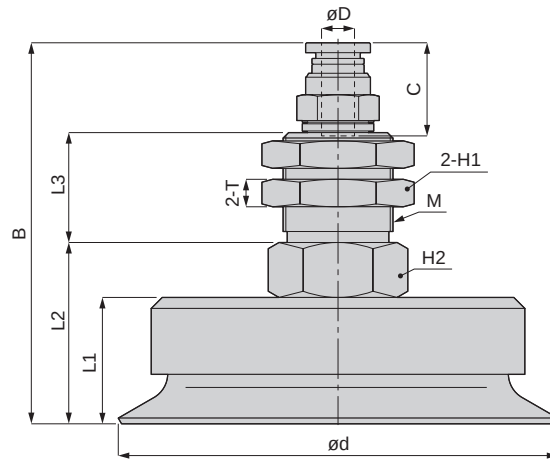


Unit: mm												
Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	Tube end C	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A1R*4	1	4	M6 x 0.75	28.6	4	6	10	11.2	8	—	2	5.7
VSP-A2R*4	2	4	M6 x 0.75	28.6	4	6	10	11.2	8	—	2	5.7
VSP-A3R*4	3	4	M6 x 0.75	28.6	4	6	10	11.2	8	—	2	5.7
VSP-A4R*4	4	4	M6 x 0.75	28.6	4	6	10	11.2	8	—	2	5.7
VSP-A6R*4	6	4	M8 x 0.75	32.1	7	9.5	18.5	11.2	12	—	3	8.5
VSP-A6R*6		6	M10 x 1	32.8				11.9				13
VSP-A8R*4	8	4	M8 x 0.75	30.6	5.5	8	18.5	11.2	12	—	3	8.5
VSP-A8R*6		6	M10 x 1	31.3				11.9				13
VSP-A10R*6	10	6	M12 x 1	34.3	8	12	18	11.9	14	12	4	21
VSP-A15R(A)*-6	15	6	M12 x 1	35.3 (36.3)	9 (10)	13 (14)	18	11.9	14	12	4	21 (21)
VSP-A20R(A)*-4	20	4	M12 x 1	46.9 (47.9)	10 (11)	16 (17)	18	11.2	17	12	4	31 (31)
VSP-A20R(A)*-6		6	M14 x 1	37.9 (38.9)		15.6 (16.6)		11.9				37 (37)
VSP-A25R(A)*-4	25	4	M12 x 1	47.9 (48.9)	11 (12)	17 (18)	18	11.2	17	12	4	31 (31)
VSP-A25R(A)*-6		6	M14 x 1	38.9 (39.9)		16.6 (17.6)		11.9				37 (37)
VSP-A30R(A)*-4	30	4	M12 x 1	47.9 (50.9)	11 (14)	17 (20)	18	11.2	17	12	4	33 (33)
VSP-A30R(A)*-6		6	M14 x 1	38.9 (41.9)		16.6 (19.6)		11.9				39 (39)
VSP-A40R(A)*-4	40	4	M12 x 1	50.9 (54.4)	14 (17.5)	20 (23.5)	18	11.2	17	12	4	40 (41)
VSP-A40R(A)*-6		6	M14 x 1	41.9 (45.4)		19.6 (23.1)		11.9				46 (47)
VSP-A50R(A)*-4	50	4	M12 x 1	51.9 (54.9)	15 (18)	21 (24)	18	11.2	17	12	4	46 (48)
VSP-A50R(A)*-6		6	M14 x 1	42.9 (45.9)		20.6 (23.6)		11.9				52 (54)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

- VSP-A60 to 100R(A)*-4/6/8
- VSP-A150, 200R*-6/8/10/12



Unit: mm

Model No.	Pad diameter ϕd	Bore size ϕD	Mounting screw M	B	L1	L2	L3	Tube end C	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A60R(A)*-4	60	4	M20 x 1	61.2 (68.2)	18 (25)	30.6 (37.6)	20	11.2	24	22	5	141 (142)
VSP-A60R(A)*-6		6		63.4 (70.4)				11.9				142 (143)
VSP-A60R(A)*-8		8		71.8 (78.8)				18.2				147 (148)
VSP-A80R(A)*-4	80	4	M20 x 1	63.6 (73.6)	23 (33)	33 (43)	20	11.2	24	22	5	225 (234)
VSP-A80R(A)*-6		6		65.8 (75.8)				11.9				226 (235)
VSP-A80R(A)*-8		8		74.2 (84.2)				18.2				231 (240)
VSP-A100R(A)*-4	100	4	M20 x 1	65.6 (74.6)	25 (34)	35 (44)	20	11.2	24	22	5	315 (321)
VSP-A100R(A)*-6		6		67.8 (76.8)				11.9				316 (322)
VSP-A100R(A)*-8		8		76.2 (85.2)				18.2				321 (327)
VSP-A150R*-6	150	6	M 24 x 2	111	45	65	30	11.9	30	27	10	938
VSP-A150R*-8		8		111.7				18.2				937
VSP-A150R*-10		10		118.7				20.7				942
VSP-A150R*-12		12		123.9				23.3				960
VSP-A200R*-6	200	6	M24 x 2	116	50	70	30	11.9	30	27	10	1418
VSP-A200R*-8		8		116.7				18.2				1417
VSP-A200R*-10		10		123.7				20.7				1422
VSP-A200R*-12		12		128.9				23.3				1440

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

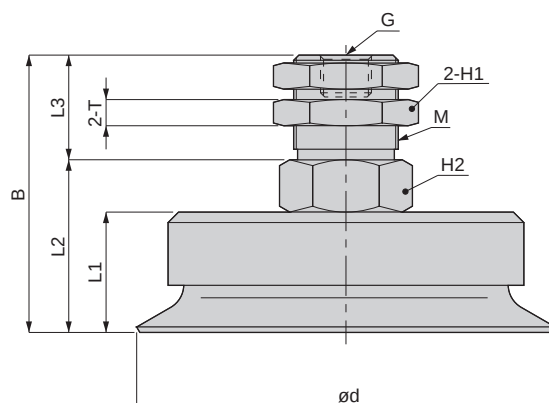
Flat

Suction mark
prevention

CKD

Dimensions (fixed, vacuum outlet top VSP-A, female thread)

- VSP-A60 to 100R(A)*-6A
- VSP-A150, 200R*-8A



Unit: mm											Weight (g)
Model No.	Pad diameter ød	Vacuum outlet size G	Mounting screw M	B	L1	L2	L3	Hexagon H1	Hexagon H2	T	
VSP-A60R(A)*-6A	60	G1/8	M20 x 1	50.6 (57.6)	18 (25)	30.6 (37.6)	20	24	22	5	133 (133)
VSP-A80R(A)*-6A	80	G1/8	M20 x 1	53 (63)	23 (33)	33 (43)	20	24	22	5	217 (226)
VSP-A100R(A)*-6A	100	G1/8	M20 x 1	55 (64)	25 (34)	35 (44)	20	24	22	5	307 (313)
VSP-A150R*-8A	150	G1/4	M24 x 2	95	45	65	30	30	27	10	923
VSP-A200R*-8A	200	G1/4	M24 x 2	100	50	70	30	30	27	10	1403

*1: Dimensions in () are that of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

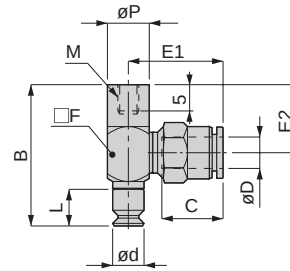
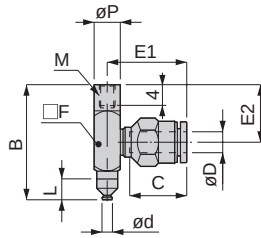
Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

●VSP-B1 to 4R*-2/4

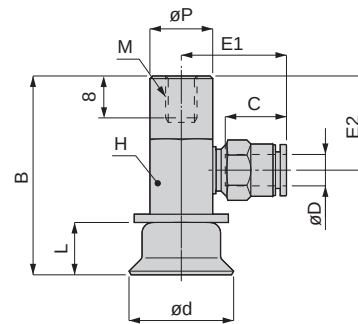
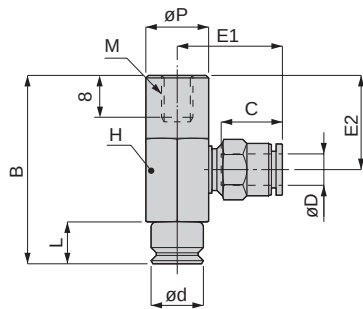
●VSP-B6, 8R*-2/4/6



●VSP-B10R*-4/6

●VSP-B20 to 50R(A)*-4/6

●VSP-B15R(A)*-4/6



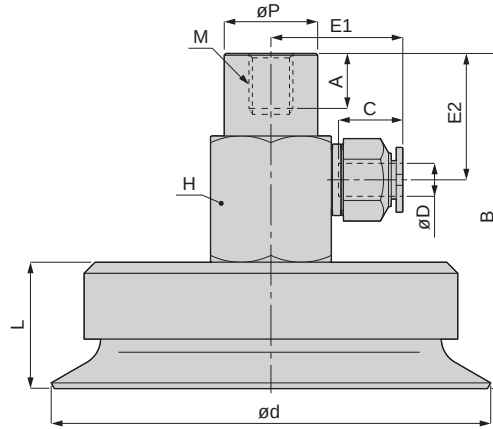
Unit: mm

Model No.	Pad diameter øD	Bore size ød	Mounting screw M	B	L	Tube end C	øP	E1	E2	Hexagon H	□F	Weight (g)
VSP-B1R*-2	1	1.8	M3 x 0.5	22	4	8.4	5	12	11	—	5	5
VSP-B1R*-4		4				11.2		15.3				6
VSP-B2R*-2	2	1.8	M3 x 0.5	22	4	8.4	5	12	11	—	5	5
VSP-B2R*-4		4				11.2		15.3				6
VSP-B3R*-2	3	1.8	M3 x 0.5	22	4	8.4	5	12	11	—	5	5
VSP-B3R*-4		4				11.2		15.3				6
VSP-B4R*-2	4	1.8	M3 x 0.5	22	4	8.4	5	12	11	—	5	5
VSP-B4R*-4		4				11.2		15.3				6
VSP-B6R*-2	6	1.8	M4 x 0.7	27	7	8.4	8	12.7	13	—	8	11
VSP-B6R*-4		4				11.2		16.8				12
VSP-B6R*-6		6				11.9		18.6				13
VSP-B8R*-2	8	1.8	M4 x 0.7	25.5	5.5	8.4	8	12.7	13	—	8	11
VSP-B8R*-4		4				11.2		16.8				12
VSP-B8R*-6		6				11.9		18.6				13
VSP-B10R*-4	10	4	M6 x 1	36	8	11.2	12	18.8	18	12	—	29
VSP-B10R*-6		6				11.9		20.1				30
VSP-B15R(A)*-4	15	4	M6 x 1	37 (38)	9 (10)	11.2	12	18.8	18	12	—	30 (30)
VSP-B15R(A)*-6		6				11.9		20.1				31 (31)
VSP-B20R(A)*-4	20	4	M6 x 1	38 (39)	10 (11)	11.2	12	18.8	18	12	—	33 (33)
VSP-B20R(A)*-6		6				11.9		20.1				34 (34)
VSP-B25R(A)*-4	25	4	M6 x 1	39 (40)	11 (12)	11.2	12	18.8	18	12	—	34 (34)
VSP-B25R(A)*-6		6				11.9		20.1				35 (35)
VSP-B30R(A)*-4	30	4	M6 x 1	39 (42)	11 (14)	11.2	12	18.8	18	12	—	36 (36)
VSP-B30R(A)*-6		6				11.9		20.1				37 (37)
VSP-B40R(A)*-4	40	4	M6 x 1	42 (45.5)	14 (17.5)	11.2	12	18.8	18	12	—	43 (44)
VSP-B40R(A)*-6		6				11.9		20.1				44 (45)
VSP-B50R(A)*-4	50	4	M6 x 1	43 (46)	15 (18)	11.2	12	18.8	18	12	—	49 (50)
VSP-B50R(A)*-6		6				11.9		20.1				50 (51)

*1: Dimensions in () are that of the deep pad.

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

- VSP-B60 to 100R(A)*-4/6/8
- VSP-B150, 200R*-6/8/10



Unit: mm												
Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	A	B	L	Tube end C	ØP	E1	E2	Hexagon H	Weight (g)
VSP-B60R(A)*-4	60	4	M8 x 1.25	10	58.6 (65.6)	18 (25)	11.2	17	21.5	23	22	148 (147)
VSP-B60R(A)*-6		6					11.9		23.7			149 (148)
VSP-B60R(A)*-8		8					18.2		32.1			154 (153)
VSP-B80R(A)*-4	80	4	M8 x 1.25	10	61 (71)	23 (33)	11.2	17	21.5	23	22	232 (240)
VSP-B80R(A)*-6		6					11.9		23.7			233 (241)
VSP-B80R(A)*-8		8					18.2		32.1			237 (245)
VSP-B100R(A)*-4	100	4	M8 x 1.25	10	63 (72)	25 (34)	11.2	17	21.5	23	22	321 (327)
VSP-B100R(A)*-6		6					11.9		23.7			322 (328)
VSP-B100R(A)*-8		8					18.2		38.6			327 (333)
VSP-B150R*-6	150	6	M16 x 2	20	110	45	17	26	30.9	40	30	1008
VSP-B150R*-8		8					18.2		31.6			1008
VSP-B150R*-10		10					20.7		38.6			1115
VSP-B200R*-6	200	6	M16 x 2	20	115	50	17	26	30.9	40	30	1487
VSP-B200R*-8		8					18.2		31.6			1487
VSP-B200R*-10		10					20.7		38.6			1494

*1: Dimensions in () are that of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

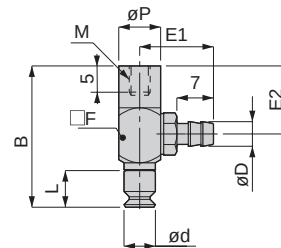
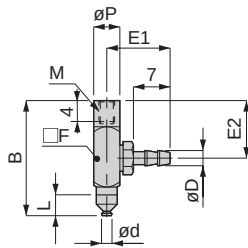
Suction mark
prevention

VSP-*R*, *A*, *RM* Series

Dimensions (fixed. vacuum outlet side VSP-B, barbed fitting)

●VSP-B1 to 4R*-4T/6T

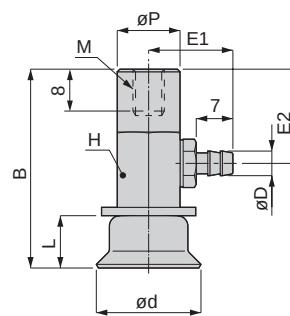
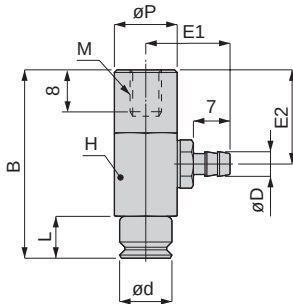
●VSP-B6, 8R*-4T/6T



●VSP-B10R*-4T/6T

●VSP-B15R(A)*-4T/6T

●VSP-B20 to 50R(A)*-4T/6T



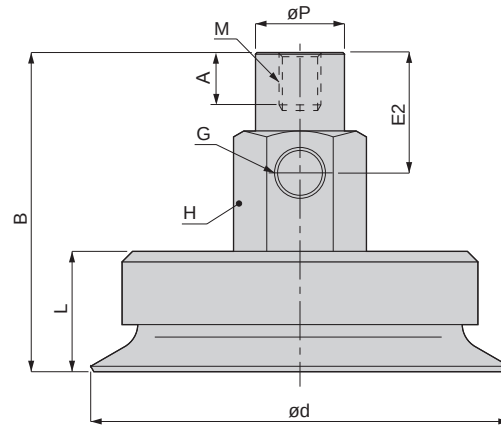
Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L	øP	E1	E2	Hexagon H	F	Weight (g)
VSP-B1R*-4T	1	2.5	M3 x 0.5	22	4	5	11.9	11	—	5	4
VSP-B1R*-6T		4									
VSP-B2R*-4T	2	2.5	M3 x 0.5	22	4	5	11.9	11	—	5	4
VSP-B2R*-6T		4									
VSP-B3R*-4T	3	2.5	M3 x 0.5	22	4	5	11.9	11	—	5	4
VSP-B3R*-6T		4									
VSP-B4R*-4T	4	2.5	M3 x 0.5	22	4	5	11.9	11	—	5	4
VSP-B4R*-6T		4									
VSP-B6R*-4T	6	2.5	M4 x 0.7	27	7	8	13.9	13	—	8	11
VSP-B6R*-6T		4									
VSP-B8R*-4T	8	2.5	M4 x 0.7	25.5	5.5	8	13.9	13	—	8	11
VSP-B8R*-6T		4									
VSP-B10R*-4T	10	2.5	M6 x 1	36	8	12	15.9	18	12	—	29
VSP-B10R*-6T		4									
VSP-B15R(A)*-4T	15	2.5	M6 x 1	37 (38)	9 (10)	12	15.9	18	12	—	29 (29)
VSP-B15R(A)*-6T		4									
VSP-B20R(A)*-4T	20	2.5	M6 x 1	38 (39)	10 (11)	12	15.9	18	12	—	32 (32)
VSP-B20R(A)*-6T		4									
VSP-B25R(A)*-4T	25	2.5	M6 x 1	39 (40)	11 (12)	12	15.9	18	12	—	33 (33)
VSP-B25R(A)*-6T		4									
VSP-B30R(A)*-4T	30	2.5	M6 x 1	39 (42)	11 (14)	12	15.9	18	12	—	35 (35)
VSP-B30R(A)*-6T		4									
VSP-B40R(A)*-4T	40	2.5	M6 x 1	42 (45.5)	14 (17.5)	12	15.9	18	12	—	42 (43)
VSP-B40R(A)*-6T		4									
VSP-B50R(A)*-4T	50	2.5	M6 x 1	43 (46)	15 (18)	12	15.9	18	12	—	48 (49)
VSP-B50R(A)*-6T		4									

*1: Dimensions in () are that of the deep pad.

Dimensions (fixed, vacuum outlet side VSP-B, female thread)

- VSP-B60 to 100R(A)*-6A
- VSP-B150, 200R*-8A



Unit: mm

Model No.	Pad diameter Ød	Vacuum outlet size G	Mounting screw M	A	B	L	ØP	E2	Hexagon H	Weight (g)
VSP-B60R(A)*-6A	60	G1/8	M8 x 1.25	10	58.6 (65.6)	18 (25)	17	23	22	140 (139)
VSP-B80R(A)*-6A	80	G1/8	M8 x 1.25	10	61 (71)	23 (33)	17	23	22	224 (232)
VSP-B100R(A)*-6A	100	G1/8	M8 x 1.25	10	63 (72)	25 (34)	17	23	22	313 (319)
VSP-B150R*-8A	150	G1/4	M16 x 2	20	110	45	26	40	30	995
VSP-B200R*-8A	200	G1/4	M16 x 2	20	115	50	26	40	30	1474

*1: Dimensions in () are that of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

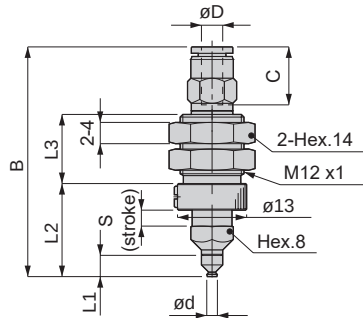
Flat

Suction mark
prevention

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C1 to 4R*-2/4/6
- VSP-C1 to 4-□R*-2/4/6



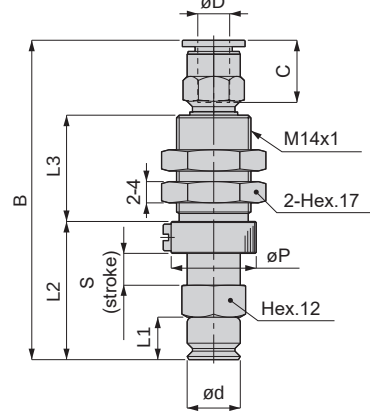
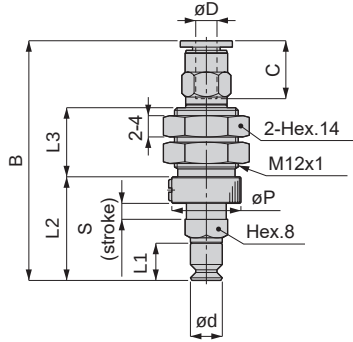
Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C1R*-2	1	1.8	39.4	4	17.5	13	8.4	3	0.9 to 1.9	16
	VSP-C1R*-4		4	43.5				11.2			17
	VSP-C1R*-6		6	45.3				11.9			20
Sponge	VSP-C1-10R*-2		1.8	53.4		27	17.5	8.4	10	0.6 to 1.7	20
	VSP-C1-10R*-4		4	57.5				11.2			21
	VSP-C1-10R*-6		6	59.3				11.9			24
Bellows	VSP-C1-15R*-2		1.8	64.4		32	23.5	8.4	15	0.4 to 1.7	23
	VSP-C1-15R*-4		4	68.5				11.2			24
	VSP-C1-15R*-6		6	70.3				11.9			27
Multi-Stage bellows	VSP-C1-20R*-2		1.8	74.4		37	28.5	8.4	20	0.3 to 1.8	26
	VSP-C1-20R*-4		4	78.5				11.2			27
	VSP-C1-20R*-6		6	80.3				11.9			30
Oval	VSP-C2R*-2	2	1.8	39.4	4	17.5	13	8.4	3	0.9 to 1.9	16
	VSP-C2R*-4		4	43.5				11.2			17
	VSP-C2R*-6		6	45.3				11.9			20
Soft	VSP-C2-10R*-2		1.8	53.4		27	17.5	8.4	10	0.6 to 1.7	20
	VSP-C2-10R*-4		4	57.5				11.2			21
	VSP-C2-10R*-6		6	59.3				11.9			24
Soft bellows	VSP-C2-15R*-2		1.8	64.4		32	23.5	8.4	15	0.4 to 1.7	23
	VSP-C2-15R*-4		4	68.5				11.2			24
	VSP-C2-15R*-6		6	70.3				11.9			27
Anti-slip	VSP-C2-20R*-2		1.8	74.4		37	28.5	8.4	20	0.3 to 1.8	26
	VSP-C2-20R*-4		4	78.5				11.2			27
	VSP-C2-20R*-6		6	80.3				11.9			30
Thin object	VSP-C3R*-2	3	1.8	39.4	4	17.5	13	8.4	3	0.9 to 1.9	16
	VSP-C3R*-4		4	43.5				11.2			17
	VSP-C3R*-6		6	45.3				11.9			20
Flat	VSP-C3-10R*-2		1.8	53.4		27	17.5	8.4	10	0.6 to 1.7	20
	VSP-C3-10R*-4		4	57.5				11.2			21
	VSP-C3-10R*-6		6	59.3				11.9			24
Suction mark prevention	VSP-C3-15R*-2		1.8	64.4		32	23.5	8.4	15	0.4 to 1.7	23
	VSP-C3-15R*-4		4	68.5				11.2			24
	VSP-C3-15R*-6		6	70.3				11.9			27
	VSP-C3-20R*-2		1.8	74.4		37	28.5	8.4	20	0.3 to 1.8	26
	VSP-C3-20R*-4		4	78.5				11.2			27
	VSP-C3-20R*-6		6	80.3				11.9			30
	VSP-C4R*-2	4	1.8	39.4	4	17.5	13	8.4	3	0.9 to 1.9	16
	VSP-C4R*-4		4	43.5				11.2			17
	VSP-C4R*-6		6	45.3				11.9			20
	VSP-C4-10R*-2		1.8	53.4		27	17.5	8.4	10	0.6 to 1.7	20
	VSP-C4-10R*-4		4	57.5				11.2			21
	VSP-C4-10R*-6		6	59.3				11.9			24
	VSP-C4-15R*-2		1.8	64.4		32	23.5	8.4	15	0.4 to 1.7	23
	VSP-C4-15R*-4		4	68.5				11.2			24
	VSP-C4-15R*-6		6	70.3				11.9			27
	VSP-C4-20R*-2		1.8	74.4		37	28.5	8.4	20	0.3 to 1.8	26
	VSP-C4-20R*-4		4	78.5				11.2			27
	VSP-C4-20R*-6		6	80.3				11.9			30

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C6, 8R*-2/4/6
- VSP-C6, 8-□R*-2/4/6

- VSP-C10R*-4/6
- VSP-C10-□R*-4/6
- VSP-C15R(A)*-4/6
- VSP-C15-□R(A)*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	øP	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C6R*-2	6	1.8	41.4	7	19.5	13	13	8.4	3	0.9 to 1.9	17
VSP-C6R*-4		4	45.5					11.2			18
VSP-C6R*-6		6	47.3					11.9			19
VSP-C6-10R*-2		1.8	52.9		26.5	17.5		8.4	10	0.8 to 2.7	19
VSP-C6-10R*-4		4	57					11.2			20
VSP-C6-10R*-6		6	58.8					11.9			21
VSP-C6-15R*-2		1.8	63.9		31.5	23.5		8.4	15	0.7 to 3.0	23
VSP-C6-15R*-4		4	68					11.2			24
VSP-C6-15R*-6		6	69.8					11.9			25
VSP-C6-20R*-2		1.8	73.9		36.5	28.5		8.4	20	0.9 to 3.4	25
VSP-C6-20R*-4		4	78					11.2			26
VSP-C6-20R*-6		6	79.8					11.9			26
VSP-C8R*-2	8	1.8	39.9	5.5	18	13	13	8.4	3	0.9 to 1.9	17
VSP-C8R*-4		4	44					11.2			18
VSP-C8R*-6		6	45.8					11.9			19
VSP-C8-10R*-2		1.8	51.4		25	17.5		8.4	10	0.8 to 2.7	19
VSP-C8-10R*-4		4	55.5					11.2			20
VSP-C8-10R*-6		6	57.3					11.9			21
VSP-C8-15R*-2		1.8	62.4		30	23.5		8.4	15	0.7 to 3.0	23
VSP-C8-15R*-4		4	66.5					11.2			24
VSP-C8-15R*-6		6	68.3					11.9			25
VSP-C8-20R*-2		1.8	72.4		35	28.5		8.4	20	0.9 to 3.4	25
VSP-C8-20R*-4		4	76.5					11.2			26
VSP-C8-20R*-6		6	78.3					11.9			27
VSP-C10R*-4	10	4	59	8	26	20	16	11.2	6	4.0 to 7.1	35
VSP-C10R*-6		6	60.3					11.9			36
VSP-C10-10R*-4		4	63.5		30.5	25		11.2	10	2.0 to 5.2	36
VSP-C10-10R*-6		6	64.8					11.9			37
VSP-C10-15R*-4		4	73.5		35.5	34		11.2	15	2.0 to 5.9	41
VSP-C10-15R*-6		6	74.8					11.9			42
VSP-C10-20R*-4		4	89.5		42.5	34		11.2	20	1.1 to 4.8	48
VSP-C10-20R*-6		6	90.8					11.9			49
VSP-C15R(A)*-4	15	4	60 (61)	9 (10)	27 (28)	20	16	11.2	6	4.0 to 7.1	35 (35)
VSP-C15R(A)*-6		6	61.3 (62.3)					11.9			36 (36)
VSP-C15-10R(A)*-4		4	64.5 (65.5)		31.5 (32.5)	25		11.2	10	2.0 to 5.2	36 (36)
VSP-C15-10R(A)*-6		6	65.8 (66.8)					11.9			37 (37)
VSP-C15-15R(A)*-4		4	74.5 (75.5)		36.5 (37.5)	34		11.2	15	2.0 to 5.9	41 (41)
VSP-C15-15R(A)*-6		6	75.8 (76.8)					11.9			42 (42)
VSP-C15-20R(A)*-4		4	90.5 (91.5)		43.5 (44.5)	34		11.2	20	1.1 to 4.8	49 (49)
VSP-C15-20R(A)*-6		6	91.8 (92.8)					11.9			50 (50)

*1: Dimensions in () are of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

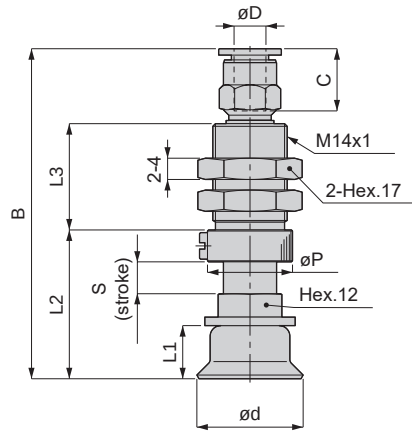
Flat

Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C20 to 50R(A)*-4/6
- VSP-C20 to 50-□R(A)*-4/6



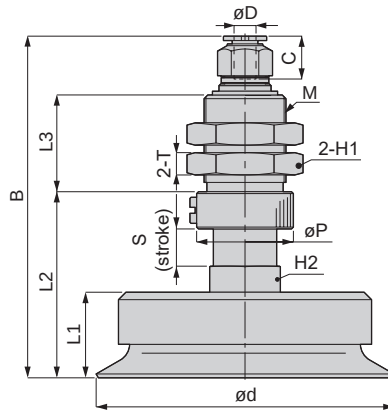
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C20R(A)*-4	20	4	61 (62)	10 (11)	28 (29)	20	11.2	6	7.0 to 12.6	39 (40)
Sponge	VSP-C20R(A)*-6		6	62.3 (63.3)				11.9			40 (41)
Bellows	VSP-C20-10R(A)*-4		4	67 (68)		34 (35)		11.2	10	3.3 to 10.0	41 (42)
	VSP-C20-10R(A)*-6		6	68.3 (69.3)				11.9			42 (43)
	VSP-C20-15R(A)*-4	20	4	77 (78)	10 (11)	39 (40)	25	11.2	15	3.3 to 10.4	46 (47)
	VSP-C20-15R(A)*-6		6	78.3 (79.3)				11.9			47 (48)
	VSP-C20-20R(A)*-4		4	93 (94)		46 (47)		11.2	20	2.0 to 8.7	53 (54)
	VSP-C20-20R(A)*-6		6	94.3 (95.3)				11.9			54 (55)
Multi-Stage bellows	VSP-C25R(A)*-4	25	4	62 (63)	11 (12)	29 (30)	20	11.2	6	7.0 to 12.6	39 (40)
	VSP-C25R(A)*-6		6	63.3 (64.3)				11.9			40 (41)
	VSP-C25-10R(A)*-4		4	68 (69)		35 (36)		11.2	10	3.3 to 10.0	42 (43)
	VSP-C25-10R(A)*-6		6	69.3 (70.3)				11.9			43 (44)
Oval	VSP-C25-15R(A)*-4	25	4	78 (79)	11 (12)	40 (41)	25	11.2	15	3.3 to 10.4	47 (48)
	VSP-C25-15R(A)*-6		6	79.3 (80.3)				11.9			48 (49)
	VSP-C25-20R(A)*-4		4	94 (95)		47 (48)		11.2	20	2.0 to 8.7	53 (54)
	VSP-C25-20R(A)*-6		6	95.3 (96.3)				11.9			54 (55)
Soft	VSP-C30R(A)*-4	30	4	62 (65)	11 (14)	29 (32)	20	11.2	6	7.0 to 12.6	42 (43)
	VSP-C30R(A)*-6		6	63.3 (66.3)				11.9			43 (44)
	VSP-C30-10R(A)*-4		4	68 (71)		35 (38)		11.2	10	3.3 to 10.0	44 (45)
	VSP-C30-10R(A)*-6		6	69.3 (72.3)				11.9			45 (46)
Soft bellows	VSP-C30-15R(A)*-4	30	4	78 (81)	11 (14)	40 (43)	25	11.2	15	3.3 to 10.4	49 (50)
	VSP-C30-15R(A)*-6		6	79.3 (82.3)				11.9			50 (51)
	VSP-C30-20R(A)*-4		4	94 (97)		47 (50)		11.2	20	2.0 to 8.7	56 (57)
	VSP-C30-20R(A)*-6		6	95.3 (98.3)				11.9			57 (58)
Anti-slip	VSP-C40R(A)*-4	40	4	65 (68.5)	14 (17.5)	32 (35.5)	20	11.2	6	7.0 to 12.6	49 (50)
	VSP-C40R(A)*-6		6	66.3 (69.8)				11.9			50 (51)
	VSP-C40-10R(A)*-4		4	71 (74.5)		38 (41.5)		11.2	10	3.3 to 10.0	51 (52)
	VSP-C40-10R(A)*-6		6	72.3 (75.8)				11.9			52 (53)
Thin object	VSP-C40-15R(A)*-4	40	4	81 (84.5)	14 (17.5)	43 (46.5)	25	11.2	15	3.3 to 10.4	56 (57)
	VSP-C40-15R(A)*-6		6	82.3 (85.8)				11.9			57 (58)
	VSP-C40-20R(A)*-4		4	97 (100.5)		50 (53.5)		11.2	20	2.0 to 8.7	63 (64)
	VSP-C40-20R(A)*-6		6	98.3 (101.8)				11.9			64 (65)
Flat	VSP-C50R(A)*-4	50	4	66 (69)	15 (18)	33 (36)	20	11.2	6	7.0 to 12.6	54 (56)
	VSP-C50R(A)*-6		6	67.3 (70.3)				11.9			55 (57)
	VSP-C50-10R(A)*-4		4	72 (75)		39 (42)		11.2	10	3.3 to 10.0	57 (58)
	VSP-C50-10R(A)*-6		6	73.3 (76.3)				11.9			58 (59)
Suction mark prevention	VSP-C50-15R(A)*-4	50	4	82 (85)	15 (18)	44 (47)	25	11.2	15	3.3 to 10.4	62 (63)
	VSP-C50-15R(A)*-6		6	83.3 (86.3)				11.9			63 (64)
	VSP-C50-20R(A)*-4		4	98 (101)		51 (54)		11.2	20	2.0 to 8.7	68 (70)
	VSP-C50-20R(A)*-6		6	99.3 (102.3)				11.9			69 (71)

*1: Dimensions in () are of the deep pad.

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C60 to 100R(A)*-4/6/8
- VSP-C150, 200R*-6/8/10/12



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	L3	ØP	Tube end C	H1 HEX	H2 HEX	T	Stroke S	Spring force (N)	Weight (g)
VSP-C60R(A)*-4	60	4	M22x1	87.2 (95.2)	18 (25)	47.6 (54.6)	26	26	10.9	27	19	6	10	10.1 to 15.8	169 (169)
VSP-C60R(A)*-6		6		89.4 (97.4)					11.7						170 (170)
VSP-C60R(A)*-8		8		97.8 (105.8)					18.2						175 (175)
VSP-C80R(A)*-4	80	4	M22x1	89.6 (99.6)	23 (33)	50 (60)	26	26	10.9	27	19	6	10	10.1 to 15.8	253 (262)
VSP-C80R(A)*-6		6		91.8 (101.8)					11.7						254 (263)
VSP-C80R(A)*-8		8		100.2 (110.2)					18.2						259 (268)
VSP-C100R(A)*-4	100	4	M22x1	91.6 (100.6)	25 (34)	52 (61)	26	26	10.9	27	19	6	10	10.1 to 15.8	343 (349)
VSP-C100R(A)*-6		6		93.8 (102.8)					11.7						344 (350)
VSP-C100R(A)*-8		8		102.2 (111.2)					18.2						349 (361)
VSP-C150R*-6	150	6	M30x2	180	45	112.1	48	35	11.7	36	30	10	20.1	14.0 to 25.5	1205
VSP-C150R*-8		8		180.7					18.2						1210
VSP-C150R*-10		10		187.7					20.7						1215
VSP-C150R*-12		12		192.9					23.3						1242
VSP-C200R*-6	200	6	M30x2	185	50	117.1	48	35	11.7	36	30	10	20.1	14.0 to 25.5	1684
VSP-C200R*-8		8		185.7					18.2						1689
VSP-C200R*-10		10		192.7					20.7						1694
VSP-C200R*-12		12		197.9					23.3						1712

*1: Dimensions in () are of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

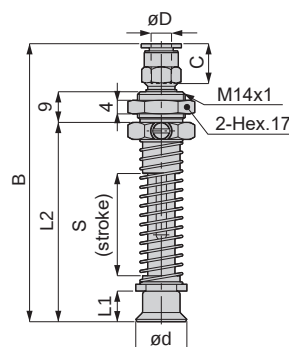
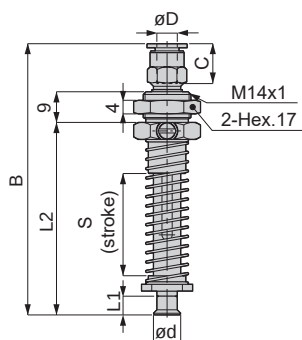
VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C6, 8-□R*-4C/6C

●VSP-C10-□R*-4C/6C

●VSP-C15-□R(A)*-4C/6C



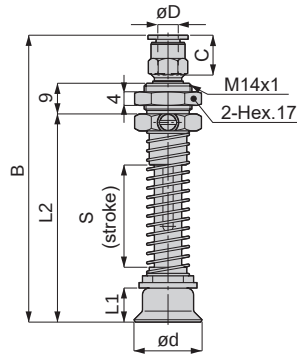
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C6-20R*-4C	6	4	67	7	45	11.2	20	1.5 to 4.9	43
VSP-C6-20R*-6C		6	68.3			11.9			44
VSP-C6-30R*-4C		4	80		58	11.2	30	1.1 to 4.8	48
VSP-C6-30R*-6C		6	81.3			11.9			49
VSP-C6-40R*-4C		4	93		71	11.2	40	1.0 to 4.5	54
VSP-C6-40R*-6C		6	94.3			11.9			55
VSP-C6-50R*-4C	8	4	106	5.5	84	11.2	50	0.9 to 4.5	59
VSP-C6-50R*-6C		6	107.3			11.9			60
VSP-C8-20R*-4C		4	65.5		43.5	11.2	20	1.5 to 4.9	43
VSP-C8-20R*-6C		6	66.8			11.9			44
VSP-C8-30R*-4C		4	78.5		56.5	11.2	30	1.1 to 4.8	48
VSP-C8-30R*-6C		6	79.8			11.9			49
VSP-C8-40R*-4C	10	4	91.5	8	69.5	11.2	40	1.0 to 4.5	54
VSP-C8-40R*-6C		6	92.8			11.9			55
VSP-C8-50R*-4C		4	104.5		82.5	11.2	50	0.9 to 4.5	59
VSP-C8-50R*-6C		6	105.8			11.9			60
VSP-C10-20R*-4C	15	4	66.5	9 (10)	44.5	11.2	20	1.5 to 4.9	43
VSP-C10-20R*-6C		6	67.8			11.9			44
VSP-C10-30R*-4C		4	79.5		57.5	11.2	30	1.1 to 4.8	48
VSP-C10-30R*-6C		6	80.8			11.9			49
VSP-C10-40R*-4C		4	92.5		70.5	11.2	40	1.0 to 4.5	54
VSP-C10-40R*-6C		6	93.8			11.9			55
VSP-C10-50R*-4C	15	4	105.5	9 (10)	83.5	11.2	50	0.9 to 4.5	59
VSP-C10-50R*-6C		6	106.8			11.9			60
VSP-C15-20R(A)*-4C		4	67.5 (68.5)		45.5 (46.5)	11.2	20	1.5 to 4.9	43 (43)
VSP-C15-20R(A)*-6C		6	68.8 (69.8)			11.9			44 (44)
VSP-C15-30R(A)*-4C		4	80.5 (81.5)		58.5 (59.5)	11.2	30	1.1 to 4.8	48 (48)
VSP-C15-30R(A)*-6C		6	81.8 (82.8)			11.9			49 (49)
VSP-C15-40R(A)*-4C	15	4	93.5 (94.5)	9 (10)	71.5 (72.5)	11.2	40	1.0 to 4.5	54 (54)
VSP-C15-40R(A)*-6C		6	94.8 (95.8)			11.9			55 (55)
VSP-C15-50R(A)*-4C		4	106.5 (107.5)		84.5 (85.5)	11.2	50	0.9 to 4.5	59 (59)
VSP-C15-50R(A)*-6C		6	107.8 (108.8)			11.9			60 (60)

*1: Dimensions in () are of the deep pad.

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C20 to 50-□R(A)*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C20-20R(A)*-4C	20	4	70 (71)	10 (11)	48 (49)	11.2	20	1.5 to 4.9	49 (50)
VSP-C20-20R(A)*-6C		6	71.3 (72.3)			11.9			50 (51)
VSP-C20-30R(A)*-4C		4	83 (84)		61 (62)	11.2	30	1.1 to 4.8	54 (55)
VSP-C20-30R(A)*-6C		6	84.3 (85.3)			11.9			55 (56)
VSP-C20-40R(A)*-4C		4	96 (97)		74 (75)	11.2	40	1.0 to 4.5	59 (60)
VSP-C20-40R(A)*-6C		6	97.3 (98.3)			11.9			60 (61)
VSP-C20-50R(A)*-4C		4	109 (110)		87 (88)	11.2	50	0.9 to 4.5	64 (65)
VSP-C20-50R(A)*-6C		6	110.3 (111.3)			11.9			65 (66)
VSP-C25-20R(A)*-4C	25	4	71 (72)	11 (12)	49 (50)	11.2	20	1.5 to 4.9	49 (50)
VSP-C25-20R(A)*-6C		6	72.3 (73.3)			11.9			50 (51)
VSP-C25-30R(A)*-4C		4	84 (85)		62 (63)	11.2	30	1.1 to 4.8	54 (55)
VSP-C25-30R(A)*-6C		6	85.3 (86.3)			11.9			55 (56)
VSP-C25-40R(A)*-4C		4	97 (98)		75 (76)	11.2	40	1.0 to 4.5	60 (61)
VSP-C25-40R(A)*-6C		6	98.3 (99.3)			11.9			61 (62)
VSP-C25-50R(A)*-4C		4	110 (111)		88 (89)	11.2	50	0.9 to 4.5	65 (66)
VSP-C25-50R(A)*-6C		6	111.3 (112.3)			11.9			66 (67)
VSP-C30-20R(A)*-4C	30	4	71 (74)	11 (14)	49 (52)	11.2	20	1.5 to 4.9	51 (52)
VSP-C30-20R(A)*-6C		6	72.3 (75.3)			11.9			52 (53)
VSP-C30-30R(A)*-4C		4	84 (87)		62 (65)	11.2	30	1.1 to 4.8	56 (57)
VSP-C30-30R(A)*-6C		6	85.3 (88.3)			11.9			57 (58)
VSP-C30-40R(A)*-4C		4	97 (100)		75 (78)	11.2	40	1.0 to 4.5	62 (61)
VSP-C30-40R(A)*-6C		6	98.3 (101.3)			11.9			63 (62)
VSP-C30-50R(A)*-4C		4	110 (113)		88 (91)	11.2	50	0.9 to 4.5	67 (68)
VSP-C30-50R(A)*-6C		6	111.3 (114.3)			11.9			68 (69)
VSP-C40-20R(A)*-4C	40	4	74 (77.5)	14 (17.5)	52 (55.5)	11.2	20	1.5 to 4.9	58 (59)
VSP-C40-20R(A)*-6C		6	75.3 (78.8)			11.9			59 (60)
VSP-C40-30R(A)*-4C		4	87 (90.5)		65 (68.5)	11.2	30	1.1 to 4.8	64 (65)
VSP-C40-30R(A)*-6C		6	88.3 (91.8)			11.9			65 (66)
VSP-C40-40R(A)*-4C		4	100 (103.5)		78 (81.5)	11.2	40	1.0 to 4.5	69 (70)
VSP-C40-40R(A)*-6C		6	101.3 (104.8)			11.9			70 (71)
VSP-C40-50R(A)*-4C		4	113 (116.5)		91 (94.5)	11.2	50	0.9 to 4.5	74 (75)
VSP-C40-50R(A)*-6C		6	114.3 (117.8)			11.9			75 (76)
VSP-C50-20R(A)*-4C	50	4	75 (78)	15 (18)	53 (56)	11.2	20	1.5 to 4.9	64 (65)
VSP-C50-20R(A)*-6C		6	76.3 (79.3)			11.9			65 (67)
VSP-C50-30R(A)*-4C		4	88 (91)		66 (69)	11.2	30	1.1 to 4.8	69 (71)
VSP-C50-30R(A)*-6C		6	89.3 (92.3)			11.9			70 (72)
VSP-C50-40R(A)*-4C		4	101 (104)		79 (82)	11.2	40	1.0 to 4.5	75 (76)
VSP-C50-40R(A)*-6C		6	102.3 (105.3)			11.9			76 (77)
VSP-C50-50R(A)*-4C		4	114 (117)		92 (95)	11.2	50	0.9 to 4.5	80 (81)
VSP-C50-50R(A)*-6C		6	115.3 (118.3)			11.9			81 (82)

*1: Dimensions in () are of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

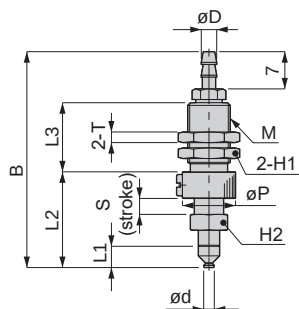
Flat

Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

- VSP-C1 to 4R*-4T/6T
- VSP-C1 to 4-□R*-4T/6T



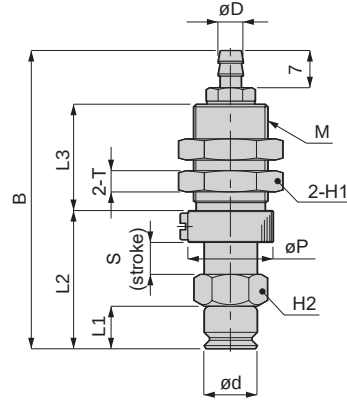
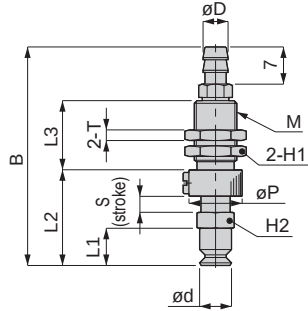
Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	H1 HEX	H2 HEX	T	Stroke S	Spring force (N)	Weight (g)
VSP-C1R*-4T	1	2.5	M8x0.75	40.6	4	18	13	10	10	7	2	3	0.9 to 1.9	8
VSP-C1R*-6T		4												
VSP-C1-10R*-4T		2.5	M12x1	54.6		27	17.5	13	14	8	4	10	0.6 to 1.7	19
VSP-C1-10R*-6T		4												
VSP-C1-15R*-4T		2.5		65.6		32	23.5					15	0.4 to 1.7	22
VSP-C1-15R*-6T		4												
VSP-C1-20R*-4T		2.5		75.6		37	28.5					20	0.3 to 1.8	25
VSP-C1-20R*-6T		4												
VSP-C2R*-4T	2	2.5	M8x0.75	40.6	4	18	13	10	10	7	2	3	0.9 to 1.9	8
VSP-C2R*-6T		4												
VSP-C2-10R*-4T		2.5	M12x1	54.6		27	17.5	13	14	8	4	10	0.6 to 1.7	19
VSP-C2-10R*-6T		4												
VSP-C2-15R*-4T		2.5		65.6		32	23.5					15	0.4 to 1.7	22
VSP-C2-15R*-6T		4												
VSP-C2-20R*-4T		2.5		75.6		37	28.5					20	0.3 to 1.8	25
VSP-C2-20R*-6T		4												
VSP-C3R*-4T	3	2.5	M8x0.75	40.6	4	18	13	10	10	7	2	3	0.9 to 1.9	8
VSP-C3R*-6T		4												
VSP-C3-10R*-4T		2.5	M12x1	54.6		27	17.5	13	14	8	4	10	0.6 to 1.7	19
VSP-C3-10R*-6T		4												
VSP-C3-15R*-4T		2.5		65.6		32	23.5					15	0.4 to 1.7	22
VSP-C3-15R*-6T		4												
VSP-C3-20R*-4T		2.5		75.6		37	28.5					20	0.3 to 1.8	25
VSP-C3-20R*-6T		4												
VSP-C4R*-4T	4	2.5	M8x0.75	40.6	4	18	13	10	10	7	2	3	0.9 to 1.9	8
VSP-C4R*-6T		4												
VSP-C4-10R*-4T		2.5	M12x1	54.6		27	17.5	13	14	8	4	10	0.6 to 1.7	19
VSP-C4-10R*-6T		4												
VSP-C4-15R*-4T		2.5		65.6		32	23.5					15	0.4 to 1.7	22
VSP-C4-15R*-6T		4												
VSP-C4-20R*-4T		2.5		75.6		37	28.5					20	0.3 to 1.8	25
VSP-C4-20R*-6T		4												

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

- VSP-C6, 8R*-4T/6T
- VSP-C6, 8-□R*-4T/6T

- VSP-C10R*-4T/6T
- VSP-C10-□R*-4T/6T
- VSP-C15R(A)*-4T/6T
- VSP-C15-□R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	H1 HEX	H2 HEX	T	Stroke S	Spring force (N)	Weight (g)					
VSP-C6R*-4T	6	2.5	M8x0.75	40.6	7	18	13	10	10	7	2	3	0.9 to 1.9	8					
VSP-C6R*-6T		4	M12x1	54.1		26.5	17.5	13	14	8	4	10	0.8 to 2.7	19					
VSP-C6-10R*-4T		2.5		65.1		31.5	23.5					15	0.7 to 3.0	22					
VSP-C6-10R*-6T		4		75.1		36.5	28.5					20	0.9 to 3.4	24					
VSP-C6-15R*-4T		2.5		M12x1		39.1	16.5					13	10	10	7	2	3	0.9 to 1.9	8
VSP-C6-15R*-6T		4				52.6	25					17.5	13	14	8	4	10	0.8 to 2.7	19
VSP-C6-20R*-4T		2.5				63.6	30					23.5					15	0.7 to 3.0	22
VSP-C6-20R*-6T		4	73.6			35	28.5	20	0.9 to 3.4	24									
VSP-C8R*-4T	2.5	M12x1	56.1	8	26	20	16	17	12	4	6	4.0 to 7.1					34		
VSP-C8R*-6T	4		60.6		30.5						10	2.0 to 5.2	35						
VSP-C8-10R*-4T	2.5		70.6		35.5	25					15	2.0 to 5.9	40						
VSP-C8-10R*-6T	4		86.6		42.5	34					20	1.1 to 4.8	47						
VSP-C8-15R*-4T	2.5		M14x1		57.1 (58.1)	9 (10)					27 (28)	20	16	17	12	4	6	4.0 to 7.1	34 (34)
VSP-C8-15R*-6T	4				61.6 (62.6)						31.5 (32.5)						10	2.0 to 5.2	35 (35)
VSP-C8-20R*-4T	2.5				71.6 (72.6)						36.5 (37.5)	25					15	2.0 to 5.9	40 (40)
VSP-C8-20R*-6T	4				87.6 (88.6)						43.5 (44.5)	34					20	1.1 to 4.8	48 (48)
VSP-C10R*-4T	2.5	M14x1		56.1	8		26	20	16	17	12	4					6	4.0 to 7.1	34
VSP-C10R*-6T	4			60.6			30.5										10	2.0 to 5.2	35
VSP-C10-10R*-4T	2.5		70.6	35.5		25	15	2.0 to 5.9					40						
VSP-C10-10R*-6T	4		86.6	42.5		34	20	1.1 to 4.8					47						
VSP-C10-15R*-4T	2.5		M14x1	57.1 (58.1)		9 (10)	27 (28)	20					16	17	12	4	6	4.0 to 7.1	34 (34)
VSP-C10-15R*-6T	4			61.6 (62.6)			31.5 (32.5)										10	2.0 to 5.2	35 (35)
VSP-C10-20R*-4T	2.5			71.6 (72.6)			36.5 (37.5)	25									15	2.0 to 5.9	40 (40)
VSP-C10-20R*-6T	4			87.6 (88.6)			43.5 (44.5)	34									20	1.1 to 4.8	48 (48)
VSP-C15R(A)*-4T	2.5	M14x1		57.1 (58.1)	9 (10)		27 (28)	20	16	17	12	4					6	4.0 to 7.1	34 (34)
VSP-C15R(A)*-6T	4			61.6 (62.6)			31.5 (32.5)										10	2.0 to 5.2	35 (35)
VSP-C15-10R(A)*-4T	2.5		71.6 (72.6)	36.5 (37.5)		25	15	2.0 to 5.9					40 (40)						
VSP-C15-10R(A)*-6T	4		87.6 (88.6)	43.5 (44.5)		34	20	1.1 to 4.8					48 (48)						
VSP-C15-15R(A)*-4T	2.5		M14x1	57.1 (58.1)		9 (10)	27 (28)	20					16	17	12	4	6	4.0 to 7.1	34 (34)
VSP-C15-15R(A)*-6T	4			61.6 (62.6)			31.5 (32.5)										10	2.0 to 5.2	35 (35)
VSP-C15-20R(A)*-4T	2.5			71.6 (72.6)			36.5 (37.5)	25									15	2.0 to 5.9	40 (40)
VSP-C15-20R(A)*-6T	4			87.6 (88.6)			43.5 (44.5)	34									20	1.1 to 4.8	48 (48)

*1: Dimensions in () are of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-Stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

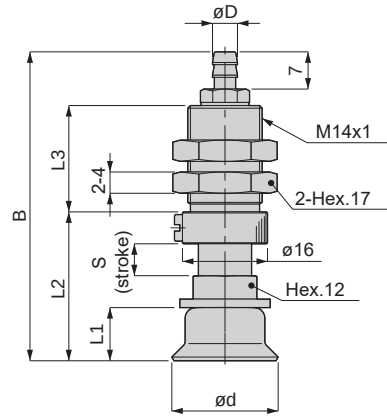
Flat

Suction mark
prevention

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

- VSP-C20 to 50R(A)*-4T/6T
- VSP-C20 to 50-□R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C20R(A)*-4T	20	2.5	58.1 (59.1)	10 (11)	28 (29)	20	6	7.0 to 12.6	38 (39)
VSP-C20R(A)*-6T		4							
VSP-C20-10R(A)*-4T		2.5	64.1 (65.1)		34 (35)	25	10	3.3 to 10.0	40 (41)
VSP-C20-10R(A)*-6T		4							
VSP-C20-15R(A)*-4T		2.5	74.1 (75.1)		39 (40)		15	3.3 to 10.4	45 (46)
VSP-C20-15R(A)*-6T		4							
VSP-C20-20R(A)*-4T	25	2.5	90.1 (91.1)	11 (12)	46 (47)	34	20	2.0 to 8.7	52 (52)
VSP-C20-20R(A)*-6T		4							
VSP-C25R(A)*-4T		2.5	59.1 (60.1)		29 (30)	20	6	7.0 to 12.6	39 (40)
VSP-C25R(A)*-6T		4							
VSP-C25-10R(A)*-4T		2.5	65.1 (66.1)		35 (36)		10	3.3 to 10.0	43 (44)
VSP-C25-10R(A)*-6T		4							
VSP-C25-15R(A)*-4T	30	2.5	75.1 (76.1)	11 (14)	40 (41)	25	15	3.3 to 10.4	48 (49)
VSP-C25-15R(A)*-6T		4							
VSP-C25-20R(A)*-4T		2.5	91.1 (92.1)		47 (48)	34	20	2.0 to 8.7	54 (55)
VSP-C25-20R(A)*-6T		4							
VSP-C30R(A)*-4T		2.5	59.1 (62.1)		29 (32)	20	6	7.0 to 12.6	40 (41)
VSP-C30R(A)*-6T		4							
VSP-C30-10R(A)*-4T	40	2.5	65.1 (68.1)	14 (17.5)	35 (38)	25	10	3.3 to 10.0	43 (44)
VSP-C30-10R(A)*-6T		4							
VSP-C30-15R(A)*-4T		2.5	75.1 (78.1)		40 (43)		15	3.3 to 10.4	48 (49)
VSP-C30-15R(A)*-6T		4							
VSP-C30-20R(A)*-4T		2.5	91.1 (94.1)		47 (50)	34	20	2.0 to 8.7	54 (55)
VSP-C30-20R(A)*-6T		4							
VSP-C40R(A)*-4T	50	2.5	62.1 (65.6)	15 (18)	32 (35.5)	20	6	7.0 to 12.6	47 (48)
VSP-C40R(A)*-6T		4							
VSP-C40-10R(A)*-4T		2.5	68.1 (71.6)		38 (41.5)		10	3.3 to 10.0	50 (51)
VSP-C40-10R(A)*-6T		4							
VSP-C40-15R(A)*-4T		2.5	78.1 (81.6)		43 (46.5)	25	15	3.3 to 10.4	55 (56)
VSP-C40-15R(A)*-6T		4							
VSP-C40-20R(A)*-4T	50	2.5	94.1 (97.6)	15 (18)	50 (53.5)	34	20	2.0 to 8.7	61 (62)
VSP-C40-20R(A)*-6T		4							
VSP-C50R(A)*-4T		2.5	63.1 (66.1)		33 (36)	20	6	7.0 to 12.6	53 (55)
VSP-C50R(A)*-6T		4							
VSP-C50-10R(A)*-4T		2.5	69.1 (72.1)		39 (42)		10	3.3 to 10.0	56 (57)
VSP-C50-10R(A)*-6T		4							
VSP-C50-15R(A)*-4T	50	2.5	79.1 (82.1)	15 (18)	44 (47)	25	15	3.3 to 10.4	61 (62)
VSP-C50-15R(A)*-6T		4							
VSP-C50-20R(A)*-4T		2.5	95.1 (98.1)		51 (54)	34	20	2.0 to 8.7	67 (69)
VSP-C50-20R(A)*-6T		4							

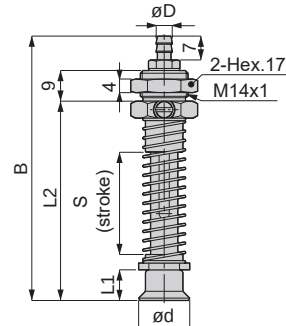
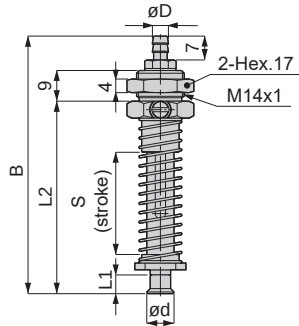
*1: Dimensions in () are of the deep pad.

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C6, 8-□R*-4TC/6TC

●VSP-C10-□R*-4TC/6TC

●VSP-C15-□R(A)*-4TC/6TC



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C6-20R*-4TC	6	2.5	64.1	7	45	20	1.5 to 4.9	42
VSP-C6-20R*-6TC		4						
VSP-C6-30R*-4TC		2.5	77.1		58	30	1.1 to 4.8	47
VSP-C6-30R*-6TC		4						
VSP-C6-40R*-4TC		2.5	90.1		71	40	1.0 to 4.5	52
VSP-C6-40R*-6TC		4						
VSP-C6-50R*-4TC		2.5	103.1		84	50	0.9 to 4.5	58
VSP-C6-50R*-6TC		4						
VSP-C8-20R*-4TC	8	2.5	62.6	5.5	43.5	20	1.5 to 4.9	42
VSP-C8-20R*-6TC		4						
VSP-C8-30R*-4TC		2.5	75.6		56.5	30	1.1 to 4.8	47
VSP-C8-30R*-6TC		4						
VSP-C8-40R*-4TC		2.5	88.6		69.5	40	1.0 to 4.5	52
VSP-C8-40R*-6TC		4						
VSP-C8-50R*-4TC		2.5	101.6		82.5	50	0.9 to 4.5	58
VSP-C8-50R*-6TC		4						
VSP-C10-20R*-4TC	10	2.5	63.6	8	44.5	20	1.5 to 4.9	43
VSP-C10-20R*-6TC		4						
VSP-C10-30R*-4TC		2.5	76.6		57.5	30	1.1 to 4.8	48
VSP-C10-30R*-6TC		4						
VSP-C10-40R*-4TC		2.5	89.6		70.5	40	1.0 to 4.5	53
VSP-C10-40R*-6TC		4						
VSP-C10-50R*-4TC		2.5	102.6		83.5	50	0.9 to 4.5	59
VSP-C10-50R*-6TC		4						
VSP-C15-20R(A)*-4TC	15	2.5	64.6 (65.6)	9 (10)	45.5 (46.5)	20	1.5 to 4.9	43 (43)
VSP-C15-20R(A)*-6TC		4						
VSP-C15-30R(A)*-4TC		2.5	77.6 (78.6)		58.5 (59.5)	30	1.1 to 4.8	48 (48)
VSP-C15-30R(A)*-6TC		4						
VSP-C15-40R(A)*-4TC		2.5	90.6 (91.6)		71.5 (72.5)	40	1.0 to 4.5	53 (53)
VSP-C15-40R(A)*-6TC		4						
VSP-C15-50R(A)*-4TC		2.5	103.6 (104.6)		84.5 (85.5)	50	0.9 to 4.5	59 (59)
VSP-C15-50R(A)*-6TC		4						

*1: Dimensions in () are of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

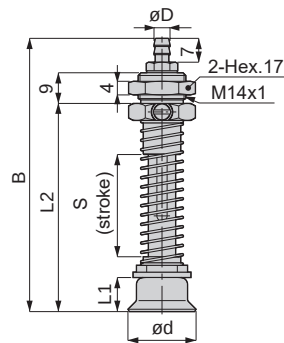
Flat

Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C20 to 50-□R(A)*-/6TC



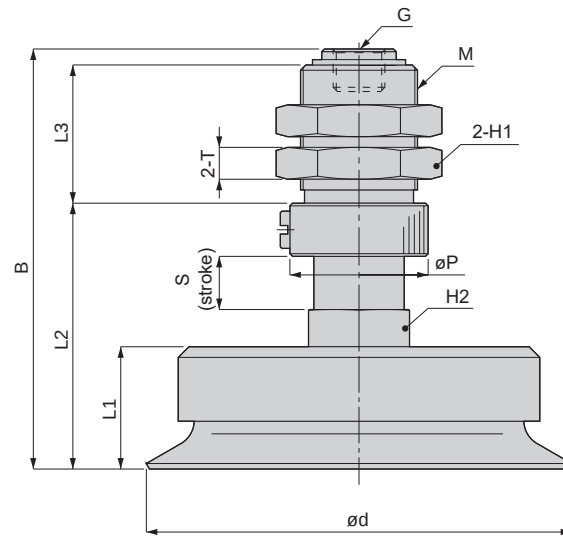
Unit: mm

	Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
General/Deep/Compact	VSP-C20-20R(A)*-4TC	20	2.5	67.1 (68.1)	10 (11)	48 (49)	20	1.5 to 4.9	48
	VSP-C20-20R(A)*-6TC		4						
	VSP-C20-30R(A)*-4TC		2.5			61 (62)	30	1.1 to 4.8	53
	VSP-C20-30R(A)*-6TC		4						
	VSP-C20-40R(A)*-4TC		2.5			74 (75)	40	1.0 to 4.5	58
	VSP-C20-40R(A)*-6TC		4						
	VSP-C20-50R(A)*-4TC	25	2.5	106.1 (107.1)	11 (12)	87 (88)	50	0.9 to 4.5	63
	VSP-C20-50R(A)*-6TC		4						
	VSP-C25-20R(A)*-4TC		2.5			49 (50)	20	1.5 to 4.9	48
	VSP-C25-20R(A)*-6TC		4						
	VSP-C25-30R(A)*-4TC		2.5			62 (63)	30	1.1 to 4.8	53
	VSP-C25-30R(A)*-6TC		4						
	VSP-C25-40R(A)*-4TC		2.5			75 (76)	40	1.0 to 4.5	58
	VSP-C25-40R(A)*-6TC		4						
	VSP-C25-50R(A)*-4TC		2.5			88 (89)	50	0.9 to 4.5	64
	VSP-C25-50R(A)*-6TC		4						
	VSP-C30-20R(A)*-4TC	30	2.5	68.1 (71.1)	11 (14)	49 (52)	20	1.5 to 4.9	49
	VSP-C30-20R(A)*-6TC		4						
	VSP-C30-30R(A)*-4TC		2.5			62 (65)	30	1.1 to 4.8	54
	VSP-C30-30R(A)*-6TC		4						
	VSP-C30-40R(A)*-4TC		2.5			75 (78)	40	1.0 to 4.5	59
	VSP-C30-40R(A)*-6TC		4						
	VSP-C30-50R(A)*-4TC	40	2.5	107.1 (110.1)	14 (17.5)	88 (91)	50	0.9 to 4.5	64
	VSP-C30-50R(A)*-6TC		4						
	VSP-C40-20R(A)*-4TC		2.5			52 (55.5)	20	1.5 to 4.9	57 (58)
	VSP-C40-20R(A)*-6TC		4						
	VSP-C40-30R(A)*-4TC		2.5			65 (68.5)	30	1.1 to 4.8	62 (63)
	VSP-C40-30R(A)*-6TC		4						
	VSP-C40-40R(A)*-4TC		2.5			78 (81.5)	40	1.0 to 4.5	68 (69)
	VSP-C40-40R(A)*-6TC		4						
	VSP-C40-50R(A)*-4TC	50	2.5	110.1 (113.6)	15 (18)	91 (94.5)	50	0.9 to 4.5	73 (74)
	VSP-C40-50R(A)*-6TC		4						
	VSP-C50-20R(A)*-4TC		2.5			53 (56)	20	1.5 to 4.9	63 (65)
	VSP-C50-20R(A)*-6TC		4						
	VSP-C50-30R(A)*-4TC		2.5			66 (69)	30	1.1 to 4.8	68 (70)
	VSP-C50-30R(A)*-6TC		4						
	VSP-C50-40R(A)*-4TC	50	2.5	98.1 (101.1)	15 (18)	79 (82)	40	1.0 to 4.5	73 (75)
	VSP-C50-40R(A)*-6TC		4						
	VSP-C50-50R(A)*-4TC		2.5			92 (95)	50	0.9 to 4.5	79 (80)
	VSP-C50-50R(A)*-6TC		4						

*1: Dimensions in () are of the deep pad.

Dimensions (buffer, vacuum outlet top VSP-C, female thread)

- VSP-C60 to 100R(A)*-6A
- VSP-C150, 200R*-8A



Unit: mm

Model No.	Pad diameter ød	Vacuum outlet size G	Mounting screw M	B	L1	L2	L3	øP	H1 HEX	H2 HEX	T	Stroke S	Spring force (N)	Weight (g)
VSP-C60R(A)*-6A	60	G1/8	M22x1	76.6 (83.6)	18 (25)	47.6 (54.6)	26	26	27	19	6	10	10.1 to 15.8	161 (161)
VSP-C80R(A)*-6A	80	G1/8	M22x1	79 (89)	23 (33)	50 (60)	26	26	27	19	6	10	10.1 to 15.8	245 (254)
VSP-C100R(A)*-6A	100	G1/8	M22x1	81 (90)	25 (34)	52 (61)	26	26	27	19	6	10	10.1 to 15.8	335 (341)
VSP-C150R*-8A	150	G1/4	M30x2	164	45	112.1	48	35	36	30	10	20.1	14.0 to 25.5	1196
VSP-C200R*-8A	200	G1/4	M30x2	169	50	117.1	48	35	36	30	10	20.1	14.0 to 25.5	1675

*1: Dimensions in () are of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

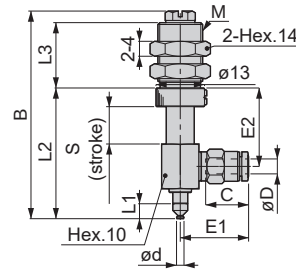
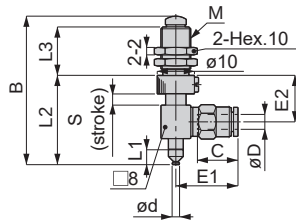
Suction mark
prevention

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

●VSP-D1 to 4R*-2/4/6

●VSP-D1 to 4□R*-2/4/6



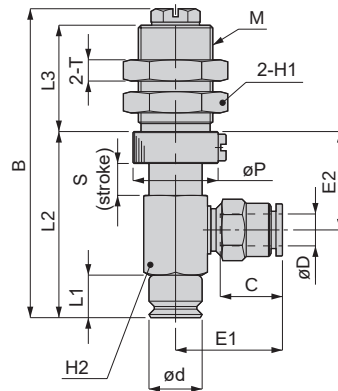
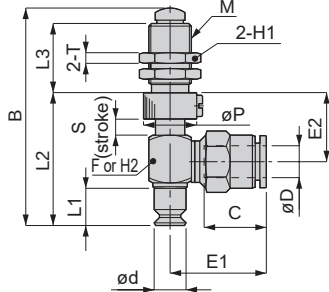
Unit: mm

Model No.	Pad diameter ød	Bore size ød	Mounting screw M	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D1R*-2	1	1.8	M8x0.75	40	4	24	13	8.4	12.7	12.5	3	0.9 to 1.9	13
VSP-D1R*-4		4						11.2	16.8				14
VSP-D1R*-6		6						11.9	18.6				15
VSP-D1-10R*-2		1.8	M12x1	55.6		35	17.5	8.4	13.7	21	10	0.6 to 1.7	29
VSP-D1-10R*-4		4						11.2	17.8				30
VSP-D1-10R*-6		6						11.9	19.1				31
VSP-D1-15R*-2		1.8				40	23.5	8.4	13.7	26	15	0.4 to 1.7	33
VSP-D1-15R*-4		4						11.2	17.8				34
VSP-D1-15R*-6		6						11.9	19.1				35
VSP-D1-20R*-2		1.8	76.6	45		28.5	8.4	13.7	31	20	0.3 to 1.8	36	
VSP-D1-20R*-4		4					11.2	17.8				37	
VSP-D1-20R*-6		6					11.9	19.1				38	
VSP-D2R*-2	2	1.8	M8x0.75	40	4	24	13	8.4	12.7	12.5	3	0.9 to 1.9	13
VSP-D2R*-4		4						11.2	16.8				14
VSP-D2R*-6		6						11.9	18.6				15
VSP-D2-10R*-2		1.8	M12x1	55.6		35	17.5	8.4	13.7	21	10	0.6 to 1.7	29
VSP-D2-10R*-4		4						11.2	17.8				30
VSP-D2-10R*-6		6						11.9	19.1				31
VSP-D2-15R*-2		1.8				40	23.5	8.4	13.7	26	15	0.4 to 1.7	33
VSP-D2-15R*-4		4						11.2	17.8				34
VSP-D2-15R*-6		6						11.9	19.1				35
VSP-D2-20R*-2		1.8	76.6	45		28.5	8.4	13.7	31	20	0.3 to 1.8	36	
VSP-D2-20R*-4		4					11.2	17.8				37	
VSP-D2-20R*-6		6					11.9	19.1				38	
VSP-D3R*-2	3	1.8	M8x0.75	40	4	24	13	8.4	12.7	12.5	3	0.9 to 1.9	13
VSP-D3R*-4		4						11.2	16.8				14
VSP-D3R*-6		6						11.9	18.6				15
VSP-D3-10R*-2		1.8	M12x1	55.6		35	17.5	8.4	13.7	21	10	0.6 to 1.7	29
VSP-D3-10R*-4		4						11.2	17.8				30
VSP-D3-10R*-6		6						11.9	19.1				31
VSP-D3-15R*-2		1.8				40	23.5	8.4	13.7	26	15	0.4 to 1.7	33
VSP-D3-15R*-4		4						11.2	17.8				34
VSP-D3-15R*-6		6						11.9	19.1				35
VSP-D3-20R*-2		1.8	76.6	45		28.5	8.4	13.7	31	20	0.3 to 1.8	36	
VSP-D3-20R*-4		4					11.2	17.8				37	
VSP-D3-20R*-6		6					11.9	19.1				38	
VSP-D4R*-2	4	1.8	M8x0.75	40	4	24	13	8.4	12.7	12.5	3	0.9 to 1.9	13
VSP-D4R*-4		4						11.2	16.8				14
VSP-D4R*-6		6						11.9	18.6				15
VSP-D4-10R*-2		1.8	M12x1	55.6		35	17.5	8.4	13.7	21	10	0.6 to 1.7	29
VSP-D4-10R*-4		4						11.2	17.8				30
VSP-D4-10R*-6		6						11.9	19.1				31
VSP-D4-15R*-2		1.8				40	23.5	8.4	13.7	26	15	0.4 to 1.7	33
VSP-D4-15R*-4		4						11.2	17.8				34
VSP-D4-15R*-6		6						11.9	19.1				35
VSP-D4-20R*-2		1.8	76.6	45		28.5	8.4	13.7	31	20	0.3 to 1.8	36	
VSP-D4-20R*-4		4					11.2	17.8				37	
VSP-D4-20R*-6		6					11.9	19.1				38	

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

- VSP-D6, 8R*-2/4/6
- VSP-D6, 8-□R*-2/4/6

- VSP-D10R*-4/6
- VSP-D10-□R*-4/6
- VSP-D15R(A)*-4/6
- VSP-D15-□R(A)*-4/6



Unit: mm

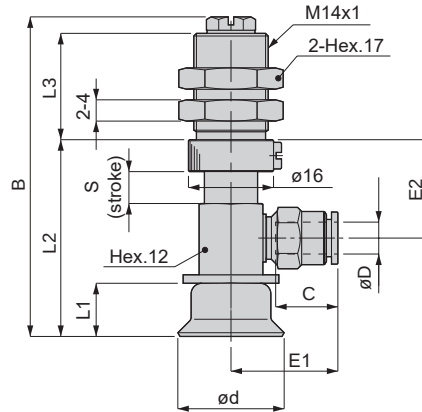
Model No.	Pad diameter øD	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Tube end C	E1	E2	Hexagon H1	Hexagon H2	□F	T	Stroke S	Spring force (N)	Weight (g)					
VSP-D6R*-2	6	1.8	M8x0.75	41	7	25	13	10	8.4	12.7	13	10	-	8	2	3	0.9 to 1.9	13					
VSP-D6R*-4		4							11.2	16.8								14					
VSP-D6R*-6		6							11.9	18.6								15					
VSP-D6-10R*-2		1.8	M12x1	56.1		35.5	17.5	13	8.4	14.7	21	14	12	-	4	10	0.6 to 1.7	33					
VSP-D6-10R*-4		4							11.2	18.8								34					
VSP-D6-10R*-6		6							11.9	20.1								35					
VSP-D6-15R*-2		1.8		67.1		40.5	23.5	13	8.4	14.7	26	14	12	-	4	15	0.4 to 1.7	37					
VSP-D6-15R*-4		4							11.2	18.8								38					
VSP-D6-15R*-6		6							11.9	20.1								39					
VSP-D6-20R*-2		1.8		77.1		45.5	28.5	13	8.4	14.7	31	14	12	-	4	20	0.3 to 1.8	40					
VSP-D6-20R*-4		4							11.2	18.8								41					
VSP-D6-20R*-6		6							11.9	20.1								42					
VSP-D8R*-2	8	1.8	M8x0.75	39.5	5.5	23.5	13	10	8.4	12.7	13	10	-	8	2	3	0.9 to 1.9	13					
VSP-D8R*-4		4							11.2	16.8								14					
VSP-D8R*-6		6							11.9	18.6								15					
VSP-D8-10R*-2		1.8	M12x1	54.6		34	17.5	13	8.4	14.7	21	14	12	-	4	10	0.6 to 1.7	33					
VSP-D8-10R*-4		4							11.2	18.8								34					
VSP-D8-10R*-6		6							11.9	20.1								35					
VSP-D8-15R*-2		1.8		65.6		39	23.5	13	8.4	14.7	26	14	12	-	4	15	0.4 to 1.7	37					
VSP-D8-15R*-4		4							11.2	18.8								38					
VSP-D8-15R*-6		6							11.9	20.1								39					
VSP-D8-20R*-2		1.8		75.6		44	28.5	13	8.4	14.7	31	14	12	-	4	20	0.3 to 1.8	40					
VSP-D8-20R*-4		4							11.2	18.8								41					
VSP-D8-20R*-6		6							11.9	20.1								42					
VSP-D10R*-4	10	4	M14x1	58.1	8	35	20	16	11.2	18.8	18.5	17	12	-	4	6	4.0 to 7.1	47					
VSP-D10R*-6		6							11.9	20.1								48					
VSP-D10-10R*-4		4		63.1		40	25		11.2	18.8	25					10	2.0 to 5.2	50					
VSP-D10-10R*-6		6							11.9	20.1								51					
VSP-D10-15R*-4		4		73.1		45	25		11.2	18.8	30					15	2.0 to 5.9	56					
VSP-D10-15R*-6		6							11.9	20.1								57					
VSP-D10-20R*-4		4		89.1		52	34		11.2	18.8	37					20	1.1 to 4.8	66					
VSP-D10-20R*-6		6							11.9	20.1								67					
VSP-D15R(A)*-4	15	4	M14x1	59.1 (60.1)	9 (10)	36 (37)	20	16	11.2	18.8	18.5	17	12	-	4	6	4.0 to 7.1	47 (47)					
VSP-D15R(A)*-6		6							11.9	20.1								48 (48)					
VSP-D15-10R(A)*-4		4		64.1 (65.1)		41 (42)	25		11.2	18.8	25					10	2.0 to 5.2	50 (50)					
VSP-D15-10R(A)*-6		6							11.9	20.1								51 (51)					
VSP-D15-15R(A)*-4		4		74.1 (75.1)		46 (47)	25		11.2	18.8	30					15	2.0 to 5.9	56 (56)					
VSP-D15-15R(A)*-6		6							11.9	20.1								57 (57)					
VSP-D15-20R(A)*-4		4		90.1 (91.1)		53 (54)	34		11.2	18.8	37					20	1.1 to 4.8	66 (66)					
VSP-D15-20R(A)*-6		6							11.9	20.1								67 (67)					

*1: Dimensions in () are dimensions of the deep pad.

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

●VSP-D20 to 50R(A)*-4/6



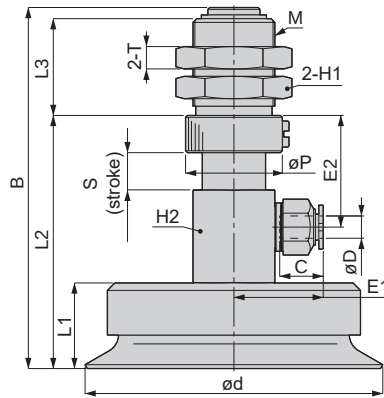
Unit: mm

General/Deep/ Compact	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
Sponge	VSP-D20R(A)*-4	20	4	60.1	10 (11)	37 (38)	20	11.2	18.8	18.5	6	7.0 to 12.6	51 (52)
	VSP-D20R(A)*-6		6	(61.1)				11.9	20.1				52 (53)
	VSP-D20-10R(A)*-4		4	66.1		43 (44)	20	11.2	18.8		10	3.3 to 10.0	54 (55)
	VSP-D20-10R(A)*-6		6	(67.1)				11.9	20.1				55 (56)
Bellows	VSP-D20-15R(A)*-4		4	76.1		48 (49)	25	11.2	18.8	29.5	15	3.3 to 10.4	61 (62)
	VSP-D20-15R(A)*-6		6	(77.1)				11.9	20.1				62 (63)
	VSP-D20-20R(A)*-4		4	92.1		55 (56)	34	11.2	18.8	36.5	20	2.0 to 8.7	71 (72)
	VSP-D20-20R(A)*-6		6	(93.1)				11.9	20.1				72 (73)
Multi-Stage bellows	VSP-D25R(A)*-4	25	4	61.1	11 (12)	38 (39)	20	11.2	18.8	18.5	6	7.0 to 12.6	51 (52)
	VSP-D25R(A)*-6		6	(62.1)				11.9	20.1				52 (53)
	VSP-D25-10R(A)*-4		4	67.1		44 (45)	20	11.2	18.8	24.5	10	3.3 to 10.0	55 (56)
	VSP-D25-10R(A)*-6		6	(68.1)				11.9	20.1				56 (57)
Oval	VSP-D25-15R(A)*-4		4	77.1		49 (50)	25	11.2	18.8	29.5	15	3.3 to 10.4	61 (62)
	VSP-D25-15R(A)*-6		6	(78.1)				11.9	20.1				62 (63)
	VSP-D25-20R(A)*-4		4	93.1		56 (57)	34	11.2	18.8	36.5	20	2.0 to 8.7	71 (72)
	VSP-D25-20R(A)*-6		6	(94.1)				11.9	20.1				72 (73)
Soft	VSP-D30R(A)*-4	30	4	61.1	11 (14)	38 (41)	20	11.2	18.8	18.5	6	7.0 to 12.6	53 (54)
	VSP-D30R(A)*-6		6	(64.1)				11.9	20.1				54 (55)
	VSP-D30-10R(A)*-4		4	67.1		44 (47)	20	11.2	18.8	24.5	10	3.3 to 10.0	57 (58)
	VSP-D30-10R(A)*-6		6	(70.1)				11.9	20.1				58 (59)
Soft bellows	VSP-D30-15R(A)*-4		4	77.1		49 (52)	25	11.2	18.8	29.5	15	3.3 to 10.4	63 (64)
	VSP-D30-15R(A)*-6		6	(80.1)				11.9	20.1				64 (65)
	VSP-D30-20R(A)*-4		4	93.1		56 (59)	34	11.2	18.8	36.5	20	2.0 to 8.7	73 (74)
	VSP-D30-20R(A)*-6		6	(96.1)				11.9	20.1				74 (75)
Anti-slip	VSP-D40R(A)*-4	40	4	64.1	14 (17.5)	41 (44.5)	20	11.2	18.8	18.5	6	7.0 to 12.6	60 (61)
	VSP-D40R(A)*-6		6	(67.6)				11.9	20.1				61 (62)
	VSP-D40-10R(A)*-4		4	70.1		47 (50.5)	20	11.2	18.8	24.5	10	3.3 to 10.0	64 (65)
	VSP-D40-10R(A)*-6		6	(73.6)				11.9	20.1				65 (66)
Thin object	VSP-D40-15R(A)*-4		4	80.1		52 (55.5)	25	11.2	18.8	29.5	15	3.3 to 10.4	70 (71)
	VSP-D40-15R(A)*-6		6	(83.6)				11.9	20.1				71 (72)
	VSP-D40-20R(A)*-4		4	96.1		59 (62.5)	34	11.2	18.8	36.5	20	2.0 to 8.7	80 (81)
	VSP-D40-20R(A)*-6		6	(99.6)				11.9	20.1				81 (82)
Flat	VSP-D50R(A)*-4	50	4	65.1	15 (18)	42 (45)	20	11.2	18.8	18.5	6	7.0 to 12.6	66 (68)
	VSP-D50R(A)*-6		6	(68.1)				11.9	20.1				67 (69)
	VSP-D50-10R(A)*-4		4	71.1		48 (51)	20	11.2	18.8	24.5	10	3.3 to 10.0	70 (71)
	VSP-D50-10R(A)*-6		6	(74.1)				11.9	20.1				71 (72)
Suction mark prevention	VSP-D50-15R(A)*-4		4	81.1		53 (56)	25	11.2	18.8	29.5	15	3.3 to 10.4	80 (81)
	VSP-D50-15R(A)*-6		6	(84.1)				11.9	20.1				81 (82)
	VSP-D50-20R(A)*-4		4	97.1		60 (63)	34	11.2	18.8	36.5	20	2.0 to 8.7	86 (88)
	VSP-D50-20R(A)*-6		6	(100.1)				11.9	20.1				87 (89)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

- VSP-D60 to 100R(A)*-4/6/8
- VSP-D150, 200R*-6/8/10



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Tube end C	E1	E2	Hexagon H1	Hexagon H2	T	Stroke S	Spring force (N)	Weight (g)
VSP-D60R(A)*-4	60	4	M22x1	94.6 (101.6)	18 (25)	65.6 (72.6)	26	26	11.2	21.5	30	27	22	6	10	10.1 to 15.8	252 (251)
VSP-D60R(A)*-6		6							11.9	23.7							253 (252)
VSP-D60R(A)*-8		8							18.2	32.1							258 (257)
VSP-D80R(A)*-4	80	4	M22x1	97 (107)	23 (33)	68 (78)	26	26	11.2	21.5	30	27	22	6	10	10.1 to 15.8	332 (344)
VSP-D80R(A)*-6		6							11.9	23.7							333 (345)
VSP-D80R(A)*-8		8							18.2	32.1							338 (350)
VSP-D100R(A)*-4	100	4	M22x1	99 (108)	25 (34)	70 (79)	26	26	11.2	21.5	30	27	22	6	10	10.1 to 15.8	425 (431)
VSP-D100R(A)*-6		6							11.9	23.7							426 (432)
VSP-D100R(A)*-8		8							18.2	32.1							431 (437)
VSP-D150R*-6	150	6	M30x2	168.3	45	112.1	48	35	17	30.9	42.1	36	30	10	20.1	14.0 to 25.5	1205
VSP-D150R*-8		8							18.2	31.6							1210
VSP-D150R*-10		10							20.7	38.6							1215
VSP-D200R*-6	200	6	M30x2	173.3	50	117.1	48	35	17	30.9	42.1	36	30	10	20.1	14.0 to 25.5	1684
VSP-D200R*-8		8							18.2	31.6							1689
VSP-D200R*-10		10							20.7	38.6							1694

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

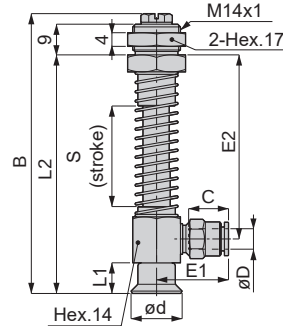
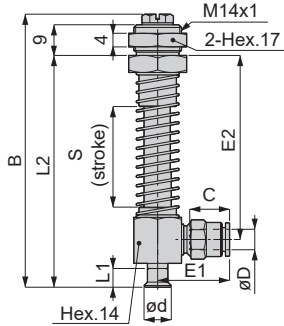
VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D6, 8-□R*-4C/6C

●VSP-D10-□R*-4C/6C

●VSP-D15-□R(A)*-4C/6C



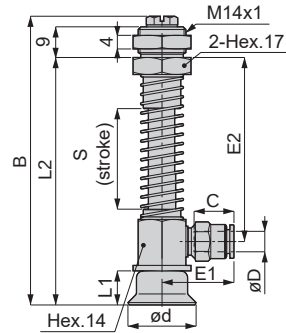
Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D6-20R*-4C	6	4	67.1	7	55	11.2	19.8	40.5	20	1.5 to 4.9	62
	VSP-D6-20R*-6C		11.9				21.1	63				
Sponge	VSP-D6-30R*-4C		4	80.1		68	11.2	19.8	53.5	30	1.1 to 4.8	68
	VSP-D6-30R*-6C		6				11.9	21.1				69
	VSP-D6-40R*-4C		4	93.1		81	11.2	19.8	66.5	40	1.0 to 4.5	75
	VSP-D6-40R*-6C		6				11.9	21.1				76
Bellows	VSP-D6-50R*-4C		4	106.1		94	11.2	19.8	79.5	50	0.9 to 4.5	82
	VSP-D6-50R*-6C		6				11.9	21.1				83
Multi-Stage bellows	VSP-D8-20R*-4C	8	4	65.6	5.5	53.5	11.2	19.8	40.5	20	1.5 to 4.9	62
	VSP-D8-20R*-6C		6				11.9	21.1				63
	VSP-D8-30R*-4C		4	78.6		56.5	11.2	19.8	53.5	30	1.1 to 4.8	68
	VSP-D8-30R*-6C		6				11.9	21.1				69
Oval	VSP-D8-40R*-4C		4	91.6		69.5	11.2	19.8	66.5	40	1.0 to 4.5	75
	VSP-D8-40R*-6C		6				11.9	21.1				76
	VSP-D8-50R*-4C		4	104.6		82.5	11.2	19.8	79.5	50	0.9 to 4.5	82
	VSP-D8-50R*-6C		6				11.9	21.1				83
Soft	VSP-D10-20R*-4C	10	4	68.1	8	56	11.2	19.8	40.5	20	1.5 to 4.9	69
	VSP-D10-20R*-6C		6				11.9	21.1				70
	VSP-D10-30R*-4C		4	81.1		69	11.2	19.8	53.5	30	1.1 to 4.8	75
	VSP-D10-30R*-6C		6				11.9	21.1				76
Soft bellows	VSP-D10-40R*-4C		4	94.1		82	11.2	19.8	66.5	40	1.0 to 4.5	82
	VSP-D10-40R*-6C		6				11.9	21.1				83
	VSP-D10-50R*-4C		4	107.1		95	11.2	19.8	79.5	50	0.9 to 4.5	89
	VSP-D10-50R*-6C		6				11.9	21.1				90
Anti-slip	VSP-D15-20R(A)*-4C	15	4	69.1 (70.1)	9 (10)	57 (58)	11.2	19.8	40.5	20	1.5 to 4.9	69 (69)
	VSP-D15-20R(A)*-6C		6				11.9	21.1				70 (70)
	VSP-D15-30R(A)*-4C		4	82.1 (83.1)		70 (71)	11.2	19.8	53.5	30	1.1 to 4.8	75 (75)
	VSP-D15-30R(A)*-6C		6				11.9	21.1				76 (76)
Thin object	VSP-D15-40R(A)*-4C		4	95.1 (96.1)		83 (84)	11.2	19.8	66.5	40	1.0 to 4.5	82 (82)
	VSP-D15-40R(A)*-6C		6				11.9	21.1				83 (83)
Flat	VSP-D15-50R(A)*-4C		4	108.1 (109.1)		106 (107)	11.2	19.8	79.5	50	0.9 to 4.5	89 (89)
	VSP-D15-50R(A)*-6C		6				11.9	21.1				90 (90)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D20 to 50-□R(A)*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D20-20R(A)*-4C	20	4	71.6 (72.6)	10 (11)	59.5 (60.5)	11.2	19.8	41	20	1.5 to 4.9	69 (70)
VSP-D20-20R(A)*-6C		6				11.9	21.1				70 (71)
VSP-D20-30R(A)*-4C		4	84.6 (85.6)		72.5 (73.5)	11.2	19.8	54	30	1.1 to 4.8	76 (77)
VSP-D20-30R(A)*-6C		6				11.9	21.1				77 (78)
VSP-D20-40R(A)*-4C		4	97.6 (98.6)		85.5 (86.5)	11.2	19.8	67	40	1.0 to 4.5	82 (83)
VSP-D20-40R(A)*-6C		6				11.9	21.1				83 (84)
VSP-D20-50R(A)*-4C		4	110.6 (111.6)		98.5 (99.5)	11.2	19.8	80	50	0.9 to 4.5	89 (90)
VSP-D20-50R(A)*-6C		6				11.9	21.1				90 (91)
VSP-D25-20R(A)*-4C	25	4	72.6 (73.6)	11 (12)	60.5 (61.5)	11.2	19.8	41	20	1.5 to 4.9	69 (70)
VSP-D25-20R(A)*-6C		6				11.9	21.1				70 (71)
VSP-D25-30R(A)*-4C		4	85.6 (86.6)		73.5 (74.5)	11.2	19.8	54	30	1.1 to 4.8	76 (77)
VSP-D25-30R(A)*-6C		6				11.9	21.1				77 (78)
VSP-D25-40R(A)*-4C		4	98.6 (99.6)		86.5 (87.5)	11.2	19.8	67	40	1.0 to 4.5	83 (84)
VSP-D25-40R(A)*-6C		6				11.9	21.1				84 (85)
VSP-D25-50R(A)*-4C		4	111.6 (112.6)		99.5 (100.5)	11.2	19.8	80	50	0.9 to 4.5	90 (91)
VSP-D25-50R(A)*-6C		6				11.9	21.1				91 (92)
VSP-D30-20R(A)*-4C	30	4	72.6 (75.6)	11 (14)	60.5 (63.5)	11.2	19.8	41	20	1.5 to 4.9	71 (72)
VSP-D30-20R(A)*-6C		6				11.9	21.1				72 (73)
VSP-D30-30R(A)*-4C		4	85.6 (88.6)		73.5 (76.5)	11.2	19.8	54	30	1.1 to 4.8	78 (79)
VSP-D30-30R(A)*-6C		6				11.9	21.1				79 (80)
VSP-D30-40R(A)*-4C		4	98.6 (101.6)		86.5 (89.5)	11.2	19.8	67	40	1.0 to 4.5	85 (86)
VSP-D30-40R(A)*-6C		6				11.9	21.1				86 (87)
VSP-D30-50R(A)*-4C		4	111.6 (114.6)		99.5 (102.5)	11.2	19.8	80	50	0.9 to 4.5	92 (93)
VSP-D30-50R(A)*-6C		6				11.9	21.1				93 (94)
VSP-D40-20R(A)*-4C	40	4	75.6 (79.1)	14 (17.5)	63.5 (67)	11.2	19.8	41	20	1.5 to 4.9	78 (79)
VSP-D40-20R(A)*-6C		6				11.9	21.1				79 (80)
VSP-D40-30R(A)*-4C		4	88.6 (92.1)		76.5 (80)	11.2	19.8	54	30	1.1 to 4.8	85 (86)
VSP-D40-30R(A)*-6C		6				11.9	21.1				86 (87)
VSP-D40-40R(A)*-4C		4	101.6 (105.1)		89.5 (93)	11.2	19.8	67	40	1.0 to 4.5	92 (93)
VSP-D40-40R(A)*-6C		6				11.9	21.1				93 (94)
VSP-D40-50R(A)*-4C		4	114.6 (118.1)		102.5 (106)	11.2	19.8	80	50	0.9 to 4.5	99 (100)
VSP-D40-50R(A)*-6C		6				11.9	21.1				100 (101)
VSP-D50-20R(A)*-4C	50	4	76.6 (79.6)	15 (18)	64.5 (67.5)	11.2	19.8	41	20	1.5 to 4.9	84 (85)
VSP-D50-20R(A)*-6C		6				11.9	21.1				85 (86)
VSP-D50-30R(A)*-4C		4	89.6 (92.6)		77.5 (80.5)	11.2	19.8	54	30	1.1 to 4.8	91 (92)
VSP-D50-30R(A)*-6C		6				11.9	21.1				92 (93)
VSP-D50-40R(A)*-4C		4	102.6 (105.6)		90.5 (93.5)	11.2	19.8	67	40	1.0 to 4.5	98 (99)
VSP-D50-40R(A)*-6C		6				11.9	21.1				99 (100)
VSP-D50-50R(A)*-4C		4	115.6 (118.6)		103.5 (106.5)	11.2	19.8	80	50	0.9 to 4.5	105 (107)
VSP-D50-50R(A)*-6C		6				11.9	21.1				106 (108)

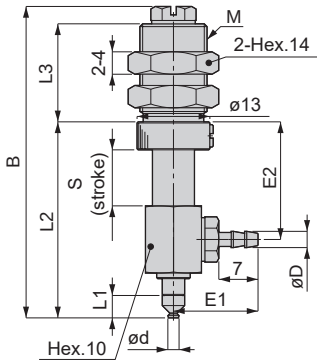
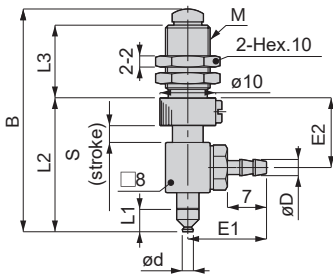
*1: Dimensions in () are dimensions of the deep pad.

VSP-***R***, ***A***, ***RM*** Series

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting)

●VSP-D1 to 4R*-4T/6T

●VSP-D1 to 4-□R*-4T/6T



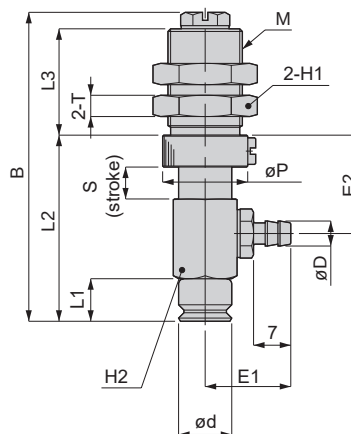
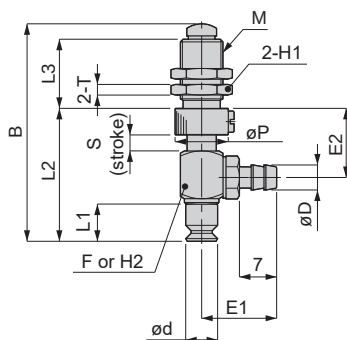
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	E1	E2	Stroke S	Spring force (N)	Weight (g)	
General/Deep/ Compact	VSP-D1R*-4T	1	2.5	M8x0.75	40	4	24	13	13.9	12.5	3	0.9 to 1.9	12	
	VSP-D1R*-6T		4											
Sponge	VSP-D1-10R*-4T		2.5	M12x1	55.6		35	17.5	14.9	21	10	0.6 to 1.7	27	
	VSP-D1-10R*-6T		4											
	VSP-D1-15R*-4T		2.5		66.6		40	23.5		26	15	0.4 to 1.7	32	
	VSP-D1-15R*-6T		4											
Bellows	VSP-D1-20R*-4T		2.5		76.6		45	28.5		31	20	0.3 to 1.8	35	
	VSP-D1-20R*-6T		4											
Multi-Stage bellows	VSP-D2R*-4T	2	2.5	M8x0.75	40	4	24	13	13.9	12.5	3	0.9 to 1.9	12	
	VSP-D2R*-6T		4											
	VSP-D2-10R*-4T		2.5	M12x1	55.6		35	17.5	14.9	21	10	0.6 to 1.7	27	
	VSP-D2-10R*-6T		4											
Oval	VSP-D2-15R*-4T		2.5		66.6		40	23.5		26	15	0.4 to 1.7	32	
	VSP-D2-15R*-6T		4											
	VSP-D2-20R*-4T		2.5		76.6		45	28.5		31	20	0.3 to 1.8	35	
	VSP-D2-20R*-6T		4											
Soft	VSP-D3R*-4T	3	2.5	M8x0.75	40	4	24	13	13.9	12.5	3	0.9 to 1.9	12	
	VSP-D3R*-6T		4											
	VSP-D3-10R*-4T		2.5	M12x1	55.6		35	17.5	14.9	21	10	0.6 to 1.7	27	
	VSP-D3-10R*-6T		4											
Soft bellows	VSP-D3-15R*-4T		2.5		66.6		40	23.5		26	15	0.4 to 1.7	32	
	VSP-D3-15R*-6T		4											
	VSP-D3-20R*-4T		2.5		76.6		45	28.5		31	20	0.3 to 1.8	35	
	VSP-D3-20R*-6T		4											
Anti-slip	VSP-D4R*-4T	4	2.5	M8x0.75	40	4	24	13	13.9	12.5	3	0.9 to 1.9	12	
	VSP-D4R*-6T		4											
	VSP-D4-10R*-4T		2.5	M12x1	55.6		35	17.5	14.9	21	10	0.6 to 1.7	27	
	VSP-D4-10R*-6T		4											
Thin object	VSP-D4-15R*-4T		2.5		66.6		40	23.5		26	15	0.4 to 1.7	32	
	VSP-D4-15R*-6T		4											
	Flat		VSP-D4-20R*-4T		2.5		76.6	45		28.5	31	20	0.3 to 1.8	35
			VSP-D4-20R*-6T		4									
Suction mark prevention														

Dimensions

●VSP-D6, 8R*-4T/6T
●VSP-D6, 8-□R*-4T/6T

- VSP-D10R*-4T/6T
- VSP-D10-□R*-4T/6T
- VSP-D15R(A)*-4T/6T
- VSP-D15-□R(A)*-4T/6T



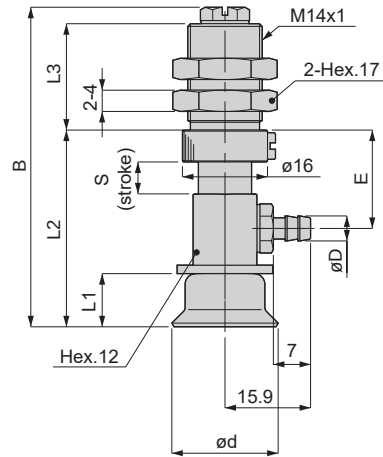
Unit: mm																	
Model No.	Pad diameter øD	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	E1	E2	Hexagon H1	Hexagon H2	□F	T	Stroke S	Spring force (N)	Weight (g)
VSP-D6R*-4T	6	2.5	M8x0.75	41	7	25	13	10	13.9	13	10	-	8	2	3	0.9 to 1.9	13
VSP-D6R*-6T		4															
VSP-D6-10R*-4T		2.5	M12x1	56.1		35.5	17.5	13	15.9	21	14	12	-	4	10	0.8 to 2.7	32
VSP-D6-10R*-6T		4															
VSP-D6-15R*-4T		2.5				67.1	40.5	23.5	26	15	0.7 to 3.0	36					
VSP-D6-15R*-6T		4															
VSP-D6-20R*-4T		2.5				77.1	45.5	28.5	31	20	0.9 to 3.4	39					
VSP-D6-20R*-6T		4															
VSP-D8R*-4T	8	2.5	M8x0.75	39.5	5.5	23.5	13	10	13.9	13	10	-	8	2	3	0.9 to 1.9	13
VSP-D8R*-6T		4															
VSP-D8-10R*-4T		2.5	M12x1	54.6		34	17.5	21	14	12	-	4	10	0.8 to 2.7	32		
VSP-D8-10R*-6T		4															
VSP-D8-15R*-4T		2.5				65.6	39	23.5	26	15	0.7 to 3.0	36					
VSP-D8-15R*-6T		4															
VSP-D8-20R*-4T		2.5				75.6	44	28.5	31	20	0.9 to 3.4	39					
VSP-D8-20R*-6T		4															
VSP-D10R*-4T	10	2.5	M14x1	58.1	8	35	20	16	15.9	18.5	17	12	-	4	6	4.0 to 7.1	46
VSP-D10R*-6T		4															
VSP-D10-10R*-4T		2.5		63.1		40	25	30	15	2.0 to 5.2	49						
VSP-D10-10R*-6T		4															
VSP-D10-15R*-4T		2.5		73.1		45	25	37	20	1.1 to 4.8	65						
VSP-D10-15R*-6T		4															
VSP-D10-20R*-4T		2.5		89.1		52	34	37	20	1.1 to 4.8	65						
VSP-D10-20R*-6T		4															
VSP-D15R(A)*-4T	15	2.5	M14x1	59.1 (60.1)	9 (10)	36 (37)	20	16	15.9	18.5	17	12	-	4	6	4.0 to 7.1	46
VSP-D15R(A)*-6T		4															
VSP-D15-10R(A)*-4T		2.5		64.1 (65.1)		41 (42)	25	30	15	2.0 to 5.2	49						
VSP-D15-10R(A)*-6T		4															
VSP-D15-15R(A)*-4T		2.5		74.1 (75.1)		46 (47)	25	37	20	1.1 to 4.8	65						
VSP-D15-15R(A)*-6T		4															
VSP-D15-20R(A)*-4T		2.5		90.1 (91.1)		53 (54)	34	37	20	1.1 to 4.8	65						
VSP-D15-20R(A)*-6T		4															

*1: Dimensions in () are dimensions of the deep pad.

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting)

●VSP-D20 to 50R(A)*-4T/6T



Unit: mm

General/Deep/ Compact	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
Sponge	VSP-D20R(A)*-4T	20	2.5	60.1 (61.1)	10 (11)	37 (38)	20	18.5	6	7.0 to 12.6	49 (49)
	VSP-D20R(A)*-6T		4								
	VSP-D20-10R(A)*-4T		2.5	66.1 (67.1)		43 (44)		24.5	10	3.3 to 10.0	53 (53)
	VSP-D20-10R(A)*-6T		4								
Bellows	VSP-D20-15R(A)*-4T		2.5	76.1 (77.1)		48 (49)	25	29.5	15	3.3 to 10.4	60 (60)
	VSP-D20-15R(A)*-6T		4								
	VSP-D20-20R(A)*-4T		2.5	92.1 (93.1)		55 (56)	34	36.5	20	2.0 to 8.7	70 (70)
	VSP-D20-20R(A)*-6T		4								
Multi-Stage bellows	VSP-D25R(A)*-4T	25	2.5	61.1 (62.1)	11 (12)	38 (39)	20	18.5	6	7.0 to 12.6	50 (50)
	VSP-D25R(A)*-6T		4								
	VSP-D25-10R(A)*-4T		2.5	67.1 (68.1)		44 (45)		24.5	10	3.3 to 10.0	54 (54)
	VSP-D25-10R(A)*-6T		4								
Oval	VSP-D25-15R(A)*-4T		2.5	77.1 (78.1)		49 (50)	25	29.5	15	3.3 to 10.4	60 (60)
	VSP-D25-15R(A)*-6T		4								
	VSP-D25-20R(A)*-4T		2.5	93.1 (94.1)		56 (57)	34	36.5	20	2.0 to 8.7	70 (70)
	VSP-D25-20R(A)*-6T		4								
Soft bellows	VSP-D30R(A)*-4T	30	2.5	61.1 (64.1)	11 (14)	38 (41)	20	18.5	6	7.0 to 12.6	52 (52)
	VSP-D30R(A)*-6T		4								
	VSP-D30-10R(A)*-4T		2.5	67.1 (70.1)		44 (47)		24.5	10	3.3 to 10.0	54 (54)
	VSP-D30-10R(A)*-6T		4								
Anti-slip	VSP-D30-15R(A)*-4T		2.5	77.1 (80.1)		49 (52)	25	29.5	15	3.3 to 10.4	61 (61)
	VSP-D30-15R(A)*-6T		4								
	VSP-D30-20R(A)*-4T		2.5	93.1 (96.1)		56 (59)	34	36.5	20	2.0 to 8.7	71 (71)
	VSP-D30-20R(A)*-6T		4								
Thin object	VSP-D40R(A)*-4T	40	2.5	64.1 (67.6)	14 (17.5)	41 (44.5)	20	18.5	6	7.0 to 12.6	59 (60)
	VSP-D40R(A)*-6T		4								
	VSP-D40-10R(A)*-4T		2.5	70.1 (73.6)		47 (50.5)		24.5	10	3.3 to 10.0	63 (64)
	VSP-D40-10R(A)*-6T		4								
Flat	VSP-D40-15R(A)*-4T		2.5	80.1 (83.6)		52 (55.5)	25	29.5	15	3.3 to 10.4	69 (70)
	VSP-D40-15R(A)*-6T		4								
	VSP-D40-20R(A)*-4T		2.5	96.1 (99.6)		59 (62.5)	34	36.5	20	2.0 to 8.7	79 (80)
	VSP-D40-20R(A)*-6T		4								
Suction mark prevention	VSP-D50R(A)*-4T	50	2.5	65.1 (68.1)	15 (18)	42 (45)	20	18.5	6	7.0 to 12.6	65 (66)
	VSP-D50R(A)*-6T		4								
	VSP-D50-10R(A)*-4T		2.5	71.1 (74.1)		48 (51)		24.5	10	3.3 to 10.0	69 (70)
	VSP-D50-10R(A)*-6T		4								
	VSP-D50-15R(A)*-4T		2.5	81.1 (84.1)		53 (56)	25	29.5	15	3.3 to 10.4	75 (77)
	VSP-D50-15R(A)*-6T		4								
	VSP-D50-20R(A)*-4T		2.5	97.1 (100.1)		60 (63)	34	36.5	20	2.0 to 8.7	85 (87)
	VSP-D50-20R(A)*-6T		4								

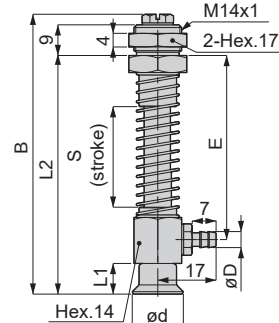
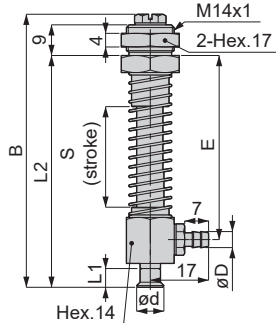
*1: Dimensions in () are dimensions of the deep pad.

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D6, 8-□R*-4TC/6TC

●VSP-D10-□R*-4TC/6TC

●VSP-D15-□R(A)*-4TC/6TC



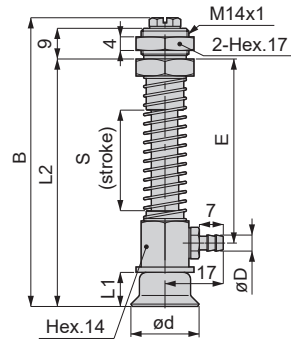
Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D6-20R*-4TC	6	2.5	67.1	7	55	40.5	20	1.5 to 4.9	60
VSP-D6-20R*-6TC		4							
VSP-D6-30R*-4TC		2.5	80.1		68	53.5	30	1.1 to 4.8	67
VSP-D6-30R*-6TC		4							
VSP-D6-40R*-4TC		2.5	93.1		81	66.5	40	1.0 to 4.5	74
VSP-D6-40R*-6TC		4							
VSP-D6-50R*-4TC		2.5	106.1		94	79.5	50	0.9 to 4.5	80
VSP-D6-50R*-6TC		4							
VSP-D8-20R*-4TC	8	2.5	65.6	5.5	53.5	40.5	20	1.5 to 4.9	60
VSP-D8-20R*-6TC		4							
VSP-D8-30R*-4TC		2.5	78.6		56.5	53.5	30	1.1 to 4.8	67
VSP-D8-30R*-6TC		4							
VSP-D8-40R*-4TC		2.5	91.6		69.5	66.5	40	1.0 to 4.5	74
VSP-D8-40R*-6TC		4							
VSP-D8-50R*-4TC		2.5	104.6		82.5	79.5	50	0.9 to 4.5	80
VSP-D8-50R*-6TC		4							
VSP-D10-20R*-4TC	10	2.5	68.1	8	56	40.5	20	1.5 to 4.9	60
VSP-D10-20R*-6TC		4							
VSP-D10-30R*-4TC		2.5	81.1		69	53.5	30	1.1 to 4.8	67
VSP-D10-30R*-6TC		4							
VSP-D10-40R*-4TC		2.5	94.1		82	66.5	40	1.0 to 4.5	74
VSP-D10-40R*-6TC		4							
VSP-D10-50R*-4TC		2.5	107.1		95	79.5	50	0.9 to 4.5	80
VSP-D10-50R*-6TC		4							
VSP-D15-20R(A)*-4TC	15	2.5	69.1 (70.1)	9 (10)	57 (58)	40.5	20	1.5 to 4.9	60 (61)
VSP-D15-20R(A)*-6TC		4							
VSP-D15-30R(A)*-4TC		2.5	82.1 (83.1)		70 (71)	53.5	30	1.1 to 4.8	67 (68)
VSP-D15-30R(A)*-6TC		4							
VSP-D15-40R(A)*-4TC		2.5	95.1 (96.1)		83 (84)	66.5	40	1.0 to 4.5	74 (75)
VSP-D15-40R(A)*-6TC		4							
VSP-D15-50R(A)*-4TC		2.5	108.1 (109.1)		106 (107)	79.5	50	0.9 to 4.5	80 (81)
VSP-D15-50R(A)*-6TC		4							

*1: Dimensions in () are dimensions of the deep pad.

VSP-*R*, *A*, *RM* Series

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D20 to 50-□R(A)*-4TC/6TC



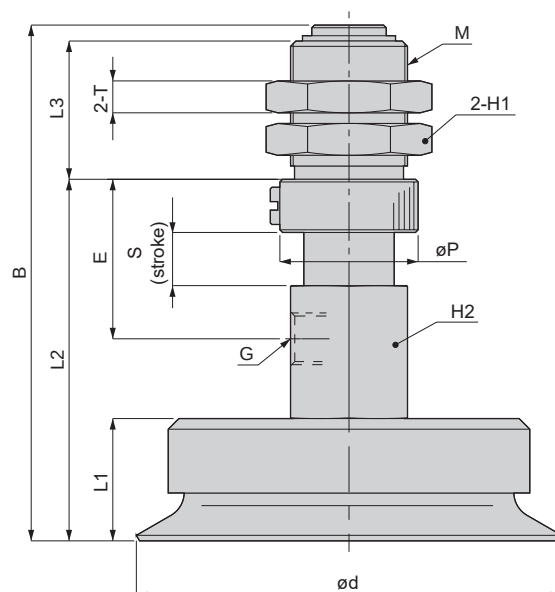
Unit: mm

	Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D20-20R(A)*-4TC	20	4	71.6 (72.6)	10 (11)	59.5 (60.5)	41	20	1.5 to 4.9	68 (69)
	VSP-D20-20R(A)*-6TC		6							
Sponge	VSP-D20-30R(A)*-4TC		4							
	VSP-D20-30R(A)*-6TC		6							
Bellows	VSP-D20-40R(A)*-4TC		4							
	VSP-D20-40R(A)*-6TC		6							
	VSP-D20-50R(A)*-4TC		4							
	VSP-D20-50R(A)*-6TC		6							
Multi-Stage bellows	VSP-D25-20R(A)*-4TC	25	4	72.6 (73.6)	11 (12)	60.5 (61.5)	41	20	1.5 to 4.9	68 (69)
	VSP-D25-20R(A)*-6TC		6							
	VSP-D25-30R(A)*-4TC		4							
	VSP-D25-30R(A)*-6TC		6							
	VSP-D25-40R(A)*-4TC		4							
	VSP-D25-40R(A)*-6TC		6							
Oval	VSP-D25-50R(A)*-4TC		4							
	VSP-D25-50R(A)*-6TC		6							
Soft bellows	VSP-D30-20R(A)*-4TC	30	4	72.6 (75.6)	11 (14)	60.5 (63.5)	41	20	1.5 to 4.9	69 (70)
	VSP-D30-20R(A)*-6TC		6							
	VSP-D30-30R(A)*-4TC		4							
	VSP-D30-30R(A)*-6TC		6							
	VSP-D30-40R(A)*-4TC		4							
	VSP-D30-40R(A)*-6TC		6							
Anti-slip	VSP-D30-50R(A)*-4TC		4							
	VSP-D30-50R(A)*-6TC		6							
Thin object	VSP-D40-20R(A)*-4TC	40	4	75.6 (79.1)	14 (17.5)	63.5 (67)	41	20	1.5 to 4.9	77 (78)
	VSP-D40-20R(A)*-6TC		6							
	VSP-D40-30R(A)*-4TC		4							
	VSP-D40-30R(A)*-6TC		6							
	VSP-D40-40R(A)*-4TC		4							
	VSP-D40-40R(A)*-6TC		6							
Flat	VSP-D40-50R(A)*-4TC		4							
	VSP-D40-50R(A)*-6TC		6							
Suction mark prevention	VSP-D50-20R(A)*-4TC	50	4	76.6 (79.6)	15 (18)	64.5 (67.5)	41	20	1.5 to 4.9	83 (85)
	VSP-D50-20R(A)*-6TC		6							
	VSP-D50-30R(A)*-4TC		4							
	VSP-D50-30R(A)*-6TC		6							
	VSP-D50-40R(A)*-4TC		4							
	VSP-D50-40R(A)*-6TC		6							
	VSP-D50-50R(A)*-4TC		4							
	VSP-D50-50R(A)*-6TC		6							

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (buffer, vacuum outlet side VSP-D, female thread)

- VSP-D60 to 100R(A)*-6A
- VSP-D150, 200R*-8A



Unit: mm

Model No.	Pad diameter ød	Vacuum outlet size G	Mounting screw M	B	L1	L2	L3	øP	E	Hexagon H1	Hexagon H2	T	Stroke S	Spring force (N)	Weight (g)
VSP-D60R(A)*-6A	60	G1/8	M22x1	94.6 (101.6)	18 (25)	65.6 (72.6)	26	26	30	27	22	6	10	10.1 to 15.8	244 (243)
VSP-D80R(A)*-6A	80	G1/8	M22x1	97 (107)	23 (33)	68 (78)	26	26	30	27	22	6	10	10.1 to 15.8	328 (336)
VSP-D100R(A)*-6A	100	G1/8	M22x1	99 (108)	25 (34)	70 (79)	26	26	30	27	22	6	10	10.1 to 15.8	417 (423)
VSP-D150R*-8A	150	G1/4	M30x2	168.3	45	112.1	48	35	42.1	36	30	10	20.1	14.0 to 25.5	1196
VSP-D200R*-8A	200	G1/4	M30x2	173.3	50	117.1	48	35	42.1	36	30	10	20.1	14.0 to 25.5	1675

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

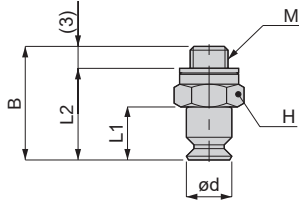
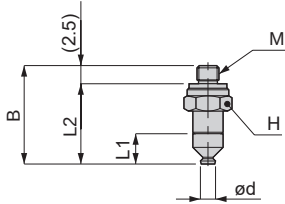
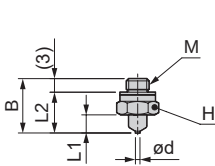
VSP-***R***, ***A***, ***RM*** Series

Dimensions (fixed, direct mounting, VSP-E, male thread)

●VSP-E0.7 to 4RM*

●VSP-E1 to 4R*

●VSP-E6, 8R*



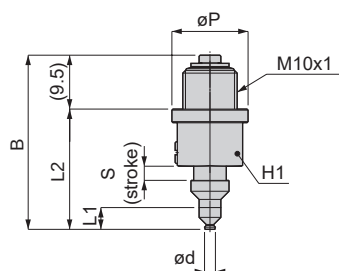
Unit: mm

Model No.	Pad diameter ød	M	B	L1	L2	Hexagon H	Weight (g)
VSP-E0.7RM*	0.7	M5x0.8	12	4	9	8	1
VSP-E1RM*	1	M5x0.8	12	4	9	8	1
VSP-E1.5RM*	1.5	M5x0.8	12	4	9	8	1
VSP-E2RM*	2	M5x0.8	12	4	9	8	1
VSP-E3RM*	3	M5x0.8	12	4	9	8	1
VSP-E4RM*	4	M5x0.8	12	4	9	8	1
VSP-E1R*	1	M3x0.5	13	4	10.5	5.5	1.5
VSP-E2R*	2	M3x0.5	13	4	10.5	5.5	1.5
VSP-E3R*	3	M3x0.5	13	4	10.5	5.5	1.5
VSP-E4R*	4	M3x0.5	13	4	10.5	5.5	1.5
VSP-E6R*	6	M5x0.8	15	7	12	8	3
VSP-E8R*	8	M5x0.8	13.5	5.5	10.5	8	3

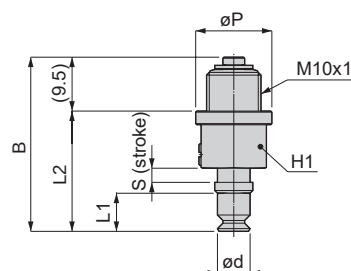
- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-Stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (buffer direct mounting VSP-F, male thread)

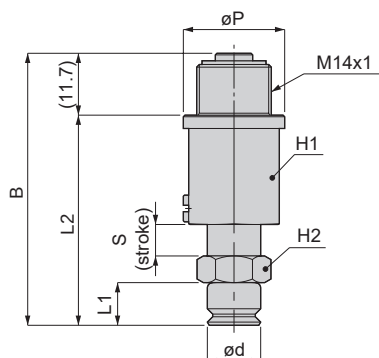
●VSP-F1 to 4R*



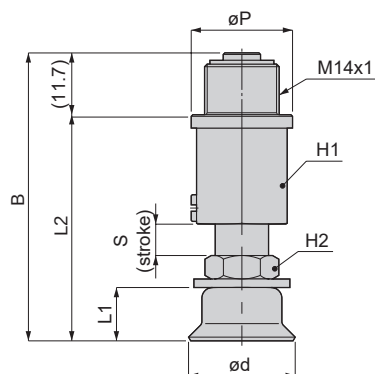
●VSP-E6, 8R*



●VSP-F10R*



●VSP-F15 to 50R(A)*



Unit: mm

Model No.	Pad diameter ød	B	L1	L2	øP	Stroke S	Hexagon H1	Hexagon H2	Spring force (N)	Weight (g)
VSP-F1R*	1	32	4	22.5	14	3	12	-	2.3 to 3.9	15
VSP-F2R*	2	32	4	22.5	14	3	12	-	2.3 to 3.9	15
VSP-F3R*	3	32	4	22.5	14	3	12	-	2.3 to 3.9	15
VSP-F4R*	4	32	4	22.5	14	3	12	-	2.3 to 3.9	15
VSP-F6R*	6	32	7	22.5	14	3	12	-	2.3 to 3.9	15
VSP-F8R*	8	30.5	5.5	21	14	3	12	-	2.3 to 3.9	15
VSP-F10R*	10	51	8	39.3	19	5.8	17	12	7.9 to 15	56 (56)
VSP-F15R(A)*	15	52 (53)	9 (10)	40.3 (41.3)	19	5.8	17	12	7.9 to 15	56 (56)
VSP-F20R(A)*	20	54 (55)	10 (11)	42.3 (43.3)	19	5.8	17	12	7.9 to 15	59 (59)
VSP-F25R(A)*	25	55 (56)	11 (12)	43.3 (44.3)	19	5.8	17	12	7.9 to 15	59 (59)
VSP-F30R(A)*	30	55 (58)	11 (14)	43.3 (46.3)	19	5.8	17	12	7.9 to 15	61 (61)
VSP-F40R(A)*	40	58 (61.5)	14 (17.5)	46.3 (49.8)	19	5.8	17	12	7.9 to 15	68 (69)
VSP-F50R(A)*	50	59 (62)	15 (18)	47.3 (50.3)	19	5.8	17	12	7.9 to 15	74 (76)

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (compact fixed, vacuum outlet top VSP-MA, push-in fitting)

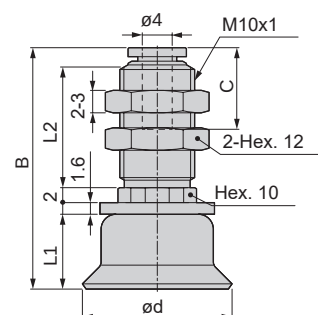
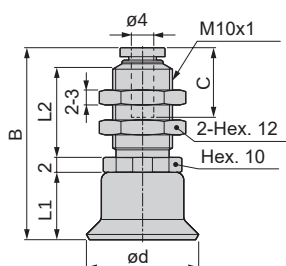
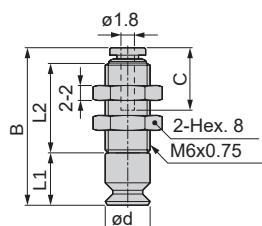
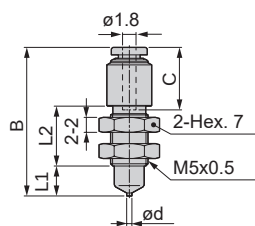
●VSP-MA0.7 to 4RM*-2

●VSP-MA6, 8R*-2

●VSP-MA10R*-4

●VSP-MA15R(A)*-4

●VSP-MA20 to 50R(A)*-4



Suction pad

Unit: mm

Model No.	Pad diameter ød	B	L1	L2	Tube end C	Weight (g)
VSP-MA0.7RM*-2	0.7	19.9	4	8	8.4	1.8
VSP-MA1RM*-2	1	19.9	4	8	8.4	1.8
VSP-MA1.5RM*-2	1.5	19.9	4	8	8.4	1.8
VSP-MA2RM*-2	2	19.9	4	8	8.4	1.8
VSP-MA3RM*-2	3	19.9	4	8	8.4	1.8
VSP-MA4RM*-2	4	19.9	4	8	8.4	1.8
VSP-MA6R*-2	6	21.1	7	12	8.4	2
VSP-MA8R*-2	8	19.6	5.5	12	8.4	2
VSP-MA10R*-4	10	29	8	16.4	11.2	6.4
VSP-MA15R(A)*-4	15	30 (31)	9 (10)	16.4	11.2	6.7 (6.8)
VSP-MA20R(A)*-4	20	32.6 (33.6)	10 (11)	16.4	11.2	12 (12)
VSP-MA25R(A)*-4	25	33.6 (34.6)	11 (12)	16.4	11.2	13 (13)
VSP-MA30R(A)*-4	30	33.6 (36.6)	11 (14)	16.4	11.2	15 (15)
VSP-MA40R(A)*-4	40	36.6 (40.1)	14 (17.5)	16.4	11.2	22 (23)
VSP-MA50R(A)*-4	50	37.6 (40.6)	15 (18)	16.4	11.2	28 (30)

*1: Dimensions in () are dimensions of the deep pad.

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

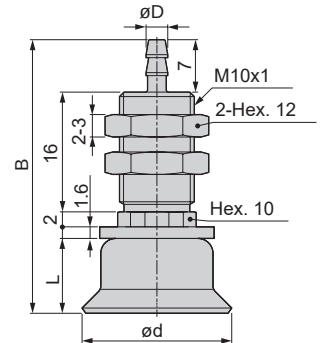
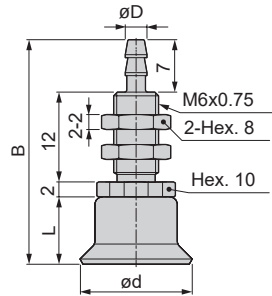
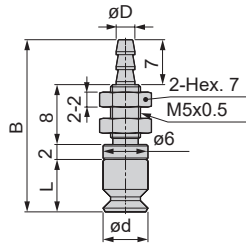
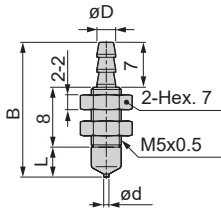
Dimensions (compact fixed, vacuum outlet top VSP-MA, barbed fitting)

●VSP-MA0.7 to 4RM*-4T ●VSP-MA6, 8R*-4T

●VSP-MA10R*-4T

●VSP-MA20 to 50R(A)*-4T/6T

●VSP-MA15R(A)*-4T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MA0.7RM*-4T	0.7	2.5	19	4	1.3
VSP-MA1RM*-4T	1	2.5	19	4	1.3
VSP-MA1.5RM*-4T	1.5	2.5	19	4	1.3
VSP-MA2RM*-4T	2	2.5	19	4	1.3
VSP-MA3RM*-4T	3	2.5	19	4	1.3
VSP-MA4RM*-4T	4	2.5	19	4	1.3
VSP-MA6R*-4T	6	2.5	24	7	1.6
VSP-MA8R*-4T	8	2.5	22.5	5.5	1.6
VSP-MA10R*-4T	10	2.5	29	8	3.6
VSP-MA15R(A)*-4T	15	2.5	30 (31)	9 (10)	3.9 (4)
VSP-MA20R(A)*-4T	20	2.5	36.6 (37.6)	10 (11)	12 (12)
VSP-MA20R(A)*-6T		4			
VSP-MA25R(A)*-4T	25	2.5	37.6 (38.6)	11 (12)	13 (13)
VSP-MA25R(A)*-6T		4			
VSP-MA30R(A)*-4T	30	2.5	37.6 (40.6)	11 (14)	15 (15)
VSP-MA30R(A)*-6T		4			
VSP-MA40R(A)*-4T	40	2.5	40.6 (44.1)	14 (17.5)	22 (23)
VSP-MA40R(A)*-6T		4			
VSP-MA50R(A)*-4T	50	2.5	41.6 (44.6)	15 (18)	28 (30)
VSP-MA50R(A)*-6T		4			

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (compact fixed, vacuum outlet side VSP-MB, push-in fitting)

- VSP-MB0.7 to 4RM*-2/4 ●VSP-MB6, 8R*-2/4 ●VSP-MB10R*-2/4/6 ●VSP-MB20 to 50R(A)*-2/4/6
 ●VSP-MB15R(A)*-2/4/6



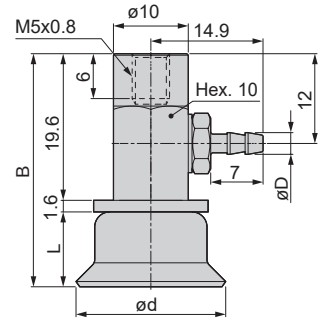
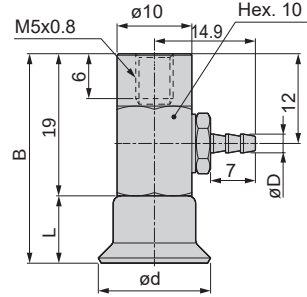
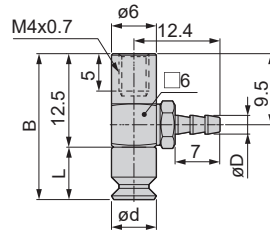
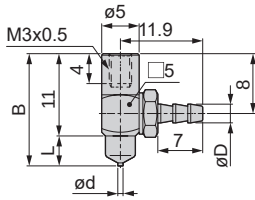
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
General/Deep/ Compact	VSP-MB0.7RM*-2	0.7	1.8	15	4	8.4	12	1.5
	4		11.2			15.3	2.9	
	VSP-MB1RM*-2	1	1.8	15	4	8.4	12	1.5
VSP-MB1RM*-4	4		11.2			15.3	2.9	
Sponge	VSP-MB1.5RM*-2	1.5	1.8	15	4	8.4	12	1.5
	VSP-MB1.5RM*-4		4			11.2	15.3	2.9
Bellows	VSP-MB2RM*-2	2	1.8	15	4	8.4	12	1.5
	VSP-MB2RM*-4		4			11.2	15.3	2.9
Multi-Stage bellows	VSP-MB3RM*-2	3	1.8	15	4	8.4	12	1.5
	VSP-MB3RM*-4		4			11.2	15.3	2.9
	VSP-MB4RM*-2	4	1.8	15	4	8.4	12	1.5
	VSP-MB4RM*-4		4			11.2	15.3	2.9
Oval	VSP-MB6R*-2	6	1.8	19.5	7	8.4	12.5	2
	VSP-MB6R*-4		4			11.2	15.8	3.4
	VSP-MB8R*-2	8	1.8	18	5.5	8.4	12.5	2
	VSP-MB8R*-4		4			11.2	15.8	3.4
Soft	VSP-MB10R*-2	10	1.8	27	8	8.4	13.7	7.4
	VSP-MB10R*-4		4			11.2	17.8	8.1
	VSP-MB10R*-6		6			11.9	19.6	9.5
Soft bellows	VSP-MB15R(A)*-2	15	1.8	28 (29)	9 (10)	8.4	13.7	7.8 (7.8)
	VSP-MB15R(A)*-4		4			11.2	17.8	8.5 (8.5)
	VSP-MB15R(A)*-6		6			11.9	19.6	9.9 (9.9)
Anti-slip	VSP-MB20R(A)*-2	20	1.8	31.2 (32.2)	10 (11)	8.4	13.7	12 (12)
	VSP-MB20R(A)*-4		4			11.2	17.8	13 (13)
	VSP-MB20R(A)*-6		6			11.9	19.6	14 (14)
Thin object	VSP-MB25R(A)*-2	25	1.8	32.2 (33.2)	11 (12)	8.4	13.7	13 (13)
	VSP-MB25R(A)*-4		4			11.2	17.8	14 (14)
	VSP-MB25R(A)*-6		6			11.9	19.6	15 (15)
Flat	VSP-MB30R(A)*-2	30	1.8	32.2 (35.2)	11 (14)	8.4	13.7	15 (15)
	VSP-MB30R(A)*-4		4			11.2	17.8	16 (16)
	VSP-MB30R(A)*-6		6			11.9	19.6	17 (17)
Suction mark prevention	VSP-MB40R(A)*-2	40	1.8	35.2 (38.7)	14 (17.5)	8.4	13.7	22 (22)
	VSP-MB40R(A)*-4		4			11.2	17.8	23 (23)
	VSP-MB40R(A)*-6		6			11.9	19.6	24 (24)
	VSP-MB50R(A)*-2	50	1.8	36.2 (39.2)	15 (18)	8.4	13.7	28 (28)
	VSP-MB50R(A)*-4		4			11.2	17.8	29 (29)
	VSP-MB50R(A)*-6		6			11.9	19.6	30 (30)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (compact fixed, vacuum outlet side VSP-MB, barbed fitting)

- VSP-MB0.7 to 4RM*-4T/6T ●VSP-MB6, 8R*-4T/6T ●VSP-MB10R*-4T/6T ●VSP-MB20 to 50R(A)*-4T/6T
 ●VSP-MB15R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB0.7RM*-4T	0.7	1.8	15	4	1.7
VSP-MB0.7RM*-6T		4			
VSP-MB1RM*-4T	1	1.8	15	4	1.7
VSP-MB1RM*-6T		4			
VSP-MB1.5RM*-4T	1.5	1.8	15	4	1.7
VSP-MB1.5RM*-6T		4			
VSP-MB2RM*-4T	2	1.8	15	4	1.7
VSP-MB2RM*-6T		4			
VSP-MB3RM*-4T	3	1.8	15	4	1.7
VSP-MB3RM*-6T		4			
VSP-MB4RM*-4T	4	1.8	15	4	1.7
VSP-MB4RM*-6T		4			
VSP-MB6R*-4T	6	1.8	19.5	7	2.1
VSP-MB6R*-6T		4			
VSP-MB8R*-4T	8	1.8	18	5.5	2.1
VSP-MB8R*-6T		4			
VSP-MB10R*-4T	10	6.2	27	8	6.9
VSP-MB10R*-6T		8.4			
VSP-MB15R(A)*-4T	15	10.6	28 (29)	9 (10)	7.4 (7.4)
VSP-MB15R(A)*-6T		12.8			
VSP-MB20R(A)*-4T	20	15	31.2 (32.2)	10 (11)	12 (12)
VSP-MB20R(A)*-6T		17.2			
VSP-MB25R(A)*-4T	25	19.4	32.2 (33.2)	11 (12)	13 (13)
VSP-MB25R(A)*-6T		21.6			
VSP-MB30R(A)*-4T	30	23.8	32.2 (35.2)	11 (14)	15 (15)
VSP-MB30R(A)*-6T		26			
VSP-MB40R(A)*-4T	40	28.2	35.2 (38.7)	14 (17.5)	23 (23)
VSP-MB40R(A)*-6T		30.4			
VSP-MB50R(A)*-4T	50	32.6	36.2 (39.2)	15 (18)	30 (30)
VSP-MB50R(A)*-6T		34.8			

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

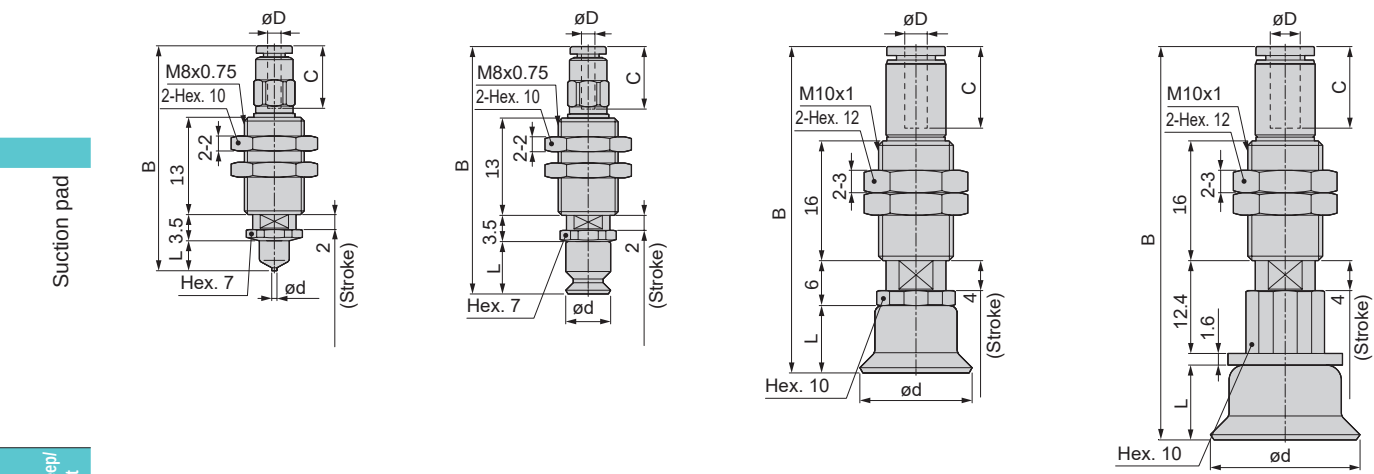
Flat

Suction mark prevention

VSP-*R**, *A**, *RM** Series

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

- VSP-MC0.7 to 4RM*-2
- VSP-MC6, 8R*-2
- VSP-MC10R*-2/4
- VSP-MC15R(A)*-2/4
- VSP-MC20 to 50R(A)*-2/4



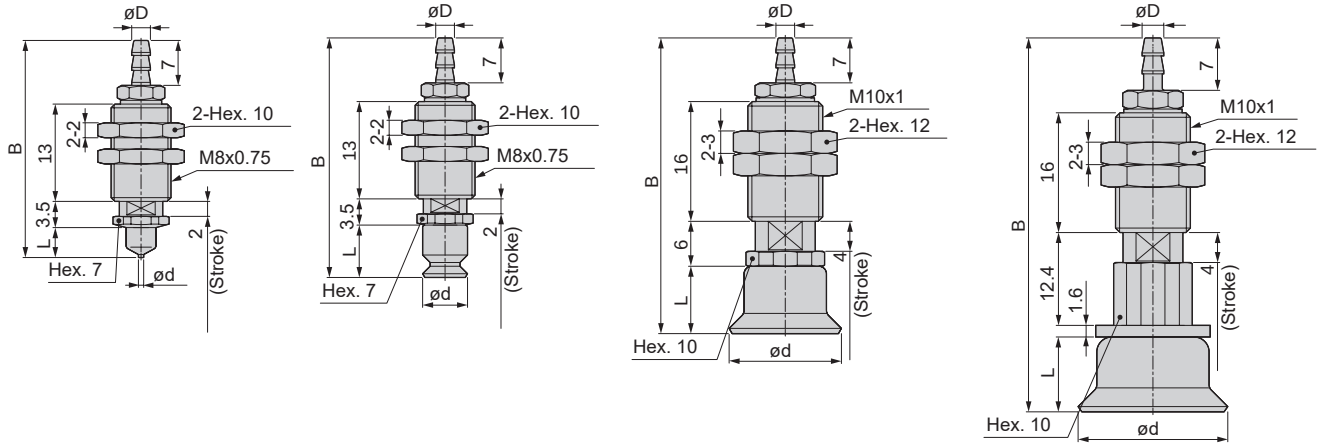
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC0.7RM*-2	0.7	1.8	30.2	4	8.4	0.2 to 0.3	6.5
VSP-MC1RM*-2	1	1.8	30.2	4	8.4	0.2 to 0.3	6.5
VSP-MC1.5RM*-2	1.5	1.8	30.2	4	8.4	0.2 to 0.3	6.5
VSP-MC2RM*-2	2	1.8	30.2	4	8.4	0.2 to 0.3	6.5
VSP-MC3RM*-2	3	1.8	30.2	4	8.4	0.2 to 0.3	6.5
VSP-MC4RM*-2	4	1.8	30.2	4	8.4	0.2 to 0.3	6.5
VSP-MC6R*-2	6	1.8	33.2	7	8.4	0.2 to 0.3	6.8
VSP-MC8R*-2	8	1.8	31.7	5.5	8.4	0.2 to 0.3	6.8
VSP-MC10R*-2	10	1.8	38.9	8	8.4	0.5 to 0.6	15
VSP-MC10R*-4		4	43		11.2		16
VSP-MC15R(A)*-2	15	1.8	39.9 (49.9)	9 (10)	8.4	0.5 to 0.6	15 (15)
VSP-MC15R(A)*-4		4	44 (45)		11.2		16 (16)
VSP-MC20R(A)*-2	20	1.8	48.9 (49.9)	10 (11)	8.4	1 to 1.3	23 (23)
VSP-MC20R(A)*-4		4	53 (54)		11.2		24 (24)
VSP-MC25R(A)*-2	25	1.8	49.9 (50.9)	11 (12)	8.4	1 to 1.3	24 (24)
VSP-MC25R(A)*-4		4	54 (55)		11.2		25 (25)
VSP-MC30R(A)*-2	30	1.8	49.9 (52.9)	11 (14)	8.4	1 to 1.3	26 (26)
VSP-MC30R(A)*-4		4	54 (57)		11.2		27 (27)
VSP-MC40R(A)*-2	40	1.8	52.9 (56.4)	14 (17.5)	8.4	1 to 1.3	33 (33)
VSP-MC40R(A)*-4		4	57 (60.5)		11.2		34 (34)
VSP-MC50R(A)*-2	50	1.8	53.9 (56.9)	15 (18)	8.4	1 to 1.3	39 (39)
VSP-MC50R(A)*-4		4	58 (61)		11.2		40 (40)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

- VSP-MC0.7 to 4RM*-4T/6T ●VSP-MC6, 8R*-4T/6T ●VSP-MC10R*-4T/6T ●VSP-MC20 to 50R(A)*-4T/6T
 ●VSP-MC15R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC0.7RM*-4T	0.7	2.5	30.1	4	0.2 to 0.3	6.6
VSP-MC0.7RM*-6T		4				
VSP-MC1RM*-4T	1	2.5	30.1	4	0.2 to 0.3	6.7
VSP-MC1RM*-6T		4				
VSP-MC1.5RM*-4T	1.5	2.5	30.1	4	0.2 to 0.3	6.7
VSP-MC1.5RM*-6T		4				
VSP-MC2RM*-4T	2	2.5	30.1	4	0.2 to 0.3	6.7
VSP-MC2RM*-6T		4				
VSP-MC3RM*-4T	3	2.5	30.1	4	0.2 to 0.3	6.6
VSP-MC3RM*-6T		4				
VSP-MC4RM*-4T	4	2.5	30.1	4	0.2 to 0.3	6.7
VSP-MC4RM*-6T		4				
VSP-MC6R*-4T	6	2.5	33.1	7	0.2 to 0.3	6.9
VSP-MC6R*-6T		4				
VSP-MC8R*-4T	8	2.5	31.6	5.5	0.2 to 0.3	6.9
VSP-MC8R*-6T		4				
VSP-MC10R*-4T	10	2.5	40.1	8	0.5 to 0.6	14
VSP-MC10R*-6T		4				
VSP-MC15R(A)*-4T	15	2.5	41.1 (42.1)	9 (10)	0.5 to 0.6	15 (15)
VSP-MC15R(A)*-6T		4				
VSP-MC20R(A)*-4T	20	2.5	50.1 (51.1)	10 (11)	1 to 1.3	23 (23)
VSP-MC20R(A)*-6T		4				
VSP-MC25R(A)*-4T	25	2.5	51.1 (52.1)	11 (12)	1 to 1.3	24 (24)
VSP-MC25R(A)*-6T		4				
VSP-MC30R(A)*-4T	30	2.5	51.1 (54.1)	11 (14)	1 to 1.3	25 (25)
VSP-MC30R(A)*-6T		4				
VSP-MC40R(A)*-4T	40	2.5	54.1 (57.6)	14 (17.5)	1 to 1.3	33 (33)
VSP-MC40R(A)*-6T		4				
VSP-MC50R(A)*-4T	50	2.5	55.1 (58.1)	15 (18)	1 to 1.3	40 (40)
VSP-MC50R(A)*-6T		4				

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

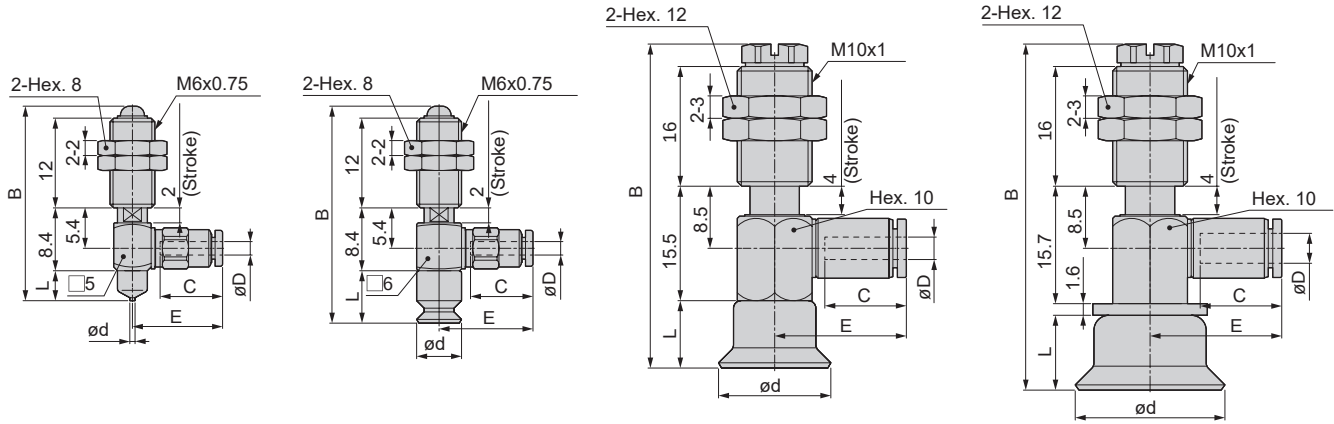
Suction mark
prevention

VSP-*R*, *A*, *RM* Series

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

- VSP-MD0.7 to 4RM*-2/4 ●VSP-MD6, 8R*-2/4 ●VSP-MD10R*-2/4/6 ●VSP-MD20 to 50R(A)*-2/4/6
 ●VSP-MD15R(A)*-2/4/6

Suction pad



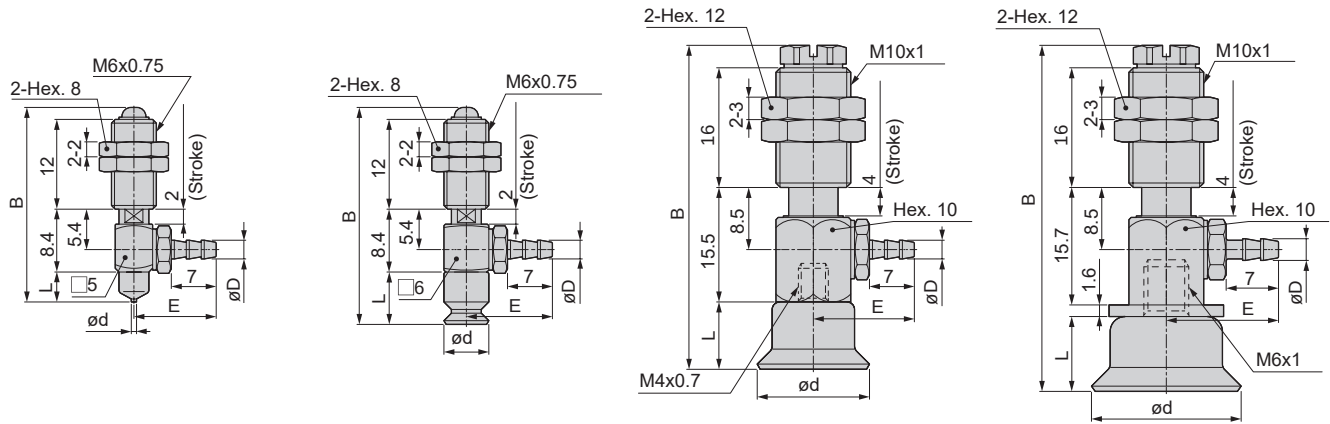
Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD0.7RM*-2	0.7	1.8	26	4	8.4	12.1	0.2 to 0.3	5.3
VSP-MD0.7RM*-4		4			11.2	15.4		6.7
VSP-MD1RM*-2	1	1.8	26	4	8.4	12.1	0.2 to 0.3	5.3
VSP-MD1RM*-4		4			11.2	15.4		6.7
VSP-MD1.5RM*-2	1.5	1.8	26	4	8.4	12.1	0.2 to 0.3	5.3
VSP-MD1.5RM*-4		4			11.2	15.4		6.7
VSP-MD2RM*-2	2	1.8	26	4	8.4	12.1	0.2 to 0.3	5.3
VSP-MD2RM*-4		4			11.2	15.4		6.7
VSP-MD3RM*-2	3	1.8	26	4	8.4	12.1	0.2 to 0.3	5.3
VSP-MD3RM*-4		4			11.2	15.4		6.7
VSP-MD4RM*-2	4	1.8	26	4	8.4	12.1	0.2 to 0.3	5.3
VSP-MD4RM*-4		4			11.2	15.4		6.7
VSP-MD6R*-2	6	1.8	29	7	8.4	12.6	0.5 to 0.6	6.1
VSP-MD6R*-4		4			11.2	15.9		7.5
VSP-MD8R*-2	8	1.8	27.5	5.5	8.4	12.6	0.5 to 0.6	6.1
VSP-MD8R*-4		4			11.2	15.9		7.5
VSP-MD10R*-2	10	1.8	42.5	8	8.4	13.6	1 to 1.3	22
VSP-MD10R*-4		4			11.2	17.7		23
VSP-MD10R*-6		6			11.9	19.5		25
VSP-MD15R(A)*-2	15	1.8	43.5 (44.5)	9 (10)	8.4	13.6	1 to 1.3	23 (23)
VSP-MD15R(A)*-4		4			11.2	17.7		24 (24)
VSP-MD15R(A)*-6		6			11.9	19.5		26 (26)
VSP-MD20R(A)*-2	20	1.8	46.3 (47.3)	10 (11)	8.4	13.6	1 to 1.3	27 (27)
VSP-MD20R(A)*-4		4			11.2	17.7		28 (28)
VSP-MD20R(A)*-6		6			11.9	19.5		30 (30)
VSP-MD25R(A)*-2	25	1.8	47.3 (48.3)	11 (12)	8.4	13.6	1 to 1.3	27 (27)
VSP-MD25R(A)*-4		4			11.2	17.7		28 (28)
VSP-MD25R(A)*-6		6			11.9	19.5		30 (30)
VSP-MD30R(A)*-2	30	1.8	47.3 (50.3)	11 (14)	8.4	13.6	1 to 1.3	29 (29)
VSP-MD30R(A)*-4		4			11.2	17.7		30 (30)
VSP-MD30R(A)*-6		6			11.9	19.5		32 (32)
VSP-MD40R(A)*-2	40	1.8	50.3 (53.8)	14 (17.5)	8.4	13.6	1 to 1.3	36 (36)
VSP-MD40R(A)*-4		4			11.2	17.7		37 (37)
VSP-MD40R(A)*-6		6			11.9	19.5		39 (39)
VSP-MD50R(A)*-2	50	1.8	51.3 (54.3)	15 (18)	8.4	13.6	1 to 1.3	42 (42)
VSP-MD50R(A)*-4		4			11.2	17.7		43 (43)
VSP-MD50R(A)*-6		6			11.9	19.5		45 (45)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (compact buffer, vacuum outlet side VSP-MD, barbed fitting)

- VSP-MD0.7 to 4RM*-4T/6T ●VSP-MD6, 8R*-4T/6T ●VSP-MD10R*-4T/6T ●VSP-MD20 to 50R(A)*-4T/6T
 ●VSP-MD15R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Spring force (N)	Weight (g)
VSP-MD0.7RM*-4T	0.7	2.5	26	4	12	0.2 to 0.3	5.5
VSP-MD0.7RM*-6T		4					
VSP-MD1RM*-4T	1	2.5	26	4	12	0.2 to 0.3	5.5
VSP-MD1RM*-6T		4					
VSP-MD1.5RM*-4T	1.5	2.5	26	4	12	0.2 to 0.3	5.5
VSP-MD1.5RM*-6T		4					
VSP-MD2RM*-4T	2	2.5	26	4	12	0.2 to 0.3	5.5
VSP-MD2RM*-6T		4					
VSP-MD3RM*-4T	3	2.5	26	4	12	0.2 to 0.3	5.5
VSP-MD3RM*-6T		4					
VSP-MD4RM*-4T	4	2.5	26	4	12	0.2 to 0.3	5.5
VSP-MD4RM*-6T		4					
VSP-MD6R*-4T	6	2.5	29	7	12.5	0.5 to 0.6	6.2
VSP-MD6R*-6T		4					
VSP-MD8R*-4T	8	2.5	27.5	5.5	12.5	0.5 to 0.6	6.2
VSP-MD8R*-6T		4					
VSP-MD10R*-4T	10	2.5	42.5	8	14.8	1 to 1.3	22
VSP-MD10R*-6T		4					
VSP-MD15R(A)*-4T	15	2.5	43.5 (44.5)	9 (10)	14.8	1 to 1.3	22 (22)
VSP-MD15R(A)*-6T		4					
VSP-MD20R(A)*-4T	20	2.5	46.3 (47.3)	10 (11)	14.8	1 to 1.3	26 (26)
VSP-MD20R(A)*-6T		4					
VSP-MD25R(A)*-4T	25	2.5	47.3 (48.3)	11 (12)	14.8	1 to 1.3	27 (27)
VSP-MD25R(A)*-6T		4					
VSP-MD30R(A)*-4T	30	2.5	47.3 (50.3)	11 (14)	14.8	1 to 1.3	29 (29)
VSP-MD30R(A)*-6T		4					
VSP-MD40R(A)*-4T	40	2.5	50.3 (53.8)	14 (17.5)	14.8	1 to 1.3	37 (37)
VSP-MD40R(A)*-6T		4					
VSP-MD50R(A)*-4T	50	2.5	51.3 (54.3)	15 (18)	14.8	1 to 1.3	44 (44)
VSP-MD50R(A)*-6T		4					

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

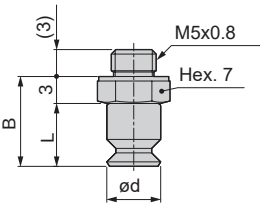
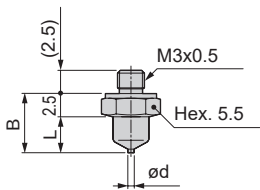
Suction mark
prevention

VSP-***R***, ***A***, ***RM*** Series

Dimensions (compact fixed, direct mounting VSP-ME, male thread)

●VSP-ME0.7 to 4RM*-M3

●VSP-ME6, 8R*-M5



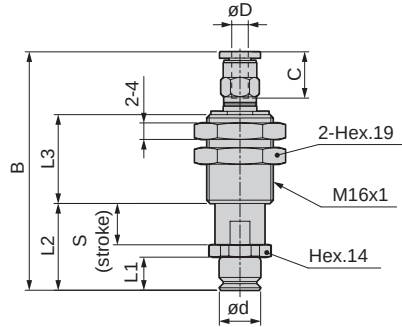
Unit: mm

Model No.	Pad diameter ød	B	L	Weight (g)
VSP-ME0.7RM*-M3	0.7	6.5	4	0.6
VSP-ME1RM*-M3	1	6.5	4	0.6
VSP-ME1.5RM*-M3	1.5	6.5	4	0.6
VSP-ME2RM*-M3	2	6.5	4	0.6
VSP-ME3RM*-M3	3	6.5	4	0.6
VSP-ME4RM*-M3	4	6.5	4	0.6
VSP-ME6R*-M5	6	10	7	1.6
VSP-ME8R*-M5	8	8.5	5.5	1.6

- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-Stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

- VSP-HC10-□R*-2/4/6
- VSP-HC15-□R(A)*-2/4/6



Unit: mm

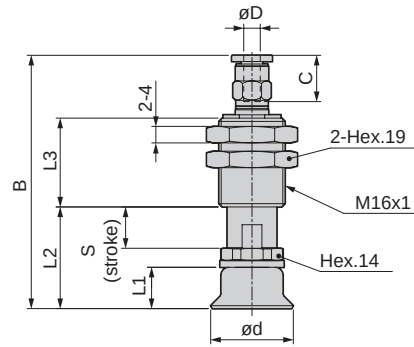
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10R*-2	10	1.8	53.6	8	21	21.5	8.4	10	1.0 to 2.4	22
VSP-HC10-10R*-4		4	57.7				11.2			23
VSP-HC10-10R*-6		6	59				11.9			24
VSP-HC10-15R*-2		1.8	63.6		26	26.5	8.4	15	1.0 to 2.7	24
VSP-HC10-15R*-4		4	67.7				11.2			25
VSP-HC10-15R*-6		6	69				11.9			26
VSP-HC10-20R*-2		1.8	73.6		31	31.5	8.4	20	1.0 to 3.0	26
VSP-HC10-20R*-4		4	77.7				11.2			27
VSP-HC10-20R*-6		6	79				11.9			28
VSP-HC10-25R*-2		1.8	84.1		36	37	8.4	25	1.0 to 3.0	28
VSP-HC10-25R*-4		4	88.2				11.2			29
VSP-HC10-25R*-6		6	89.5				11.9			30
VSP-HC10-30R*-2		1.8	95.1		41	43	8.4	30	1.0 to 3.0	30
VSP-HC10-30R*-4		4	99.2				11.2			31
VSP-HC10-30R*-6		6	100.5				11.9			32
VSP-HC10-40R*-2		1.8	117.1		51	55	8.4	40	1.0 to 3.0	34
VSP-HC10-40R*-4		4	121.2				11.2			35
VSP-HC10-40R*-6		6	122.5				11.9			36
VSP-HC10-50R*-2		1.8	138.6		61	66.5	8.4	50	1.0 to 3.1	39
VSP-HC10-50R*-4		4	142.7				11.2			40
VSP-HC10-50R*-6		6	144				11.9			41
VSP-HC15-10R(A)*-2	15	1.8	54.6 (55.6)	9 (10)	22 (23)	21.5	8.4	10	1.0 to 2.4	22 (22)
VSP-HC15-10R(A)*-4		4	58.7 (59.7)				11.2			23 (23)
VSP-HC15-10R(A)*-6		6	60 (61)				11.9			24 (24)
VSP-HC15-15R(A)*-2		1.8	64.6 (65.6)		27 (28)	26.5	8.4	15	1.0 to 2.7	24 (24)
VSP-HC15-15R(A)*-4		4	68.7 (69.7)				11.2			25 (25)
VSP-HC15-15R(A)*-6		6	70 (71)				11.9			26 (26)
VSP-HC15-20R(A)*-2		1.8	74.6 (75.6)		32 (33)	31.5	8.4	20	1.0 to 3.0	26 (26)
VSP-HC15-20R(A)*-4		4	78.7 (79.7)				11.2			27 (27)
VSP-HC15-20R(A)*-6		6	80 (81)				11.9			28 (28)
VSP-HC15-25R(A)*-2		1.8	85.1 (86.1)		37 (38)	37	8.4	25	1.0 to 3.0	28 (28)
VSP-HC15-25R(A)*-4		4	89.2 (90.2)				11.2			29 (29)
VSP-HC15-25R(A)*-6		6	90.5 (91.5)				11.9			30 (30)
VSP-HC15-30R(A)*-2		1.8	96.1 (97.1)		42 (43)	43	8.4	30	1.0 to 3.0	30 (30)
VSP-HC15-30R(A)*-4		4	100.2 (101.2)				11.2			31 (31)
VSP-HC15-30R(A)*-6		6	101.5 (102.5)				11.9			32 (32)
VSP-HC15-40R(A)*-2		1.8	118.1 (119.1)		52 (53)	55	8.4	40	1.0 to 3.0	34 (34)
VSP-HC15-40R(A)*-4		4	122.2 (123.2)				11.2			35 (35)
VSP-HC15-40R(A)*-6		6	123.5 (124.5)				11.9			36 (36)
VSP-HC15-50R(A)*-2		1.8	139.6 (140.6)		62 (63)	66.5	8.4	50	1.0 to 3.1	39 (39)
VSP-HC15-50R(A)*-4		4	143.7 (144.7)				11.2			40 (40)
VSP-HC15-50R(A)*-6		6	145 (146)				11.9			41 (41)

*1: Dimensions in () are dimensions of the deep pad.

VSP-*R*, *A*, *RM* Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC20, 25-□R(A)*-2/4/6



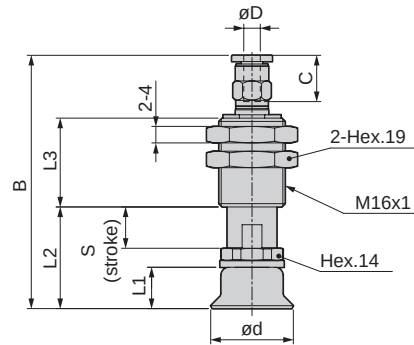
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/Compact	VSP-HC20-10R(A)*-2	20	1.8	57.2 (58.2)	10 (11)	24.6 (25.6)	21.5	8.4	10	1.0 to 2.4	27 (27)
	VSP-HC20-10R(A)*-4		4	61.3 (62.3)				11.2			28 (28)
	VSP-HC20-10R(A)*-6		6	62.6 (63.6)				11.9			29 (29)
Sponge	VSP-HC20-15R(A)*-2		1.8	67.2 (68.2)		29.6 (30.6)	26.5	8.4	15	1.0 to 2.7	29 (29)
	VSP-HC20-15R(A)*-4		4	71.3 (72.3)				11.2			30 (30)
	VSP-HC20-15R(A)*-6		6	72.6 (73.6)				11.9			31 (31)
Bellows	VSP-HC20-20R(A)*-2		1.8	77.2 (78.2)		34.6 (35.6)	31.5	8.4	20	1.0 to 3.0	31 (31)
	VSP-HC20-20R(A)*-4		4	81.3 (82.3)				11.2			32 (32)
	VSP-HC20-20R(A)*-6		6	82.6 (83.6)				11.9			33 (33)
Multi-Stage bellows	VSP-HC20-25R(A)*-2		1.8	87.7 (88.7)		39.6 (40.6)	37	8.4	25	1.0 to 3.0	33 (33)
	VSP-HC20-25R(A)*-4		4	91.8 (92.8)				11.2			34 (34)
	VSP-HC20-25R(A)*-6		6	93.1 (94.1)				11.9			35 (35)
Oval	VSP-HC20-30R(A)*-2		1.8	98.7 (99.7)		44.6 (45.6)	43	8.4	30	1.0 to 3.0	35 (35)
	VSP-HC20-30R(A)*-4		4	102.8 (103.8)				11.2			36 (36)
	VSP-HC20-30R(A)*-6		6	104.1 (105.1)				11.9			37 (37)
Soft	VSP-HC20-40R(A)*-2		1.8	120.7 (121.7)		54.6 (55.6)	55	8.4	40	1.0 to 3.0	39 (39)
	VSP-HC20-40R(A)*-4		4	124.8 (125.8)				11.2			40 (40)
	VSP-HC20-40R(A)*-6		6	126.1 (127.1)				11.9			41 (41)
Soft bellows	VSP-HC20-50R(A)*-2		1.8	142.2 (143.2)		64.6 (65.6)	66.5	8.4	50	1.0 to 3.1	43 (43)
	VSP-HC20-50R(A)*-4		4	146.3 (147.3)				11.2			44 (44)
	VSP-HC20-50R(A)*-6		6	147.6 (148.6)				11.9			45 (45)
Anti-slip	VSP-HC25-10R(A)*-2	25	1.8	58.2 (59.2)	11 (12)	24.6 (25.6)	21.5	8.4	10	1.0 to 2.4	27 (27)
	VSP-HC25-10R(A)*-4		4	62.3 (63.3)				11.2			28 (28)
	VSP-HC25-10R(A)*-6		6	63.6 (64.6)				11.9			29 (29)
Thin object	VSP-HC25-15R(A)*-2		1.8	68.2 (69.2)		29.6 (30.6)	26.5	8.4	15	1.0 to 2.7	29 (29)
	VSP-HC25-15R(A)*-4		4	72.3 (73.3)				11.2			30 (30)
	VSP-HC25-15R(A)*-6		6	73.6 (74.6)				11.9			31 (31)
Flat	VSP-HC25-20R(A)*-2		1.8	78.2 (79.2)		34.6 (35.6)	31.5	8.4	20	1.0 to 3.0	31 (31)
	VSP-HC25-20R(A)*-4		4	82.3 (83.3)				11.2			32 (32)
	VSP-HC25-20R(A)*-6		6	83.6 (84.6)				11.9			33 (33)
Suction mark prevention	VSP-HC25-25R(A)*-2		1.8	88.7 (89.7)		39.6 (40.6)	37	8.4	25	1.0 to 3.0	33 (33)
	VSP-HC25-25R(A)*-4		4	92.8 (93.8)				11.2			34 (34)
	VSP-HC25-25R(A)*-6		6	94.1 (95.1)				11.9			35 (35)
	VSP-HC25-30R(A)*-2		1.8	99.7 (100.7)		44.6 (45.6)	43	8.4	30	1.0 to 3.0	35 (35)
	VSP-HC25-30R(A)*-4		4	103.8 (104.8)				11.2			36 (36)
	VSP-HC25-30R(A)*-6		6	105.1 (106.1)				11.9			37 (37)
	VSP-HC25-40R(A)*-2		1.8	121.7 (122.7)		54.6 (55.6)	55	8.4	40	1.0 to 3.0	39 (39)
	VSP-HC25-40R(A)*-4		4	125.8 (126.8)				11.2			40 (40)
	VSP-HC25-40R(A)*-6		6	127.1 (128.1)				11.9			41 (41)
	VSP-HC25-50R(A)*-2		1.8	143.2 (144.2)		64.6 (65.6)	66.5	8.4	50	1.0 to 3.1	43 (43)
	VSP-HC25-50R(A)*-4		4	147.3 (148.3)				11.2			44 (44)
	VSP-HC25-50R(A)*-6		6	148.6 (149.6)				11.9			45 (45)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC30, 40-□R(A)*-2/4/6



Unit: mm

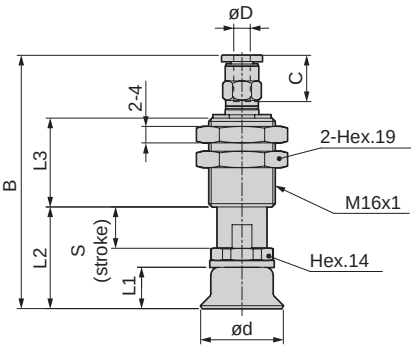
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC30-10R(A)*-2	30	1.8	58.2 (61.2)	11 (14)	25.6 (28.6)	21.5	8.4	10	1.0 to 2.4	29 (30)
VSP-HC30-10R(A)*-4		4	62.3 (65.3)				11.2			30 (31)
VSP-HC30-10R(A)*-6		6	63.6 (66.6)				11.9			31 (32)
VSP-HC30-15R(A)*-2		1.8	68.2 (71.2)		30.6 (33.6)	26.5	8.4	15	1.0 to 2.7	31 (32)
VSP-HC30-15R(A)*-4		4	72.3 (75.3)				11.2			32 (33)
VSP-HC30-15R(A)*-6		6	73.6 (76.6)				11.9			33 (34)
VSP-HC30-20R(A)*-2		1.8	78.2 (81.2)		35.6 (38.6)	31.5	8.4	20	1.0 to 3.0	33 (34)
VSP-HC30-20R(A)*-4		4	82.3 (85.3)				11.2			34 (35)
VSP-HC30-20R(A)*-6		6	83.6 (86.6)				11.9			35 (36)
VSP-HC30-25R(A)*-2		1.8	88.7 (91.7)		40.6 (43.6)	37	8.4	25	1.0 to 3.0	35 (36)
VSP-HC30-25R(A)*-4		4	92.8 (95.8)				11.2			36 (37)
VSP-HC30-25R(A)*-6		6	94.1 (97.1)				11.9			37 (38)
VSP-HC30-30R(A)*-2		1.8	99.7 (102.7)		45.6 (48.6)	43	8.4	30	1.0 to 3.0	37 (38)
VSP-HC30-30R(A)*-4		4	103.8 (106.8)				11.2			38 (39)
VSP-HC30-30R(A)*-6		6	105.1 (108.1)				11.9			39 (40)
VSP-HC30-40R(A)*-2		1.8	121.7 (124.7)		55.6 (58.6)	55	8.4	40	1.0 to 3.0	41 (42)
VSP-HC30-40R(A)*-4		4	125.8 (128.8)				11.2			42 (43)
VSP-HC30-40R(A)*-6		6	127.1 (130.1)				11.9			43 (44)
VSP-HC30-50R(A)*-2		1.8	143.2 (146.2)		65.6 (68.6)	66.5	8.4	50	1.0 to 3.1	45 (46)
VSP-HC30-50R(A)*-4		4	147.3 (150.3)				11.2			46 (47)
VSP-HC30-50R(A)*-6		6	148.6 (151.6)				11.9			47 (48)
VSP-HC40-10R(A)*-2	40	1.8	61.2 (64.7)	14 (17.5)	28.6 (32.1)	21.5	8.4	10	1.0 to 2.4	34 (35)
VSP-HC40-10R(A)*-4		4	65.3 (68.8)				11.2			35 (36)
VSP-HC40-10R(A)*-6		6	66.6 (70.1)				11.9			36 (37)
VSP-HC40-15R(A)*-2		1.8	68.2 (71.7)		33.6 (37.1)	26.5	8.4	15	1.0 to 2.7	36 (37)
VSP-HC40-15R(A)*-4		4	72.3 (75.8)				11.2			37 (38)
VSP-HC40-15R(A)*-6		6	73.6 (77.1)				11.9			38 (39)
VSP-HC40-20R(A)*-2		1.8	78.2 (81.7)		38.6 (42.1)	31.5	8.4	20	1.0 to 3.0	38 (39)
VSP-HC40-20R(A)*-4		4	82.3 (85.8)				11.2			39 (40)
VSP-HC40-20R(A)*-6		6	83.6 (87.1)				11.9			40 (41)
VSP-HC40-25R(A)*-2		1.8	88.7 (92.2)		43.6 (47.1)	37	8.4	25	1.0 to 3.0	40 (41)
VSP-HC40-25R(A)*-4		4	92.8 (96.3)				11.2			41 (42)
VSP-HC40-25R(A)*-6		6	94.1 (97.6)				11.9			42 (43)
VSP-HC40-30R(A)*-2		1.8	99.7 (103.2)		48.6 (52.1)	43	8.4	30	1.0 to 3.0	42 (43)
VSP-HC40-30R(A)*-4		4	103.8 (107.3)				11.2			43 (44)
VSP-HC40-30R(A)*-6		6	105.1 (108.6)				11.9			44 (45)
VSP-HC40-40R(A)*-2		1.8	121.7 (125.2)		58.6 (62.1)	55	8.4	40	1.0 to 3.0	46 (47)
VSP-HC40-40R(A)*-4		4	125.8 (129.3)				11.2			47 (48)
VSP-HC40-40R(A)*-6		6	127.1 (130.6)				11.9			48 (49)
VSP-HC40-50R(A)*-2		1.8	143.2 (146.7)		68.6 (72.1)	66.5	8.4	50	1.0 to 3.1	50 (51)
VSP-HC40-50R(A)*-4		4	147.3 (150.8)				11.2			51 (52)
VSP-HC40-50R(A)*-6		6	148.6 (152.1)				11.9			52 (53)

*1: Dimensions in () are dimensions of the deep pad.

VSP-***R***, ***A***, ***RM*** Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC50-□R(A)*-2/4/6

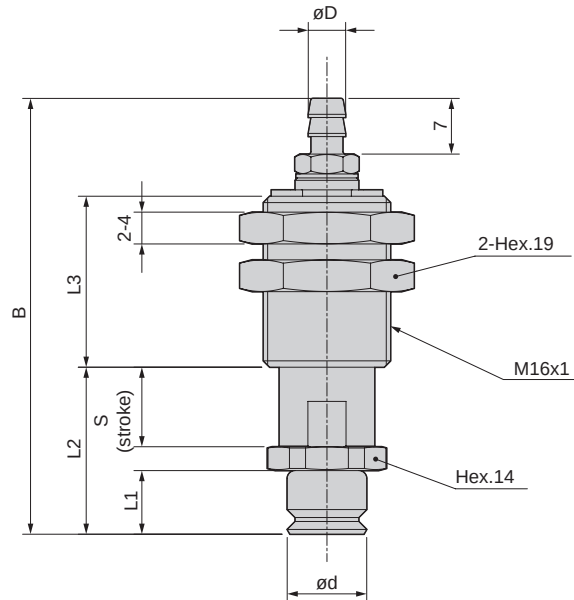


Unit: mm

Model No.	Pac diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC50-10R(A)*-2	50	1.8	62.2 (65.2)	15 (18)	29.6 (32.6)	21.5	8.4	10	1.0 to 2.4	46 (47)
VSP-HC50-10R(A)*-4		4	66.3 (69.3)				11.2			47 (48)
VSP-HC50-10R(A)*-6		6	67.6 (70.6)				11.9			48 (49)
VSP-HC50-15R(A)*-2		1.8	72.2 (75.2)		34.6 (37.6)	26.5	8.4	15	1.0 to 2.7	48 (49)
VSP-HC50-15R(A)*-4		4	76.3 (79.3)				11.2			49 (50)
VSP-HC50-15R(A)*-6		6	77.6 (80.6)				11.9			50 (51)
VSP-HC50-20R(A)*-2		1.8	82.2 (85.2)		39.6 (42.6)	31.5	8.4	20	1.0 to 3.0	50 (51)
VSP-HC50-20R(A)*-4		4	86.3 (89.3)				11.2			51 (52)
VSP-HC50-20R(A)*-6		6	87.6 (90.6)				11.9			52 (53)
VSP-HC50-25R(A)*-2		1.8	92.7 (95.7)		44.6 (47.6)	37	8.4	25	1.0 to 3.0	52 (53)
VSP-HC50-25R(A)*-4		4	96.8 (99.8)				11.2			53 (54)
VSP-HC50-25R(A)*-6		6	98.1 (101.1)				11.9			54 (55)
VSP-HC50-30R(A)*-2		1.8	103.7 (106.7)		49.6 (52.6)	43	8.4	30	1.0 to 3.0	54 (55)
VSP-HC50-30R(A)*-4		4	107.8 (110.8)				11.2			55 (56)
VSP-HC50-30R(A)*-6		6	109.1 (112.1)				11.9			56 (57)
VSP-HC50-40R(A)*-2		1.8	125.7 (128.7)		59.6 (62.6)	55	8.4	40	1.0 to 3.0	58 (59)
VSP-HC50-40R(A)*-4		4	129.8 (132.8)				11.2			59 (60)
VSP-HC50-40R(A)*-6		6	131.1 (134.1)				11.9			60 (61)
VSP-HC50-50R(A)*-2		1.8	147.2 (150.2)		69.6 (72.6)	66.5	8.4	50	1.0 to 3.1	62 (63)
VSP-HC50-50R(A)*-4		4	151.3 (154.3)				11.2			63 (64)
VSP-HC50-50R(A)*-6	6	152.6 (155.6)	11.9	64 (65)						

Dimensions

●VSP-HC10-□R*-4T/6T
●VSP-HC15-□R(A)*-4T/6T



Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10R*-4T	10	2.5	54.8	8	21	21.5	10	1.0 to 2.4	21
VSP-HC10-10R*-6T		4							
VSP-HC10-15R*-4T		2.5	64.8		26	26.5	15	1.0 to 2.7	23
VSP-HC10-15R*-6T		4							
VSP-HC10-20R*-4T		2.5	74.8		31	31.5	20	1.0 to 3.0	25
VSP-HC10-20R*-6T		4							
VSP-HC10-25R*-4T		2.5	85.3		36	37	25	1.0 to 3.0	28
VSP-HC10-25R*-6T		4							
VSP-HC10-30R*-4T		2.5	96.3		41	43	30	1.0 to 3.0	30
VSP-HC10-30R*-6T		4							
VSP-HC10-40R*-4T		2.5	118.3		51	55	40	1.0 to 3.0	34
VSP-HC10-40R*-6T		4							
VSP-HC10-50R*-4T		2.5	139.8		61	66.5	50	1.0 to 3.1	38
VSP-HC10-50R*-6T		4							
VSP-HC15-10R(A)*-4T	15	2.5	55.8 (56.8)	9 (10)	22 (23)	21.5	10	1.0 to 2.4	21 (22)
VSP-HC15-10R(A)*-6T		4							
VSP-HC15-15R(A)*-4T		2.5	65.8 (66.8)		27 (28)	26.5	15	1.0 to 2.7	23 (24)
VSP-HC15-15R(A)*-6T		4							
VSP-HC15-20R(A)*-4T		2.5	75.8 (76.8)		32 (33)	31.5	20	1.0 to 3.0	25 (26)
VSP-HC15-20R(A)*-6T		4							
VSP-HC15-25R(A)*-4T		2.5	86.3 (87.3)		37 (38)	37	25	1.0 to 3.0	28 (29)
VSP-HC15-25R(A)*-6T		4							
VSP-HC15-30R(A)*-4T		2.5	97.3 (98.3)		42 (43)	43	30	1.0 to 3.0	30 (31)
VSP-HC15-30R(A)*-6T		4							
VSP-HC15-40R(A)*-4T		2.5	119.3 (120.3)		52 (53)	55	40	1.0 to 3.0	34 (35)
VSP-HC15-40R(A)*-6T		4							
VSP-HC15-50R(A)*-4T		2.5	140.8 (141.8)		62 (63)	66.5	50	1.0 to 3.1	38 (39)
VSP-HC15-50R(A)*-6T		4							

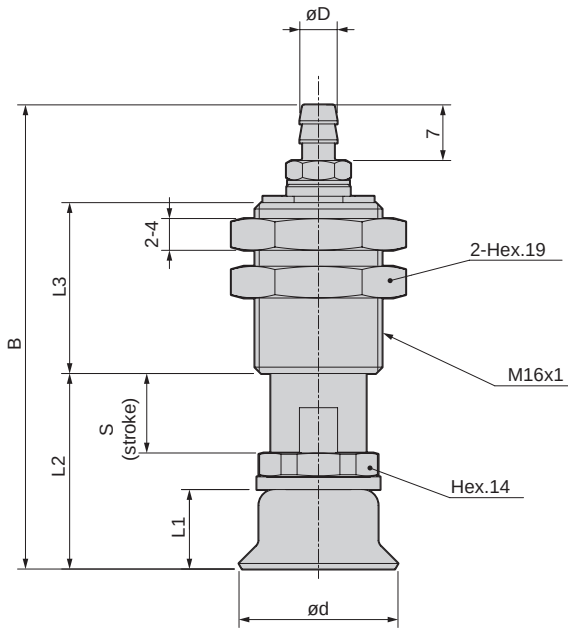
CKD

VSP-***R***, ***A***, ***RM*** Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC20, 25-□R(A)*-4T/6T

- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-Stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

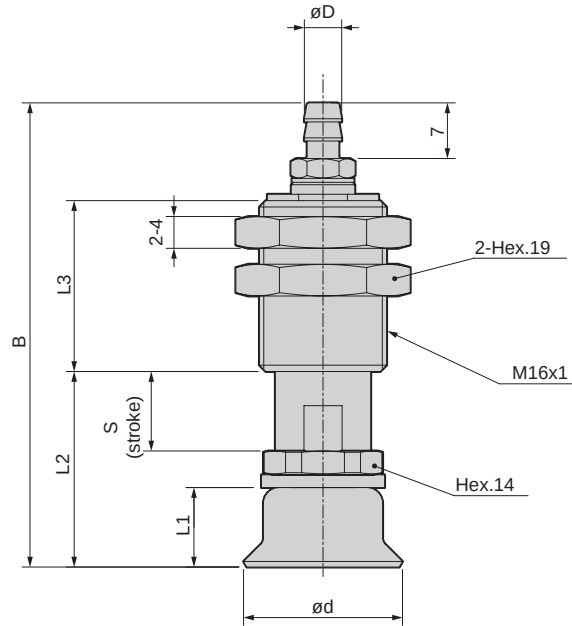


Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10R ()*-4T	20	2.5	58.4 (59.4)	10 (11)	24.6 (25.6)	21.5	10	1.0 to 2.4	25 (26)
VSP-HC20-10R(A)*-6T		4							
VSP-HC20-15R(A)*-4T		2.5	68.4 (69.4)		29.6 (30.6)	26.5	15	1.0 to 2.7	27 (28)
VSP-HC20-15R(A)*-6T		4							
VSP-HC20-20R(A)*-4T		2.5	78.4 (79.4)		34.6 (35.6)	31.5	20	1.0 to 3.0	29 (30)
VSP-HC20-20R(A)*-6T		4							
VSP-HC20-25R(A)*-4T		2.5	88.9 (89.9)		39.6 (40.6)	37	25	1.0 to 3.0	31 (32)
VSP-HC20-25R(A)*-6T		4							
VSP-HC20-30R(A)*-4T		2.5	99.9 (100.9)		44.6 (45.6)	43	30	1.0 to 3.0	34 (35)
VSP-HC20-30R(A)*-6T		4							
VSP-HC20-40R(A)*-4T		2.5	121.9 (122.9)		54.6 (55.6)	55	40	1.0 to 3.0	38 (39)
VSP-HC20-40R(A)*-6T		4							
VSP-HC20-50R(A)*-4T		2.5	143.4 (144.4)		64.6 (65.6)	66.5	50	1.0 to 3.1	42 (41)
VSP-HC20-50R(A)*-6T		4							
VSP-HC25-10R(A)*-4T	25	2.5	59.4 (60.4)	11 (12)	25.6 (26.6)	21.5	10	1.0 to 2.4	26 (27)
VSP-HC25-10R(A)*-6T		4							
VSP-HC25-15R(A)*-4T		2.5	69.4 (70.4)		30.6 (31.6)	26.5	15	1.0 to 2.7	28 (29)
VSP-HC25-15R(A)*-6T		4							
VSP-HC25-20R ()*-4T		2.5	79.4 (80.4)		35.6 (36.6)	31.5	20	1.0 to 3.0	30 (31)
VSP-HC25-20R(A)*-6T		4							
VSP-HC25-25R(A)*-4T		2.5	89.9 (90.9)		40.6 (41.6)	37	25	1.0 to 3.0	32 (33)
VSP-HC25-25R(A)*-6T		4							
VSP-HC25-30R(A)*-4T		2.5	100.9 (101.9)		45.6 (46.6)	43	30	1.0 to 3.0	35 (36)
VSP-HC25-30R(A)*-6T		4							
VSP-HC25-40R(A)*-4T		2.5	122.9 (123.9)		55.6 (56.6)	55	40	1.0 to 3.0	39 (40)
VSP-HC25-40R(A)*-6T		4							
VSP-HC25-50R(A)*-4T		2.5	144.4 (145.4)		65.6 (66.6)	66.5	50	1.0 to 3.1	43 (44)
VSP-HC25-50R(A)*-6T		4							

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC30, 40-□R(A)*-4T/6T



Unit: mm

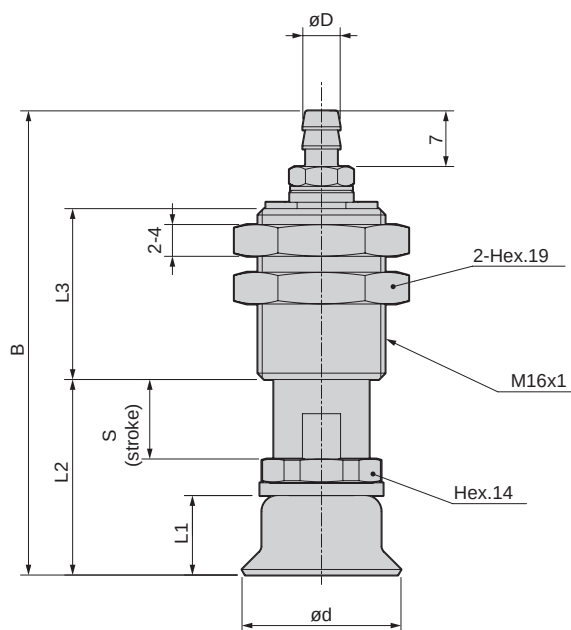
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC30-10R(A)*-4T	30	2.5	59.4 (62.4)	11 (14)	25.6 (28.6)	21.5	10	1.0 to 2.4	28 (29)
VSP-HC30-10R(A)*-6T		4							
VSP-HC30-15R(A)*-4T		2.5	69.4 (72.4)		30.6 (33.6)	26.5	15	1.0 to 2.7	30 (31)
VSP-HC30-15R(A)*-6T		4							
VSP-HC30-20R(A)*-4T		2.5	79.4 (82.4)		35.6 (38.6)	31.5	20	1.0 to 3.0	32 (33)
VSP-HC30-20R(A)*-6T		4							
VSP-HC30-25R(A)*-4T		2.5	89.9 (92.9)		40.6 (43.6)	37	25	1.0 to 3.0	34 (35)
VSP-HC30-25R(A)*-6T		4							
VSP-HC30-30R(A)*-4T		2.5	100.9 (103.9)		45.6 (48.6)	43	30	1.0 to 3.0	37 (38)
VSP-HC30-30R(A)*-6T		4							
VSP-HC30-40R(A)*-4T		2.5	122.9 (125.9)		55.6 (58.6)	55	40	1.0 to 3.0	41 (42)
VSP-HC30-40R(A)*-6T		4							
VSP-HC30-50R(A)*-4T		2.5	144.4 (147.4)		65.6 (68.6)	66.5	50	1.0 to 3.1	46 (47)
VSP-HC30-50R(A)*-6T		4							
VSP-HC40-10R(A)*-4T	40	2.5	62.4 (65.9)	14 (17.5)	28.6 (32.1)	21.5	10	1.0 to 2.4	29 (30)
VSP-HC40-10R(A)*-6T		4							
VSP-HC40-15R(A)*-4T		2.5	72.4 (75.9)		33.6 (37.1)	26.5	15	1.0 to 2.7	31 (32)
VSP-HC40-15R(A)*-6T		4							
VSP-HC40-20R(A)*-4T		2.5	82.4 (85.9)		38.6 (42.1)	31.5	20	1.0 to 3.0	33 (34)
VSP-HC40-20R(A)*-6T		4							
VSP-HC40-25R(A)*-4T		2.5	92.9 (96.4)		43.6 (47.1)	37	25	1.0 to 3.0	35 (36)
VSP-HC40-25R(A)*-6T		4							
VSP-HC40-30R(A)*-4T		2.5	103.9 (107.4)		48.6 (52.1)	43	30	1.0 to 3.0	38 (39)
VSP-HC40-30R(A)*-6T		4							
VSP-HC40-40R(A)*-4T		2.5	125.9 (129.4)		58.6 (62.1)	55	40	1.0 to 3.0	42 (41)
VSP-HC40-40R(A)*-6T		4							
VSP-HC40-50R(A)*-4T		2.5	147.4 (150.9)		68.6 (72.1)	66.5	50	1.0 to 3.1	47 (46)
VSP-HC40-50R(A)*-6T		4							

*1: Dimensions in () are dimensions of the deep pad.

VSP-*R*, *A*, *RM* Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC50-□R(A)*-4T/6T



									Unit: mm
Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC50-10R(A)*-4T	50	2.5	60.6 (63.6)	15 (18)	29.6 (32.6)	21.5	10	1.0 to 2.4	54 (55)
VSP-HC50-10R(A)*-6T		4							
VSP-HC50-15R(A)*-4T		2.5	70.6 (73.6)		34.6 (37.6)	26.5	15	1.0 to 2.7	56 (57)
VSP-HC50-15R(A)*-6T		4							
VSP-HC50-20R(A)*-4T		2.5	80.6 (83.6)		39.6 (42.6)	31.5	20	1.0 to 3.0	58 (59)
VSP-HC50-20R(A)*-6T		4							
VSP-HC50-25R(A)*-4T		2.5	91.1 (94.1)		44.6 (47.6)	37	25	1.0 to 3.0	60 (61)
VSP-HC50-25R(A)*-6T		4							
VSP-HC50-30R(A)*-4T		2.5	102.1 (105.1)		49.6 (52.6)	43	30	1.0 to 3.0	63 (64)
VSP-HC50-30R(A)*-6T		4							
VSP-HC50-40R(A)*-4T		2.5	124.1 (127.1)		59.6 (62.6)	55	40	1.0 to 3.0	67 (68)
VSP-HC50-40R(A)*-6T		4							
VSP-HC50-50R(A)*-4T		2.5	145.6 (148.6)		69.6 (72.6)	66.5	50	1.0 to 3.1	71 (72)
VSP-HC50-50R(A)*-6T		4							

*1: Dimensions in () are dimensions of the deep pad.

VSP-*R*, *A*, *RM* Series

Dimensions

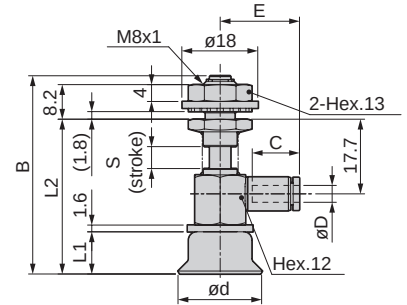
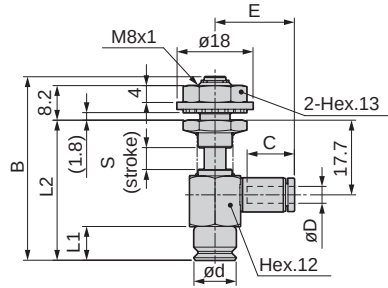
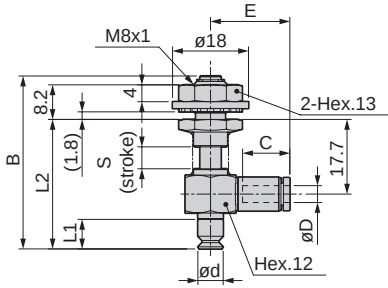
Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, push-in fitting)

●VSP-HD6, 8R*-2/4/6

●VSP-HD10R*-2/4/6

●VSP-HD20 to 50R(A)*-2/4/6

●VSP-HD15R(A)*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6R*-2	6	1.8	41	7	30.7	8.4	14.7	5.2	1.6 to 2.9	28
VSP-HD6R*-4		4				11.2	18.8			29
VSP-HD6R*-6		6				11.9	20.6			30
VSP-HD8R*-2	8	1.8	39.5	5.5	29.2	8.4	14.7	5.2	1.6 to 2.9	28
VSP-HD8R*-4		4				11.2	18.8			29
VSP-HD8R*-6		6				11.9	20.6			30
VSP-HD10R*-2	10	1.8	43.5	8	33.2	8.4	14.7	5.2	1.6 to 2.9	32
VSP-HD10R*-4		4				11.2	18.8			33
VSP-HD10R*-6		6				11.9	20.6			34
VSP-HD15R(A)*-2	15	1.8	44.5 (45.5)	9 (10)	34.2 (35.2)	8.4	14.7	5.2	1.6 to 2.9	33 (34)
VSP-HD15R(A)*-4		4				11.2	18.8			34 (35)
VSP-HD15R(A)*-6		6				11.9	20.6			35 (36)
VSP-HD20R(A)*-2	20	1.8	47 (48)	10 (11)	36.7 (37.7)	8.4	14.7	5.2	1.6 to 2.9	36 (37)
VSP-HD20R(A)*-4		4				11.2	18.8			37 (38)
VSP-HD20R(A)*-6		6				11.9	20.6			38 (39)
VSP-HD25R(A)*-2	25	1.8	48 (49)	11 (12)	37.7 (38.7)	8.4	14.7	5.2	1.6 to 2.9	37 (38)
VSP-HD25R(A)*-4		4				11.2	18.8			38 (39)
VSP-HD25R(A)*-6		6				11.9	20.6			39 (40)
VSP-HD30R(A)*-2	30	1.8	48 (51)	11 (14)	37.7 (40.7)	8.4	14.7	5.2	1.6 to 2.9	39 (40)
VSP-HD30R(A)*-4		4				11.2	18.8			40 (41)
VSP-HD30R(A)*-6		6				11.9	20.6			41 (42)
VSP-HD40R(A)*-2	40	1.8	51 (54.5)	14 (17.5)	40.7 (44.2)	8.4	14.7	5.2	1.6 to 2.9	44 (43)
VSP-HD40R(A)*-4		4				11.2	18.8			45 (44)
VSP-HD40R(A)*-6		6				11.9	20.6			46 (45)
VSP-HD50R(A)*-2	50	1.8	52 (55)	15 (18)	41.7 (44.7)	8.4	14.7	5.2	1.6 to 2.9	54 (55)
VSP-HD50R(A)*-4		4				11.2	18.8			55 (56)
VSP-HD50R(A)*-6		6				11.9	20.6			56 (57)

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

VSP-***R***, ***A***, ***RM*** Series

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, barbed fitting)

●VSP-HD6, 8R*-4T/6T

●VSP-HD10R*-4T/6T
●VSP-HD15R(A)*-4T/6T

●VSP-HD20 to 50R(A)*-4T/6T

Suction pad										
	Unit: mm									
General/Deep/Compact	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
Sponge	VSP-HD6R*-4T	6	2.5	41	7	30.7	15.9	5.2	1.6 to 2.9	28
	VSP-HD6R*-6T		4							
	VSP-HD8R*-4T	8	2.5	39.5	5.5	29.2	15.9	5.2	1.6 to 2.9	28
	VSP-HD8R*-6T		4							
Bellows	VSP-HD10R*-4T	10	2.5	43.5	8	33.2	15.9	5.2	1.6 to 2.9	31
	VSP-HD10R*-6T		4							
	VSP-HD15R(A)*-4T	15	2.5	44.5 (45.5)	9 (10)	34.2 (35.2)	15.9	5.2	1.6 to 2.9	32
	VSP-HD15R(A)*-6T		4							
Multi-Stage bellows	VSP-HD20R(A)*-4T	20	2.5	47 (48)	10 (11)	36.7 (37.7)	15.9	5.2	1.6 to 2.9	36
	VSP-HD20R(A)*-6T		4							
	VSP-HD25R(A)*-4T	25	2.5	48 (49)	11 (12)	37.7 (38.7)	15.9	5.2	1.6 to 2.9	37
	VSP-HD25R(A)*-6T		4							
Oval	VSP-HD30R(A)*-4T	30	2.5	48 (51)	11 (14)	37.7 (40.7)	15.9	5.2	1.6 to 2.9	38
	VSP-HD30R(A)*-6T		4							
Soft	VSP-HD40R(A)*-4T	40	2.5	51 (54.5)	14 (17.5)	40.7 (44.2)	15.9	5.2	1.6 to 2.9	45
	VSP-HD40R(A)*-6T		4							
	VSP-HD50R(A)*-4T	50	2.5	52 (55)	15 (18)	41.7 (44.7)	15.9	5.2	1.6 to 2.9	51
	VSP-HD50R(A)*-6T		4							
Soft bellows	*1: Dimensions in () are dimensions of the deep pad.									
Anti-slip										
Thin object										
Flat										
Suction mark prevention										

VSP-*R*, *A*, *RM* Series

Dimensions

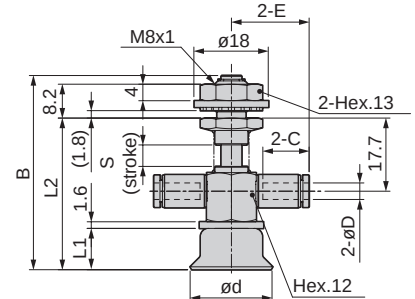
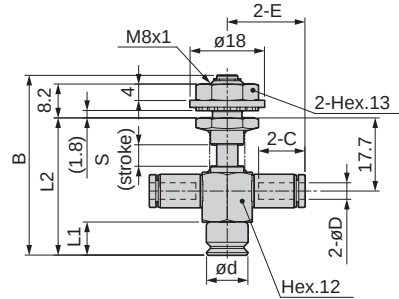
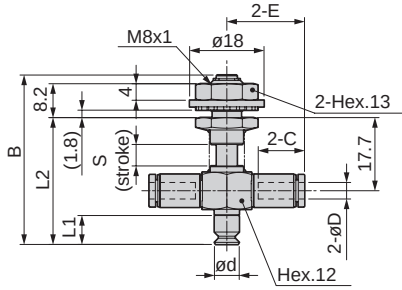
Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW6, 8R*-2/4/6

●VSP-HDW10R*-2/4/6

●VSP-HDW20 to 50R(A)*-2/4/6

●VSP-HDW15R(A)*-2/4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6R*-2	6	1.8	41	7	30.7	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW6R*-4		4				11.2	18.8			32
VSP-HDW6R*-6		6				11.9	20.6			34
VSP-HDW8R*-2	8	1.8	39.5	5.5	29.2	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW8R*-4		4				11.2	18.8			32
VSP-HDW8R*-6		6				11.9	20.6			34
VSP-HDW10R*-2	10	1.8	43.5	8	33.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HDW10R*-4		4				11.2	18.8			35
VSP-HDW10R*-6		6				11.9	20.6			37
VSP-HDW15R(A)*-2	15	1.8	44.5 (45.5)	9 (10)	34.2 (35.2)	8.4	14.7	5.2	1.6 to 2.9	34
VSP-HDW15R(A)*-4		4				11.2	18.8			36
VSP-HDW15R(A)*-6		6				11.9	20.6			38
VSP-HDW20R(A)*-2	20	1.8	47 (48)	10 (11)	36.7 (37.7)	8.4	14.7	5.2	1.6 to 2.9	38
VSP-HDW20R(A)*-4		4				11.2	18.8			40
VSP-HDW20R(A)*-6		6				11.9	20.6			42
VSP-HDW25R(A)*-2	25	1.8	48 (49)	11 (12)	37.7 (38.7)	8.4	14.7	5.2	1.6 to 2.9	39
VSP-HDW25R(A)*-4		4				11.2	18.8			41
VSP-HDW25R(A)*-6		6				11.9	20.6			43
VSP-HDW30R(A)*-2	30	1.8	48 (51)	11 (14)	37.7 (40.7)	8.4	14.7	5.2	1.6 to 2.9	40
VSP-HDW30R(A)*-4		4				11.2	18.8			42
VSP-HDW30R(A)*-6		6				11.9	20.6			44
VSP-HDW40R(A)*-2	40	1.8	51 (54.5)	14 (17.5)	40.7 (44.2)	8.4	14.7	5.2	1.6 to 2.9	49
VSP-HDW40R(A)*-4		4				11.2	18.8			51
VSP-HDW40R(A)*-6		6				11.9	20.6			53
VSP-HDW50R(A)*-2	50	1.8	52 (55)	15 (18)	41.7 (44.7)	8.4	14.7	5.2	1.6 to 2.9	55
VSP-HDW50R(A)*-4		4				11.2	18.8			57
VSP-HDW50R(A)*-6		6				11.9	20.6			59

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

VSP-*R**, *A**, *RM** Series

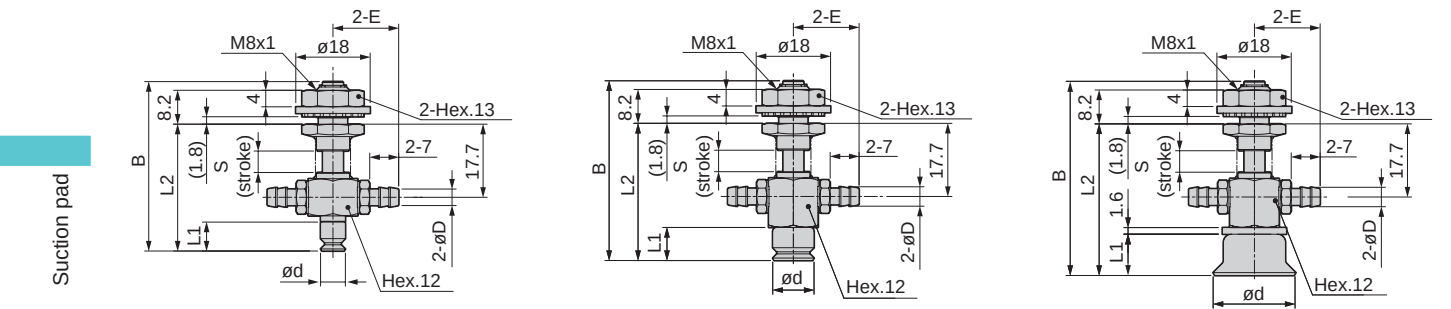
Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, barbed fitting)

●VSP-HDW6, 8*R**-4T/6T

●VSP-HDW10*R**-4T/6T

●VSP-HDW20 to 50*R*(*A*)*-4T/6T

●VSP-HDW15*R*(*A*)*-4T/6T



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HDW6 <i>R</i> *-4T	6	2.5	41	7	30.7	15.9	5.2	1.6 to 2.9	28
	VSP-HDW6 <i>R</i> *-6T		4							
Sponge	VSP-HDW8 <i>R</i> *-4T	8	2.5	39.5	5.5	29.2	15.9	5.2	1.6 to 2.9	28
	VSP-HDW8 <i>R</i> *-6T		4							
Bellows	VSP-HDW10 <i>R</i> *-4T	10	2.5	43.5	8	33.2	15.9	5.2	1.6 to 2.9	32
	VSP-HDW10 <i>R</i> *-6T		4							
Multi-Stage bellows	VSP-HDW15 <i>R</i> (<i>A</i>)*-4T	15	2.5	44.5 (45.5)	9 (10)	34.2 (35.2)	15.9	5.2	1.6 to 2.9	33
	VSP-HDW15 <i>R</i> (<i>A</i>)*-6T		4							
Oval	VSP-HDW20 <i>R</i> (<i>A</i>)*-4T	20	2.5	47 (48)	10 (11)	36.7 (37.7)	15.9	5.2	1.6 to 2.9	37
	VSP-HDW20 <i>R</i> (<i>A</i>)*-6T		4							
Soft bellows	VSP-HDW25 <i>R</i> (<i>A</i>)*-4T	25	2.5	48 (49)	11 (12)	37.7 (38.7)	15.9	5.2	1.6 to 2.9	38
	VSP-HDW25 <i>R</i> (<i>A</i>)*-6T		4							
Anti-slip	VSP-HDW30 <i>R</i> (<i>A</i>)*-4T	30	2.5	48 (51)	11 (14)	37.7 (40.7)	15.9	5.2	1.6 to 2.9	41
	VSP-HDW30 <i>R</i> (<i>A</i>)*-6T		4							
Thin object	VSP-HDW40 <i>R</i> (<i>A</i>)*-4T	40	2.5	51 (54.5)	14 (17.5)	40.7 (44.2)	15.9	5.2	1.6 to 2.9	48
	VSP-HDW40 <i>R</i> (<i>A</i>)*-6T		4							
Flat	VSP-HDW50 <i>R</i> (<i>A</i>)*-4T	50	2.5	52 (55)	15 (18)	41.7 (44.7)	15.9	5.2	1.6 to 2.9	54
	VSP-HDW50 <i>R</i> (<i>A</i>)*-6T		4							

*1: Dimensions in () are dimensions of the deep pad.

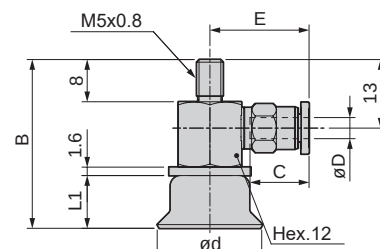
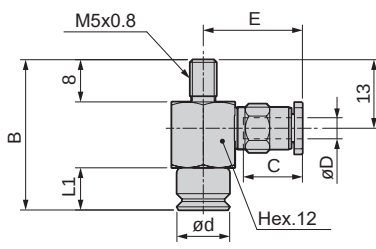
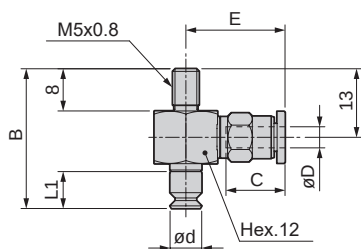
Dimensions (low back fixed, vacuum outlet side VSP-HE, push-in fitting)

●VSP-HE6, 8R*-2/4/6

●VSP-HE10R*-2/4/6

●VSP-HE20 to 50R(A)*-2/4/6

●VSP-HE15R(A)*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE6R*-2	6	1.8	26.5	7	8.4	14.7	14
VSP-HE6R*-4		4			11.2	18.8	15
VSP-HE6R*-6		6			11.9	20.6	16
VSP-HE8R*-2	8	1.8	25	5.5	8.4	14.7	14
VSP-HE8R*-4		4			11.2	18.8	15
VSP-HE8R*-6		6			11.9	20.6	16
VSP-HE10R*-2	10	1.8	28.5	8	8.4	14.7	17
VSP-HE10R*-4		4			11.2	18.8	18
VSP-HE10R*-6		6			11.9	20.6	19
VSP-HE15R(A)*-2	15	1.8	29.5 (30.5)	9 (10)	8.4	14.7	17 (18)
VSP-HE15R(A)*-4		4			11.2	18.8	18 (19)
VSP-HE15R(A)*-6		6			11.9	20.6	19 (20)
VSP-HE20R(A)*-2	20	1.8	32 (33)	10 (11)	8.4	14.7	22 (23)
VSP-HE20R(A)*-4		4			11.2	18.8	23 (24)
VSP-HE20R(A)*-6		6			11.9	20.6	24 (25)
VSP-HE25R(A)*-2	25	1.8	33 (34)	11 (12)	8.4	14.7	22 (23)
VSP-HE25R(A)*-4		4			11.2	18.8	23 (24)
VSP-HE25R(A)*-6		6			11.9	20.6	24 (25)
VSP-HE30R(A)*-2	30	1.8	33 (36)	11 (14)	8.4	14.7	24 (25)
VSP-HE30R(A)*-4		4			11.2	18.8	25 (26)
VSP-HE30R(A)*-6		6			11.9	20.6	26 (27)
VSP-HE40R(A)*-2	40	1.8	36 (39.5)	14 (17.5)	8.4	14.7	31 (32)
VSP-HE40R(A)*-4		4			11.2	18.8	32 (33)
VSP-HE40R(A)*-6		6			11.9	20.6	33 (34)
VSP-HE50R(A)*-2	50	1.8	37 (40)	15 (18)	8.4	14.7	41 (42)
VSP-HE50R(A)*-4		4			11.2	18.8	42 (43)
VSP-HE50R(A)*-6		6			11.9	20.6	43 (44)

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

VSP-*R*- *A*,*RM* Series

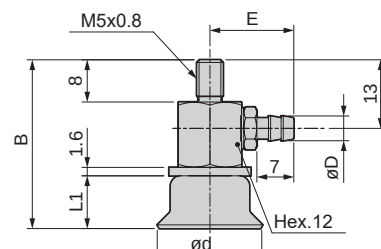
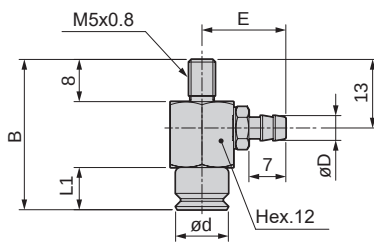
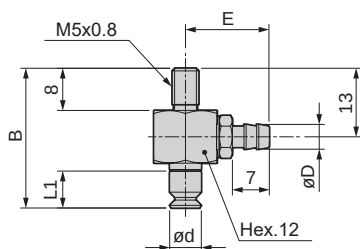
Dimensions (low back fixed, vacuum outlet side VSP-HE, barbed fitting)

●VSP-HE6, 8R*-4T/6T

●VSP-HE10R*-4T/6T

●VSP-HE20 to 50R(A)*-4T/6T

●VSP-HE15R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HE6R*-4T	6	2.5	26.5	7	15.9	13
VSP-HE6R*-6T		4				
VSP-HE8R*-4T	8	2.5	25	5.5	15.9	13
VSP-HE8R*-6T		4				
VSP-HE10R*-4T	10	2.5	28.5	8	15.9	16
VSP-HE10R*-6T		4				
VSP-HE15R(A)*-4T	15	2.5	29.5 (30.5)	9 (10)	15.9	16 (17)
VSP-HE15R(A)*-6T		4				
VSP-HE20R(A)*-4T	20	2.5	32 (33)	10 (11)	15.9	20 (21)
VSP-HE20R(A)*-6T		4				
VSP-HE25R(A)*-4T	25	2.5	33 (34)	11 (12)	15.9	21 (22)
VSP-HE25R(A)*-6T		4				
VSP-HE30R(A)*-4T	30	2.5	33 (36)	11 (14)	15.9	23 (24)
VSP-HE30R(A)*-6T		4				
VSP-HE40R(A)*-4T	40	2.5	36 (39.5)	14 (17.5)	15.9	29 (30)
VSP-HE40R(A)*-6T		4				
VSP-HE50R(A)*-4T	50	2.5	37 (40)	15 (18)	15.9	39 (40)
VSP-HE50R(A)*-6T		4				

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

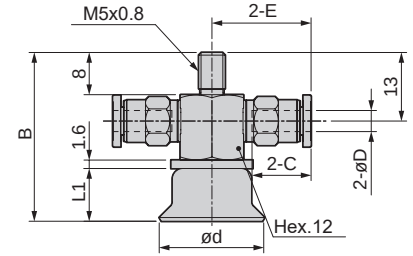
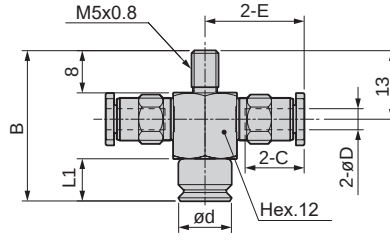
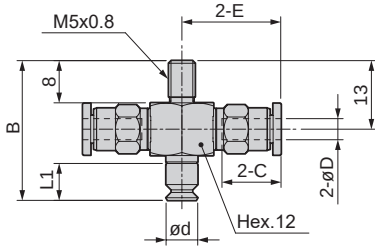
Dimensions (low back fixed, vacuum outlet on both sides VSP-HE, push-in fitting)

●VSP-HEW6, 8R*-2/4/6

●VSP-HEW10R*-2/4/6

●VSP-HEW20 to 50R(A)*-2/4/6

●VSP-HEW15R(A)*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW6R*-2	6	1.8	26.5	7	8.4	14.7	16
VSP-HEW6R*-4		4			11.2	18.8	18
VSP-HEW6R*-6		6			11.9	20.6	20
VSP-HEW8R*-2	8	1.8	25	5.5	8.4	14.7	16
VSP-HEW8R*-4		4			11.2	18.8	18
VSP-HEW8R*-6		6			11.9	20.6	20
VSP-HEW10R*-2	10	1.8	28.5	8	8.4	14.7	19
VSP-HEW10R*-4		4			11.2	18.8	21
VSP-HEW10R*-6		6			11.9	20.6	23
VSP-HEW15R(A)*-2	15	1.8	29.5 (30.5)	9 (10)	8.4	14.7	20
VSP-HEW15R(A)*-4		4			11.2	18.8	22
VSP-HEW15R(A)*-6		6			11.9	20.6	24
VSP-HEW20R(A)*-2	20	1.8	32 (33)	10 (11)	8.4	14.7	22 (23)
VSP-HEW20R(A)*-4		4			11.2	18.8	24 (25)
VSP-HEW20R(A)*-6		6			11.9	20.6	26 (27)
VSP-HEW25R(A)*-2	25	1.8	33 (34)	11 (12)	8.4	14.7	23 (24)
VSP-HEW25R(A)*-4		4			11.2	18.8	25 (26)
VSP-HEW25R(A)*-6		6			11.9	20.6	27 (28)
VSP-HEW30R(A)*-2	30	1.8	33 (36)	11 (14)	8.4	14.7	24 (25)
VSP-HEW30R(A)*-4		4			11.2	18.8	26 (27)
VSP-HEW30R(A)*-6		6			11.9	20.6	28 (29)
VSP-HEW40R(A)*-2	40	1.8	36 (39.5)	14 (17.5)	8.4	14.7	31 (32)
VSP-HEW40R(A)*-4		4			11.2	18.8	33 (34)
VSP-HEW40R(A)*-6		6			11.9	20.6	35 (36)
VSP-HEW50R(A)*-2	50	1.8	37 (40)	15 (18)	8.4	14.7	41 (42)
VSP-HEW50R(A)*-4		4			11.2	18.8	43 (44)
VSP-HEW50R(A)*-6		6			11.9	20.6	45 (46)

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

VSP-*R*- *A*,*RM* Series

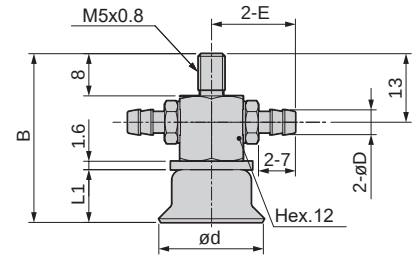
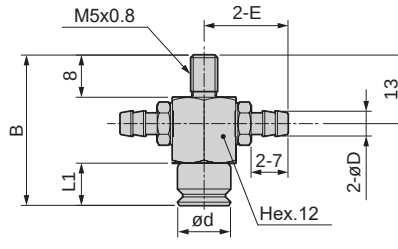
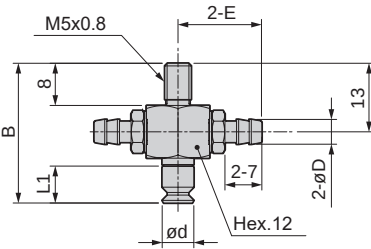
Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW6, 8R*-4T/6T

●VSP-HEW10R*-4T/6T

●VSP-HEW20 to 50R(A)*-4T/6T

●VSP-HEW15R(A)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW6R*-4T	6	2.5	26.5	7	15.9	14
VSP-HEW6R*-6T		4				
VSP-HEW8R*-4T	8	2.5	25	5.5	15.9	14
VSP-HEW8R*-6T		4				
VSP-HEW10R*-4T	10	2.5	28.5	8	15.9	17
VSP-HEW10R*-6T		4				
VSP-HEW15R(A)*-4T	15	2.5	29.5 (30.5)	9 (10)	15.9	17 (18)
VSP-HEW15R(A)*-6T		4				
VSP-HEW20R(A)*-4T	20	2.5	32 (33)	10 (11)	15.9	21 (22)
VSP-HEW20R(A)*-6T		4				
VSP-HEW25R(A)*-4T	25	2.5	33 (34)	11 (12)	15.9	22 (23)
VSP-HEW25R(A)*-6T		4				
VSP-HEW30R(A)*-4T	30	2.5	33 (36)	11 (14)	15.9	24 (25)
VSP-HEW30R(A)*-6T		4				
VSP-HEW40R(A)*-4T	40	2.5	36 (39.5)	14 (17.5)	15.9	31 (32)
VSP-HEW40R(A)*-6T		4				
VSP-HEW50R(A)*-4T	50	2.5	37 (40)	15 (18)	15.9	40 (41)
VSP-HEW50R(A)*-6T		4				

*1: Dimensions in () are dimensions of the deep pad.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

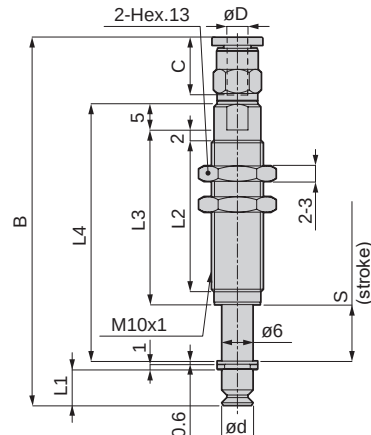
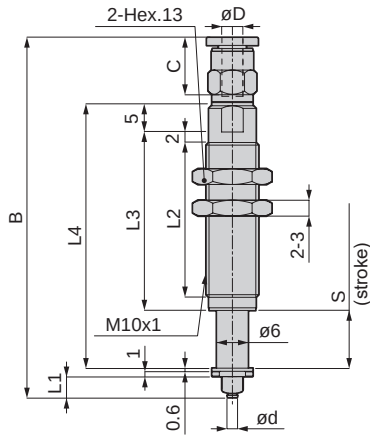
VSP-*R*, *A*, *RM* Series

Dimensions

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC0.7 to 4-□RM*-4

●VSP-LFC6, 8-□R*-4



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC0.7-2RM*-4	0.7	4	52.6	4	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC0.7-5RM*-4			58.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC0.7-10RM*-4			68.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC0.7-15RM*-4			78.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC0.7-20RM*-4			88.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC1-2RM*-4	1	4	52.6	4	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC1-5RM*-4			58.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC1-10RM*-4			68.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC1-15RM*-4			78.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC1-20RM*-4			88.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC1.5-2RM*-4	1.5	4	52.6	4	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC1.5-5RM*-4			58.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC1.5-10RM*-4			68.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC1.5-15RM*-4			78.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC1.5-20RM*-4			88.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC2-2RM*-4	2	4	52.6	4	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC2-5RM*-4			58.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC2-10RM*-4			68.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC2-15RM*-4			78.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC2-20RM*-4			88.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC3-2RM*-4	3	4	52.6	4	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC3-5RM*-4			58.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC3-10RM*-4			68.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC3-15RM*-4			78.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC3-20RM*-4			88.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC4-2RM*-4	4	4	52.6	4	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC4-5RM*-4			58.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC4-10RM*-4			68.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC4-15RM*-4			78.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC4-20RM*-4			88.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC6-2R*-4	6	4	55.6	7	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC6-5R*-4			61.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC6-10R*-4			71.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC6-15R*-4			81.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC6-20R*-4			91.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC8-2R*-4	8	4	55.6	5.5	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC8-5R*-4			61.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC8-10R*-4			71.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC8-15R*-4			81.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC8-20R*-4			91.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33

*1: Values in [] are for low load.

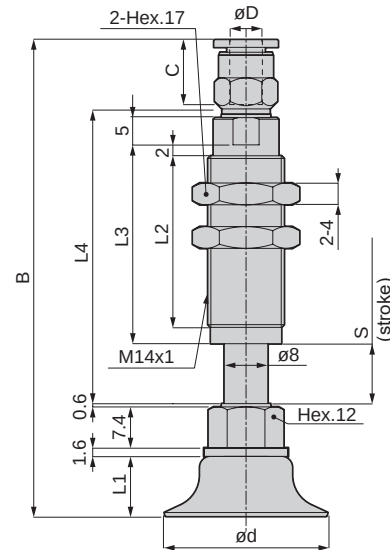
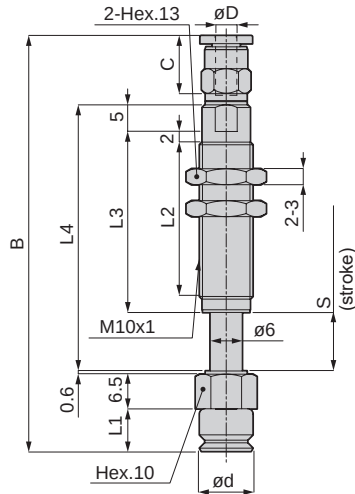
VSP-*R*, *A*, *RM* Series

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC10-□R*-4

●VSP-LFC15R-□(A)*-4

●VSP-LFC20 to 25-□R(A)*-4/6



Unit: mm

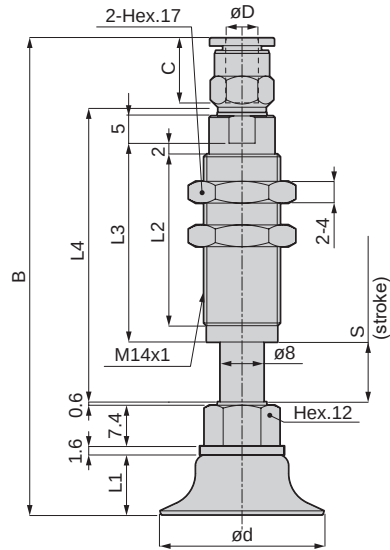
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2R(A)*-4	10	4	62.1	8	21.5	26	34	11.2	2	1.3 to 1.8	28
VSP-LFC10-5R(A)*-4			68.1		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC10-10R(A)*-4			78.1		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC10-15R(A)*-4			88.1		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC10-20R(A)*-4			98.1		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	35
VSP-LFC15-2R(A)*-4	15	4	63.1 (64.1)	9 (10)	21.5	26	34	11.2	2	1.3 to 1.8	28(29)
VSP-LFC15-5R(A)*-4			69.1 (70.1)		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	30(31)
VSP-LFC15-10R(A)*-4			79.1 (80.1)		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	32(33)
VSP-LFC15-15R(A)*-4			89.1 (90.1)		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	34(35)
VSP-LFC15-20R(A)*-4			99.1 (100.1)		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	35(36)
VSP-LFC20-5R(A)*-4	20	4	75.1 (76.1)	10 (11)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57(58)
VSP-LFC20-5R(A)*-6		6	76.4 (77.4)					11.9			58 (59)
VSP-LFC20-10R(A)*-4		4	85.1 (86.1)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	59 (60)
VSP-LFC20-10R(A)*-6		6	86.4 (87.4)					11.9			60 (61)
VSP-LFC20-15R(A)*-4		4	95.1 (96.1)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62(63)
VSP-LFC20-15R(A)*-6		6	96.4 (97.4)					11.9			63 (64)
VSP-LFC20-20R(A)*-4	20	4	105.1 (106.1)	10 (11)	41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65 (66)
VSP-LFC20-20R(A)*-6		6	106.4 (107.4)					11.9			66 (67)
VSP-LFC25-5R(A)*-4	25	4	76.1 (77.1)	11 (12)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	58 (59)
VSP-LFC25-5R(A)*-6		6	77.4 (78.4)					11.9			59 (60)
VSP-LFC25-10R(A)*-4		4	86.1 (87.1)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	60 (61)
VSP-LFC25-10R(A)*-6		6	87.4 (88.4)					11.9			61 (62)
VSP-LFC25-15R(A)*-4		4	96.1 (97.1)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	63 (64)
VSP-LFC25-15R(A)*-6		6	97.4 (98.4)					11.9			64 (65)
VSP-LFC25-20R(A)*-4		4	106.1 (107.1)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	66 (67)
VSP-LFC25-20R(A)*-6		6	107.4 (108.4)					11.9			67 (68)

*1: Dimensions in () are dimensions of the deep pad.

*2: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC30 to 50-□R(A)*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC30-5R(A)*-4	30	4	76.1 (79.1)	11 (14)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	60 (61)
VSP-LFC30-5R(A)*-6		6	77.4 (80.4)					11.9			61 (62)
VSP-LFC30-10R(A)*-4		4	86.1 (89.1)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	62 (63)
VSP-LFC30-10R(A)*-6		6	87.4 (90.4)					11.9			63 (64)
VSP-LFC30-15R(A)*-4		4	96.1 (99.1)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	65 (66)
VSP-LFC30-15R(A)*-6		6	97.4 (100.4)					11.9			66 (67)
VSP-LFC30-20R(A)*-4		4	106.1 (109.1)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	68 (69)
VSP-LFC30-20R(A)*-6		6	107.4 (110.4)					11.9			69 (70)
VSP-LFC40-5R(A)*-4	40	4	79.1 (82.6)	14 (17.5)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	71 (72)
VSP-LFC40-5R(A)*-6		6	80.4 (83.9)					11.9			72 (73)
VSP-LFC40-10R(A)*-4		4	89.1 (92.6)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	73 (74)
VSP-LFC40-10R(A)*-6		6	90.4 (93.9)					11.9			74 (75)
VSP-LFC40-15R(A)*-4		4	99.1 (102.6)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	76 (77)
VSP-LFC40-15R(A)*-6		6	100.4 (103.9)					11.9			77 (78)
VSP-LFC40-20R(A)*-4		4	109.1 (112.6)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	79 (80)
VSP-LFC40-20R(A)*-6		6	110.4 (113.9)					11.9			80 (81)
VSP-LFC50-5R(A)*-4	50	4	80.1 (83.1)	15 (18)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	77 (78)
VSP-LFC50-5R(A)*-6		6	81.4 (84.4)					11.9			78 (79)
VSP-LFC50-10R(A)*-4		4	90.1 (93.1)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	79 (80)
VSP-LFC50-10R(A)*-6		6	91.4 (94.4)					11.9			80 (81)
VSP-LFC50-15R(A)*-4		4	100.1 (103.1)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	82 (83)
VSP-LFC50-15R(A)*-6		6	101.4 (104.4)					11.9			83 (84)
VSP-LFC50-20R(A)*-4		4	110.1 (113.1)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	85 (86)
VSP-LFC50-20R(A)*-6		6	111.4 (114.4)					11.9			86 (87)

*1: Dimensions in () are dimensions of the deep pad.

*2: Values in [] are for low load.

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

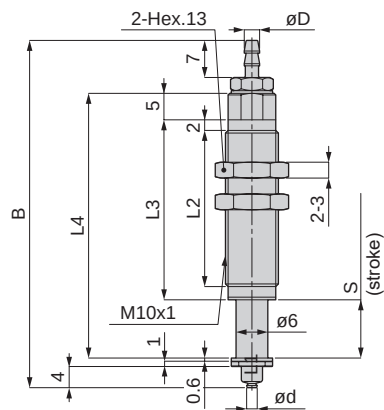
Flat

Suction mark prevention

VSP-*R*, *A*, *RM* Series

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC0.7 to 4-□RM*-4



Unit: mm

Suction pad

General/Deep/Compact

Sponge

Bellows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC0.7-2RM*-4T	0.7	2.5	49.7	4	21.5	26	34	2	1.3 to 1.8	23
VSP-LFC0.7-2RM*-6T		4								
VSP-LFC0.7-5RM*-4T		2.5								
VSP-LFC0.7-5RM*-6T		4								
VSP-LFC0.7-10RM*-4T		2.5								
VSP-LFC0.7-10RM*-6T		4								
VSP-LFC0.7-15RM*-4T		2.5								
VSP-LFC0.7-15RM*-6T		4								
VSP-LFC0.7-20RM*-4T	1	2.5	85.7	4	39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC0.7-20RM*-6T		4								
VSP-LFC1-2RM*-4T		2.5								
VSP-LFC1-2RM*-6T		4								
VSP-LFC1-5RM*-4T		2.5								
VSP-LFC1-5RM*-6T		4								
VSP-LFC1-10RM*-4T		2.5								
VSP-LFC1-10RM*-6T		4								
VSP-LFC1-15RM*-4T	1.5	2.5	75.7	4	34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	29
VSP-LFC1-15RM*-6T		4								
VSP-LFC1-20RM*-4T		2.5								
VSP-LFC1-20RM*-6T		4								
VSP-LFC1.5-2RM*-4T		2.5	49.7	4	21.5	26	34	2	1.3 to 1.8	23
VSP-LFC1.5-2RM*-6T		4								
VSP-LFC1.5-5RM*-4T		2.5								
VSP-LFC1.5-5RM*-6T		4								
VSP-LFC1.5-10RM*-4T		2.5								
VSP-LFC1.5-10RM*-6T		4								
VSP-LFC1.5-15RM*-4T		2.5								
VSP-LFC1.5-15RM*-6T		4								
VSP-LFC1.5-20RM*-4T	2	2.5	85.7	4	39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC1.5-20RM*-6T		4								
VSP-LFC2-2RM*-4T		2.5								
VSP-LFC2-2RM*-6T		4								
VSP-LFC2-5RM*-4T		2.5								
VSP-LFC2-5RM*-6T		4								
VSP-LFC2-10RM*-4T		2.5								
VSP-LFC2-10RM*-6T		4								
VSP-LFC2-15RM*-4T	3	2.5	75.7	4	34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	29
VSP-LFC2-15RM*-6T		4								
VSP-LFC2-20RM*-4T		2.5								
VSP-LFC2-20RM*-6T		4								
VSP-LFC3-2RM*-4T		2.5	49.7	4	21.5	26	34	2	1.3 to 1.8	23
VSP-LFC3-2RM*-6T		4								
VSP-LFC3-5RM*-4T		2.5								
VSP-LFC3-5RM*-6T		4								
VSP-LFC3-10RM*-4T		2.5								
VSP-LFC3-10RM*-6T		4								
VSP-LFC3-15RM*-4T		2.5								
VSP-LFC3-15RM*-6T		4								
VSP-LFC3-20RM*-4T	4	2.5	85.7	4	39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC3-20RM*-6T		4								
VSP-LFC4-2RM*-4T		2.5								
VSP-LFC4-2RM*-6T		4								
VSP-LFC4-5RM*-4T		2.5								
VSP-LFC4-5RM*-6T		4								
VSP-LFC4-10RM*-4T		2.5								
VSP-LFC4-10RM*-6T		4								
VSP-LFC4-15RM*-4T	4	2.5	75.7	4	34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	29
VSP-LFC4-15RM*-6T		4								
VSP-LFC4-20RM*-4T		2.5								
VSP-LFC4-20RM*-6T		4								
VSP-LFC4-25RM*-4T		2.5								
VSP-LFC4-25RM*-6T		4								
VSP-LFC4-30RM*-4T		2.5								
VSP-LFC4-30RM*-6T		4								

*1: Values in [] are for low load.

VSP-*R*, *A*, *RM* Series

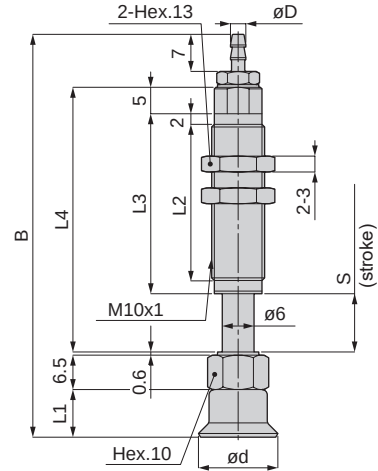
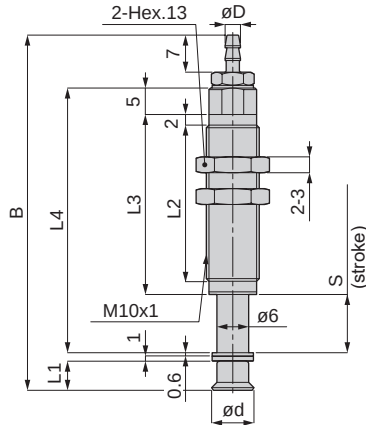
Dimensions

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC6, 8-□R*-4T/6T

●VSP-LFC10-□R*-4T/6T

●VSP-LFC15R-□(A)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC6-2R*-4T	6	2.5	52.7	7	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC6-2R*-6T		4								
VSP-LFC6-5R*-4T		2.5	58.7		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC6-5R*-6T		4								
VSP-LFC6-10R*-4T		2.5	68.7		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC6-10R*-6T		4								
VSP-LFC6-15R*-4T		2.5	78.7		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC6-15R*-6T		4								
VSP-LFC6-20R*-4T		2.5	88.7		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC6-20R*-6T		4								
VSP-LFC8-2R*-4T	8	2.5	51.2	5.5	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC8-2R*-6T		4								
VSP-LFC8-5R*-4T		2.5	57.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC8-5R*-6T		4								
VSP-LFC8-10R*-4T		2.5	67.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC8-10R*-6T		4								
VSP-LFC8-15R*-4T		2.5	77.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC8-15R*-6T		4								
VSP-LFC8-20R*-4T		2.5	87.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC8-20R*-6T		4								
VSP-LFC10-2R*-4T	10	2.5	59.2	8	21.5	26	34	2	1.3 to 1.8	26
VSP-LFC10-2R*-6T		4								
VSP-LFC10-5R*-4T		2.5	65.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	28
VSP-LFC10-5R*-6T		4								
VSP-LFC10-10R*-4T		2.5	75.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	30
VSP-LFC10-10R*-6T		4								
VSP-LFC10-15R*-4T		2.5	85.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	32
VSP-LFC10-15R*-6T		4								
VSP-LFC10-20R*-4T	2.5	95.2	39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	34		
VSP-LFC10-20R*-6T	4									
VSP-LFC15-2R(A)*-4T	15	2.5	60.2 (61.2)	9 (10)	21.5	26	34	2	1.3 to 1.8	26 (27)
VSP-LFC15-2R(A)*-6T		4								
VSP-LFC15-5R(A)*-4T		2.5	66.2 (67.2)		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	28 (29)
VSP-LFC15-5R(A)*-6T		4								
VSP-LFC15-10R(A)*-4T		2.5	76.2 (77.2)		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	30 (31)
VSP-LFC15-10R(A)*-6T		4								
VSP-LFC15-15R(A)*-4T		2.5	86.2 (87.2)		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	32 (33)
VSP-LFC15-15R(A)*-6T		4								
VSP-LFC15-20R(A)*-4T		2.5	96.2 (97.2)		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	34 (35)
VSP-LFC15-20R(A)*-6T	4									

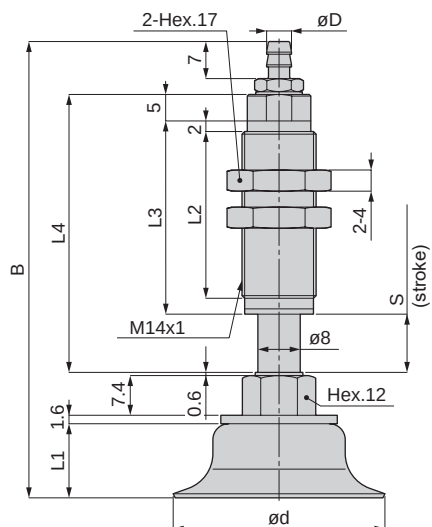
*1: Dimensions in () are dimensions of the deep pad.

*2: Values in [] are for low load.

VSP-*R*, *A*, *RM* Series

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC20 to 50-□R(A)*-4T/6T



Unit: mm

												Unit: mm
General/Deep/ Compact	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)	
Sponge	VSP-LFC20-5R(A)*-4T	20	2.5	72.2 (73.2)	10 (11)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	52 (53)	
	VSP-LFC20-5R(A)*-6T		4									
	VSP-LFC20-10R(A)*-4T		2.5	82.2 (83.2)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	54 (55)	
	VSP-LFC20-10R(A)*-6T		4									
Bellows	VSP-LFC20-15R(A)*-4T		2.5	92.2 (93.2)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	57 (58)	
	VSP-LFC20-15R(A)*-6T		4									
	VSP-LFC20-20R(A)*-4T		2.5	102.2 (103.2)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	60 (61)	
	VSP-LFC20-20R(A)*-6T		4									
Multi-Stage bellows	VSP-LFC25-5R(A)*-4T	25	2.5	73.2 (74.2)	11 (12)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	53 (54)	
	VSP-LFC25-5R(A)*-6T		4									
	VSP-LFC25-10R(A)*-4T		2.5	83.2 (84.2)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	55 (56)	
	VSP-LFC25-10R(A)*-6T		4									
Oval	VSP-LFC25-15R(A)*-4T		2.5	93.2 (94.2)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	58 (59)	
	VSP-LFC25-15R(A)*-6T		4									
	VSP-LFC25-20R(A)*-4T		2.5	103.2 (104.2)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	61 (62)	
	VSP-LFC25-20R(A)*-6T		4									
Soft	VSP-LFC30-5R(A)*-4T	30	2.5	73.2 (76.2)	11 (14)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	54 (55)	
	VSP-LFC30-5R(A)*-6T		4									
	VSP-LFC30-10R(A)*-4T		2.5	83.2 (86.2)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	56 (57)	
	VSP-LFC30-10R(A)*-6T		4									
Soft bellows	VSP-LFC30-15R(A)*-4T		2.5	93.2 (96.2)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	59 (60)	
	VSP-LFC30-15R(A)*-6T		4									
Anti-slip	VSP-LFC30-20R(A)*-4T		2.5	103.2 (106.2)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	62 (63)	
	VSP-LFC30-20R(A)*-6T		4									
	VSP-LFC40-5R(A)*-4T	40	2.5	76.2 (79.7)	14 (17.5)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	65 (66)	
	VSP-LFC40-5R(A)*-6T		4									
Thin object	VSP-LFC40-10R(A)*-4T		2.5	86.2 (89.7)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	67 (68)	
	VSP-LFC40-10R(A)*-6T		4									
Flat	VSP-LFC40-15R(A)*-4T		2.5	96.2 (99.7)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	70 (71)	
	VSP-LFC40-15R(A)*-6T		4									
	VSP-LFC40-20R(A)*-4T		2.5	106.2 (109.7)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	73 (74)	
	VSP-LFC40-20R(A)*-6T		4									
Suction mark prevention	VSP-LFC50-5R(A)*-4T	50	2.5	77.2 (80.2)	15 (18)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	71 (72)	
	VSP-LFC50-5R(A)*-6T		4									
	VSP-LFC50-10R(A)*-4T		2.5	87.2 (90.2)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	73 (74)	
	VSP-LFC50-10R(A)*-6T		4									
	VSP-LFC50-15R(A)*-4T		2.5	97.2 (100.2)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	76 (77)	
	VSP-LFC50-15R(A)*-6T		4									
	VSP-LFC50-20R(A)*-4T		2.5	107.2 (110.2)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	79 (80)	
	VSP-LFC50-20R(A)*-6T		4									

*1: Dimensions in () are dimensions of the deep pad.

*2: Values in [] are for low load.

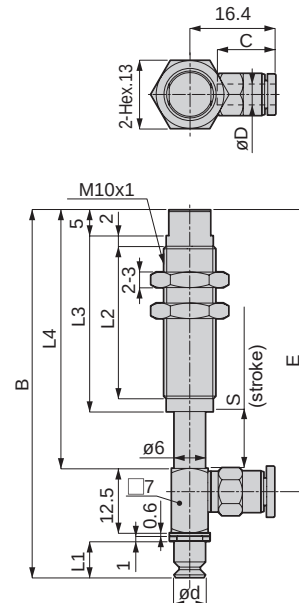
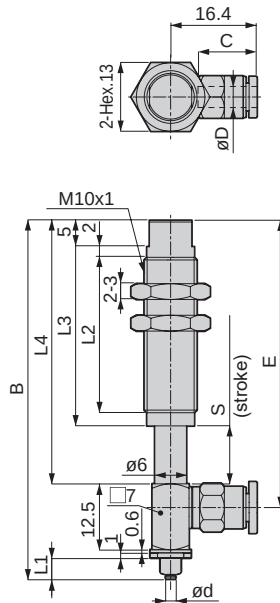
VSP-*R*, *A*, *RM* Series

Dimensions

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD0.7 to 4-□RM*-4

●VSP-LFD6, 8-□M*-4



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD0.7-5RM*-4	0.7	4	58.1	4	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD0.7-10RM*-4			68.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD0.7-15RM*-4			78.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD0.7-20RM*-4			88.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD1-5RM*-4	1	4	58.1	4	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD1-10RM*-4			68.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD1-15RM*-4			78.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD1-20RM*-4			88.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD1.5-5RM*-4	1.5	4	58.1	4	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD1.5-10RM*-4			68.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD1.5-15RM*-4			78.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD1.5-20RM*-4			88.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD2-5RM*-4	2	4	58.1	4	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD2-10RM*-4			68.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD2-15RM*-4			78.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD2-20RM*-4			88.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD3-5RM*-4	3	4	58.1	4	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD3-10RM*-4			68.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD3-15RM*-4			78.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD3-20RM*-4			88.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD4-5RM*-4	4	4	58.1	4	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD4-10RM*-4			68.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD4-15RM*-4			78.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD4-20RM*-4			88.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD6-5R*-4	6	4	61.1	7	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD6-10R*-4			71.1		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD6-15R*-4			81.1		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD6-20R*-4			91.1		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD8-5R*-4	8	4	59.6	5.5	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD8-10R*-4			69.6		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD8-15R*-4			79.6		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD8-20R*-4			89.6		39.5	44	70		74.5	20	1.3 to 5.1	37

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

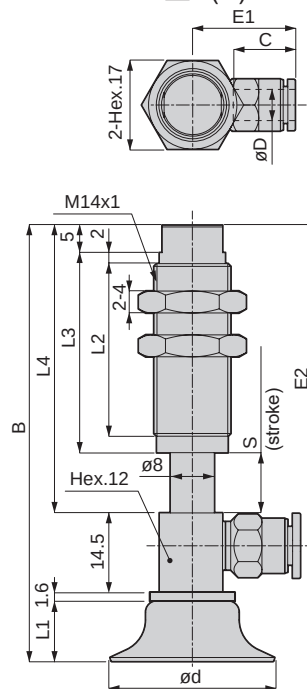
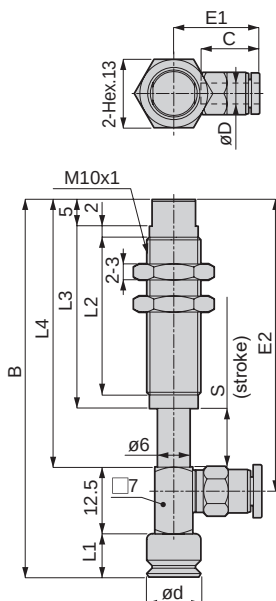
VSP-*R*, *A*, *RM* Series

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD10-□R*-4

●VSP-LFD15-□R(A)*-4

●VSP-LFD20 to 50-□R(A)*-4/6



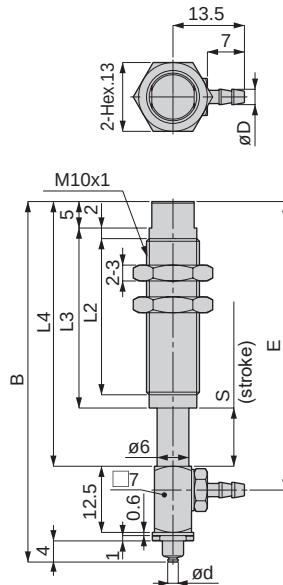
Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
Suction pad	VSP-LFD10-5R*-4	10	4	60.5	8	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	26
	VSP-LFD10-10R*-4			70.5		29.5	34	50			54.5	10	1.3 to 3.3	28
	VSP-LFD10-15R*-4			80.5		34.5	39	60			64.5	15	1.3 to 4.2	30
	VSP-LFD10-20R*-4			90.5		39.5	44	70			74.5	20	1.3 to 5.1	32
General/Deep/Compact	VSP-LFD15-5R(A)*-4	15	4	61.5 (62.5)	9 (10)	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	26 (27)
	VSP-LFD15-10R(A)*-4			71.5 (72.5)		29.5	34	50			54.5	10	1.3 to 3.3	28 (29)
	VSP-LFD15-15R(A)*-4			81.5 (82.5)		34.5	39	60			64.5	15	1.3 to 4.2	30 (31)
	VSP-LFD15-20R(A)*-4			91.5 (92.5)		39.5	44	70			74.5	20	1.3 to 5.1	32 (33)
Sponge	VSP-LFD20-5R(A)*-4	20	4	68.5	10 (11)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	58 (59)
	VSP-LFD20-5R(A)*-6		6	(69.5)		26.5	31.5	42.5	11.9	19.7	48.5	5	6.5	59 (60)
	VSP-LFD20-10R(A)*-4		4	78.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	62 (63)
	VSP-LFD20-10R(A)*-6		6	(79.5)		31.5	36.5	52.5	11.9	19.7	58.5	10	8.2	63 (64)
Bellows	VSP-LFD20-15R(A)*-4	20	4	88.5	10 (11)	36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	66 (67)
	VSP-LFD20-15R(A)*-6		6	(89.5)		36.5	41.5	62.5	11.9	19.7	68.5	15	9.9	67 (68)
	VSP-LFD20-20R(A)*-4		4	98.5	11 (12)	41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	70 (71)
	VSP-LFD20-20R(A)*-6		6	(99.5)		41.5	46.5	72.5	11.9	19.7	78.5	20	14.9	71 (72)
Multi-Stage bellows	VSP-LFD25-5R(A)*-4	25	4	69.5	11 (12)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	59 (60)
	VSP-LFD25-5R(A)*-6		6	(70.5)		26.5	31.5	42.5	11.9	19.7	48.5	5	6.5	60 (61)
	VSP-LFD25-10R(A)*-4		4	79.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	63 (64)
	VSP-LFD25-10R(A)*-6		6	(80.5)		31.5	36.5	52.5	11.9	19.7	58.5	10	8.2	64 (65)
Soft bellows	VSP-LFD25-15R(A)*-4	25	4	89.5	11 (12)	36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	67 (68)
	VSP-LFD25-15R(A)*-6		6	(90.5)		36.5	41.5	62.5	11.9	19.7	68.5	15	9.9	68 (69)
	VSP-LFD25-20R(A)*-4		4	99.5	11 (12)	41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	71 (72)
	VSP-LFD25-20R(A)*-6		6	(100.5)		41.5	46.5	72.5	11.9	19.7	78.5	20	14.9	72 (73)
Soft	VSP-LFD30-5R(A)*-4	30	4	69.5	11 (14)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	60 (61)
	VSP-LFD30-5R(A)*-6		6	(72.5)		26.5	31.5	42.5	11.9	19.7	48.5	5	6.5	61 (62)
	VSP-LFD30-10R(A)*-4		4	79.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	64 (65)
	VSP-LFD30-10R(A)*-6		6	(82.5)		31.5	36.5	52.5	11.9	19.7	58.5	10	8.2	65 (66)
Anti-slip	VSP-LFD30-15R(A)*-4	30	4	89.5	11 (14)	36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	68 (69)
	VSP-LFD30-15R(A)*-6		6	(92.5)		36.5	41.5	62.5	11.9	19.7	68.5	15	9.9	69 (70)
	VSP-LFD30-20R(A)*-4		4	99.5	14 (17.5)	41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	72 (73)
	VSP-LFD30-20R(A)*-6		6	(102.5)		41.5	46.5	72.5	11.9	19.7	78.5	20	14.9	73 (74)
Thin object	VSP-LFD40-5R(A)*-4	40	4	72.5 (76)	14 (17.5)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	71 (72)
	VSP-LFD40-5R(A)*-6		6	(76.5)		26.5	31.5	42.5	11.9	19.7	48.5	5	6.5	72 (73)
	VSP-LFD40-10R(A)*-4		4	82.5 (86)		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	75 (76)
	VSP-LFD40-10R(A)*-6		6	(86.5)		31.5	36.5	52.5	11.9	19.7	58.5	10	8.2	76 (77)
Flat	VSP-LFD40-15R(A)*-4	40	4	92.5 (96)	15 (18)	36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	79 (80)
	VSP-LFD40-15R(A)*-6		6	(96.5)		36.5	41.5	62.5	11.9	19.7	68.5	15	9.9	80 (81)
	VSP-LFD40-20R(A)*-4		4	102.5	15 (18)	41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	83 (84)
	VSP-LFD40-20R(A)*-6		6	(106.5)		41.5	46.5	72.5	11.9	19.7	78.5	20	14.9	84 (85)
Suction mark prevention	VSP-LFD50-5R(A)*-4	50	4	73.5	15 (18)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	76 (77)
	VSP-LFD50-5R(A)*-6		6	(76.5)		26.5	31.5	42.5	11.9	19.7	48.5	5	6.5	77 (78)
	VSP-LFD50-10R(A)*-4		4	83.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	81 (82)
	VSP-LFD50-10R(A)*-6		6	(86.5)		31.5	36.5	52.5	11.9	19.7	58.5	10	8.2	82 (83)
Suction pad	VSP-LFD50-15R(A)*-4	50	4	93.5	15 (18)	36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	85 (86)
	VSP-LFD50-15R(A)*-6		6	(96.5)		36.5	41.5	62.5	11.9	19.7	68.5	15	9.9	86 (87)
	VSP-LFD50-20R(A)*-4		4	103.5	15 (18)	41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	89 (90)
	VSP-LFD50-20R(A)*-6		6	(106.5)		41.5	46.5	72.5	11.9	19.7	78.5	20	14.9	90 (91)

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD0.7 to 4-□RM*-4T/6T



Unit: mm

Model No.	Pad diameter ØD	Bore size ØD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD0.7-5RM*-4T	0.7	2.5	58.1	4	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD0.7-5RM*-6T		4									
VSP-LFD0.7-10RM*-4T		2.5									
VSP-LFD0.7-10RM*-6T		4									
VSP-LFD0.7-15RM*-4T		2.5									
VSP-LFD0.7-15RM*-6T		4									
VSP-LFD0.7-20RM*-4T	1	2.5	68.1	4	29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD0.7-20RM*-6T		4									
VSP-LFD1-5RM*-4T		2.5									
VSP-LFD1-5RM*-6T		4									
VSP-LFD1-10RM*-4T		2.5									
VSP-LFD1-10RM*-6T		4									
VSP-LFD1-15RM*-4T	1.5	2.5	78.1	4	34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD1-15RM*-6T		4									
VSP-LFD1-20RM*-4T		2.5									
VSP-LFD1-20RM*-6T		4									
VSP-LFD1.5-5RM*-4T		2.5									
VSP-LFD1.5-5RM*-6T		4									
VSP-LFD1.5-10RM*-4T	2	2.5	88.1	4	39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD1.5-10RM*-6T		4									
VSP-LFD1.5-15RM*-4T		2.5									
VSP-LFD1.5-15RM*-6T		4									
VSP-LFD1.5-20RM*-4T		2.5									
VSP-LFD1.5-20RM*-6T		4									
VSP-LFD2-5RM*-4T	3	2.5	58.1	4	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD2-5RM*-6T		4									
VSP-LFD2-10RM*-4T		2.5									
VSP-LFD2-10RM*-6T		4									
VSP-LFD2-15RM*-4T		2.5									
VSP-LFD2-15RM*-6T		4									
VSP-LFD2-20RM*-4T	4	2.5	68.1	4	29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD2-20RM*-6T		4									
VSP-LFD3-5RM*-4T		2.5									
VSP-LFD3-5RM*-6T		4									
VSP-LFD3-10RM*-4T		2.5									
VSP-LFD3-10RM*-6T		4									
VSP-LFD3-15RM*-4T	5	2.5	78.1	4	34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD3-15RM*-6T		4									
VSP-LFD3-20RM*-4T		2.5									
VSP-LFD3-20RM*-6T		4									
VSP-LFD4-5RM*-4T		2.5									
VSP-LFD4-5RM*-6T		4									
VSP-LFD4-10RM*-4T	6	2.5	88.1	4	39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD4-10RM*-6T		4									
VSP-LFD4-15RM*-4T		2.5									
VSP-LFD4-15RM*-6T		4									
VSP-LFD4-20RM*-4T		2.5									
VSP-LFD4-20RM*-6T		4									

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-Stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

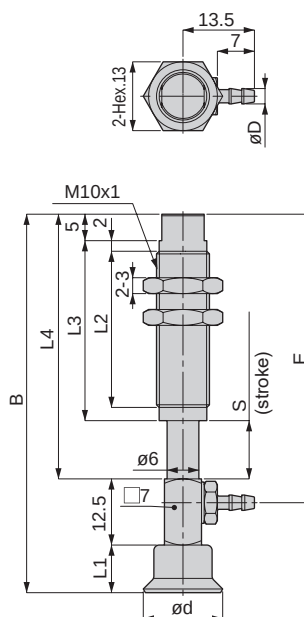
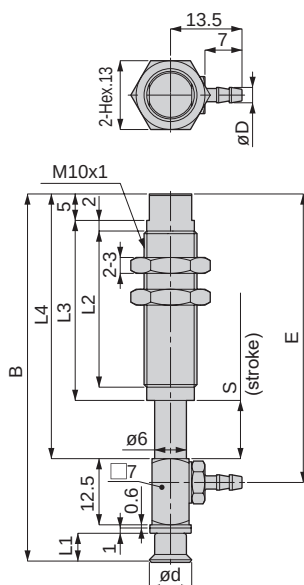
VSP-*R*, *A*, *RM* Series

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD6, 8-□R*-4T/6T

●VSP-LFD10-□R*-4T/6T

●VSP-LFD15-□R(A)*-4T/6T



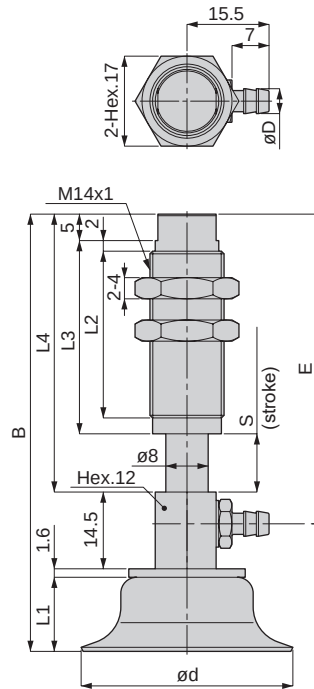
Unit: mm

Bellows	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
Multi-Stage bellows	VSP-LFD6-5R*-4T	6	2.5	61.1	7	24.5	29	40	44.5	5	1.3 to 2.4	30
	VSP-LFD6-5R*-6T		4									
	VSP-LFD6-10R*-4T		2.5	71.1		29.5	34	50	54.5	10	1.3 to 3.3	32
	VSP-LFD6-10R*-6T		4									
Oval	VSP-LFD6-15R*-4T		2.5	81.1		34.5	39	60	64.5	15	1.3 to 4.2	34
	VSP-LFD6-15R*-6T		4									
	VSP-LFD6-20R*-4T		2.5	91.1		39.5	44	70	74.5	20	1.3 to 5.1	36
	VSP-LFD6-20R*-6T		4									
Soft	VSP-LFD8-5R*-4T	8	2.5	59.6	5.5	24.5	29	40	44.5	5	1.3 to 2.4	30
	VSP-LFD8-5R*-6T		4									
Soft bellows	VSP-LFD8-10R*-4T		2.5	69.6		29.5	34	50	54.5	10	1.3 to 3.3	32
	VSP-LFD8-10R*-6T		4									
	VSP-LFD8-15R*-4T		2.5	79.6		34.5	39	60	64.5	15	1.3 to 4.2	34
	VSP-LFD8-15R*-6T		4									
Anti-slip	VSP-LFD8-20R*-4T		2.5	89.6		39.5	44	70	74.5	20	1.3 to 5.1	36
	VSP-LFD8-20R*-6T		4									
	VSP-LFD10-5R*-4T	10	2.5	60.5	8	24.5	29	40	44.5	5	1.3 to 2.4	25
	VSP-LFD10-5R*-6T		4									
Thin object	VSP-LFD10-10R*-4T		2.5	70.5		29.5	34	50	54.5	10	1.3 to 3.3	27
	VSP-LFD10-10R*-6T		4									
	VSP-LFD10-15R*-4T		2.5	80.5		34.5	39	60	64.5	15	1.3 to 4.2	29
	VSP-LFD10-15R*-6T		4									
Flat	VSP-LFD10-20R*-4T		2.5	90.5		39.5	44	70	74.5	20	1.3 to 5.1	31
	VSP-LFD10-20R*-6T		4									
	VSP-LFD15-5R(A)*-4T	15	2.5	61.5 (62.5)	9 (10)	24.5	29	40	44.5	5	1.3 to 2.4	25 (26)
	VSP-LFD15-5R(A)*-6T		4									
Suction mark prevention	VSP-LFD15-10R(A)*-4T		2.5	71.5 (72.5)		29.5	34	50	54.5	10	1.3 to 3.3	27 (28)
	VSP-LFD15-10R(A)*-6T		4									
	VSP-LFD15-15*(A)*-4T		2.5	81.5 (82.5)		34.5	39	60	64.5	15	1.3 to 4.2	29 (30)
	VSP-LFD15-15R(A)*-6T		4									
	VSP-LFD15-20R(A)*-4T		2.5	91.5 (92.5)		39.5	44	70	74.5	20	1.3 to 5.1	31 (32)
	VSP-LFD15-20R(A)*-6T		4									

*1: Dimensions in () are dimensions of the deep pad.

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD20 to 50-□R(A)*-4T/6T



Unit: mm

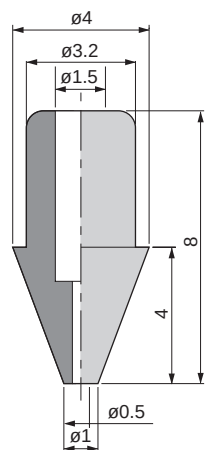
Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD20-5R(A)*-4T	20	2.5	68.5 (69.5)	10 (11)	26.5	31.5	42.5	48.5	5	4.5 to 6.5	54 (55)
VSP-LFD20-5R(A)*-6T		4									
VSP-LFD20-10R(A)*-4T		2.5									
VSP-LFD20-10R(A)*-6T		4									
VSP-LFD20-15R(A)*-4T		2.5									
VSP-LFD20-15R(A)*-6T		4									
VSP-LFD20-20R(A)*-4T	25	2.5	88.5 (89.5)	11 (12)	36.5	41.5	62.5	68.5	15	4.5 to 9.9	61 (62)
VSP-LFD20-20R(A)*-6T		4									
VSP-LFD25-5R(A)*-4T		2.5									
VSP-LFD25-5R(A)*-6T		4									
VSP-LFD25-10R(A)*-4T		2.5									
VSP-LFD25-10R(A)*-6T		4									
VSP-LFD25-15R(A)*-4T	30	2.5	89.5 (90.5)	11 (14)	36.5	41.5	62.5	68.5	15	4.5 to 9.9	62 (63)
VSP-LFD25-15R(A)*-6T		4									
VSP-LFD25-20R(A)*-4T		2.5									
VSP-LFD25-20R(A)*-6T		4									
VSP-LFD30-5R(A)*-4T		2.5	99.5 (100.5)	11 (14)	41.5	46.5	72.5	78.5	20	4.5 to 14.9	66 (67)
VSP-LFD30-5R(A)*-6T		4									
VSP-LFD30-10R(A)*-4T	40	2.5		14 (17.5)	26.5	31.5	42.5	48.5	5	4.5 to 6.5	56 (57)
VSP-LFD30-10R(A)*-6T		4									
VSP-LFD30-15R(A)*-4T		2.5									
VSP-LFD30-15R(A)*-6T		4									
VSP-LFD30-20R(A)*-4T		2.5									
VSP-LFD30-20R(A)*-6T		4									
VSP-LFD40-5R(A)*-4T	50	2.5	72.5 (76)	15 (18)	31.5	36.5	52.5	58.5	10	4.5 to 8.2	59 (60)
VSP-LFD40-5R(A)*-6T		4									
VSP-LFD40-10R(A)*-4T		2.5									
VSP-LFD40-10R(A)*-6T		4									
VSP-LFD40-15R(A)*-4T		2.5									
VSP-LFD40-15R(A)*-6T		4									
VSP-LFD40-20R(A)*-4T	50	2.5	82.5 (86)	15 (18)	36.5	41.5	62.5	68.5	15	4.5 to 9.9	74 (75)
VSP-LFD40-20R(A)*-6T		4									
VSP-LFD50-5R(A)*-4T		2.5	102.5 (106)	15 (18)	41.5	46.5	72.5	78.5	20	4.5 to 14.9	78 (79)
VSP-LFD50-5R(A)*-6T		4									
VSP-LFD50-10R(A)*-4T		2.5									
VSP-LFD50-10R(A)*-6T		4									
VSP-LFD50-15R(A)*-4T	50	2.5	93.5 (96.5)	15 (18)	36.5	41.5	62.5	68.5	15	4.5 to 9.9	80 (81)
VSP-LFD50-15R(A)*-6T		4									
VSP-LFD50-20R(A)*-4T		2.5	103.5 (106.5)	15 (18)	41.5	46.5	72.5	78.5	20	4.5 to 14.9	84 (85)
VSP-LFD50-20R(A)*-6T		4									

*1: Dimensions in () are dimensions of the deep pad.

VSPG-*R*, *A*, *RM* Series

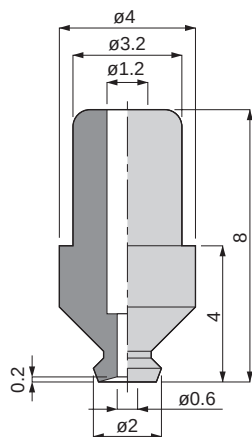
Pad only Dimensions (standard)

●VSPG-1R*



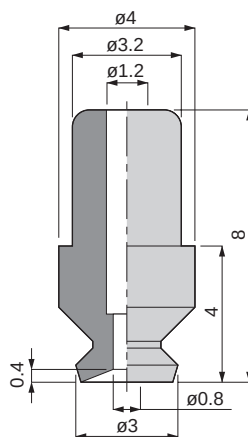
Weight: 0.1 g [0.2 g]

●VSPG-2R*



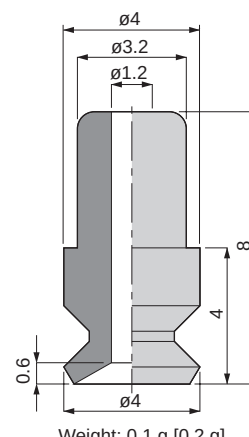
Weight: 0.1 g [0.2 g]

●VSPG-3R*



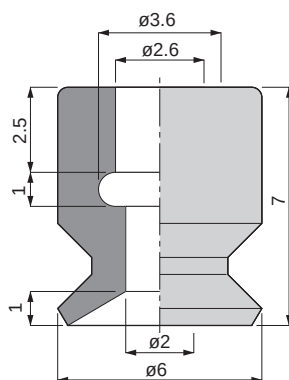
Weight: 0.1 g [0.2 g]

●VSPG-4R*



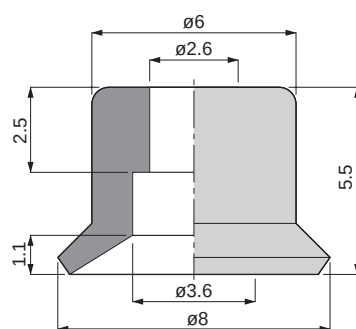
Weight: 0.1 g [0.2 g]

●VSPG-6R*



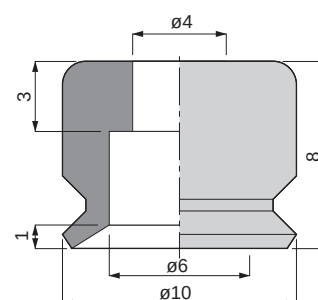
Weight: 0.2 g [0.3 g]

●VSPG-8R*



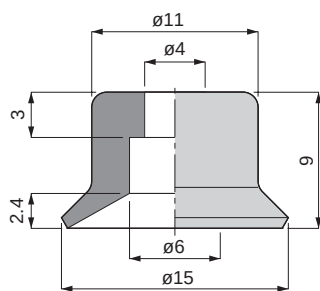
Weight: 0.2 g [0.3 g]

●VSPG-10R*



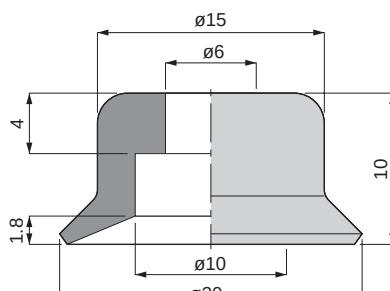
Weight: 0.5 g [0.9 g]

●VSPG-15R*



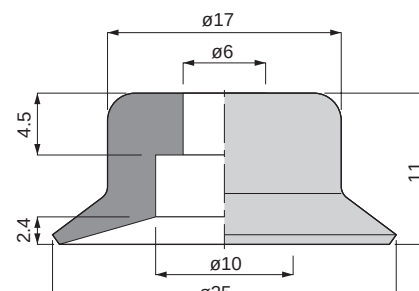
Weight: 0.9 [1.5 g]

●VSPG-20R*



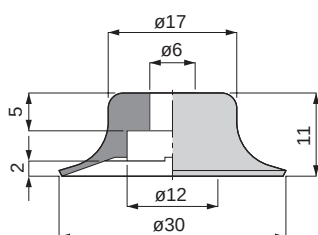
Weight: 1.6 g [2.8 g]

●VSPG-25R*



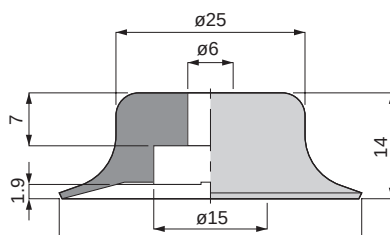
Weight: 2.5 g [4.3 g]

●VSPG-30R*



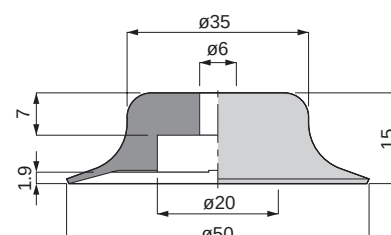
Weight: 2.7 g [4.6 g]

●VSPG-40R*



Weight: 7.6 g [13.0 g]

●VSPG-50R*



Weight: 16 g [26 g]

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

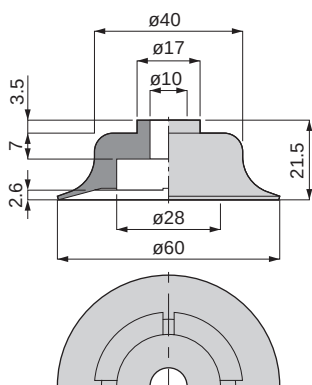
Thin object

Flat

Suction mark
prevention

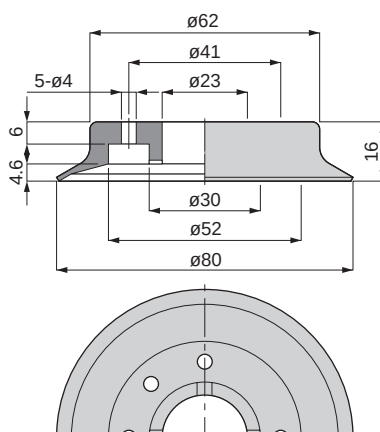
Pad only Dimensions (standard)

●VSPG-60R*



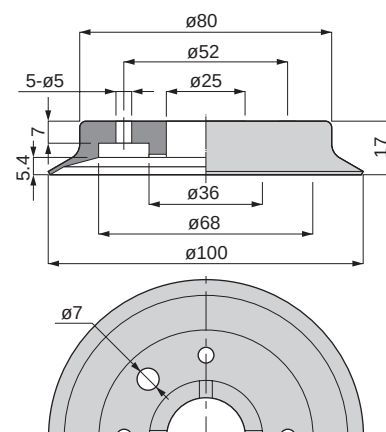
Weight: 22 g [38 g]

●VSPG-80R*



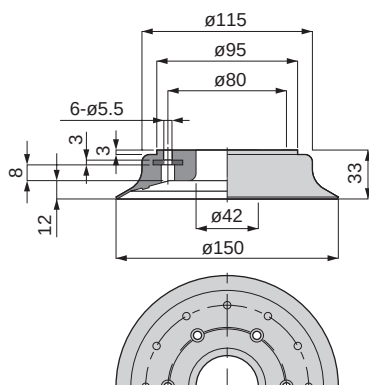
Weight: 33 g [57 g]

●VSPG-100R*



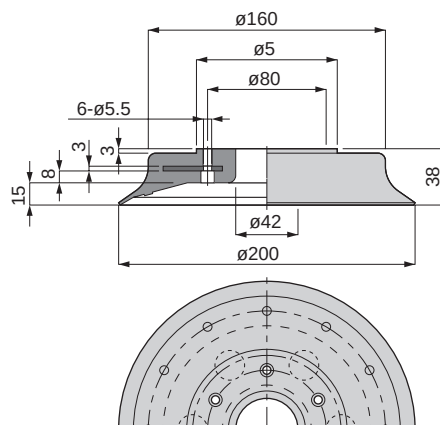
Weight: 60 g [104 g]

●VSPG-150R*



Weight: 393 g [630 g]

●VSPG-200R*



Weight: 919 g [1476 g]

Note: Values in [] for fluoro rubber only.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

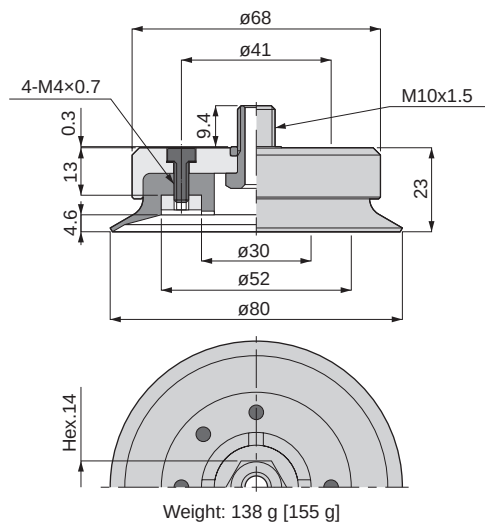
Flat

Suction mark
prevention

VSPG-*R*, *A*, *RM* Series

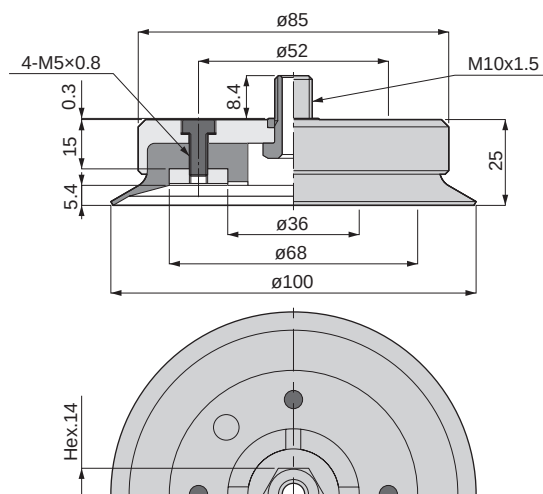
Pad/Threaded set dimensions (standard)

●VSPG-80R*A



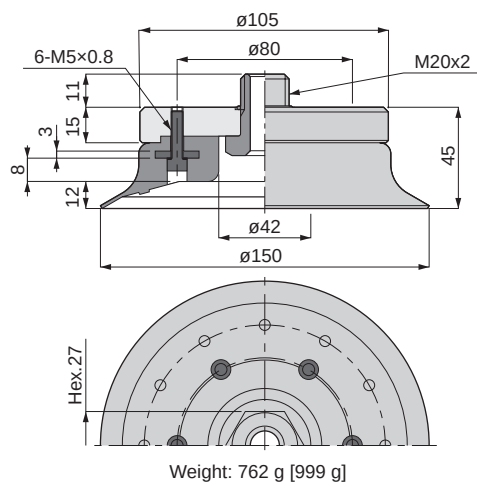
Weight: 138 g [155 g]

●VSPG-100R*A



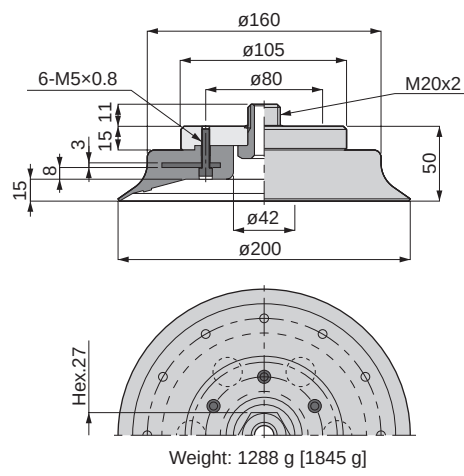
Weight: 230 g [260 g]

●VSPG-150R*A



Weight: 762 g [999 g]

●VSPG-200R*A

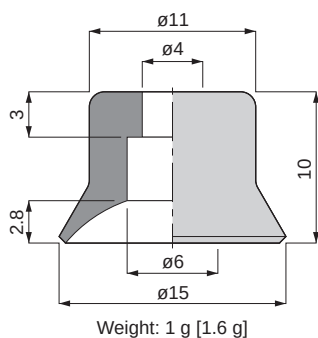


Weight: 1288 g [1845 g]

Note: Values in [] for fluoro rubber only.

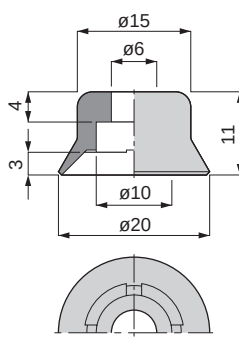
Pad only Dimensions (deep)

●VSPG-15A*



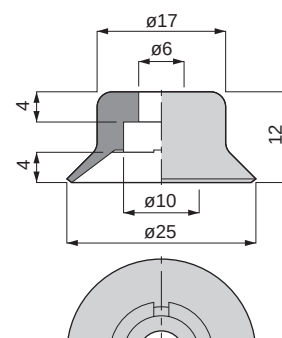
Weight: 1 g [1.6 g]

●VSPG-20A*



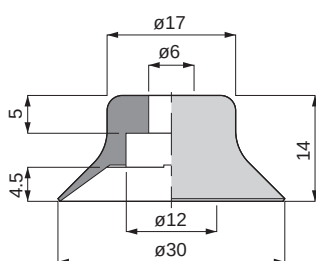
Weight: 1.7 g [2.7 g]

●VSPG-25A*



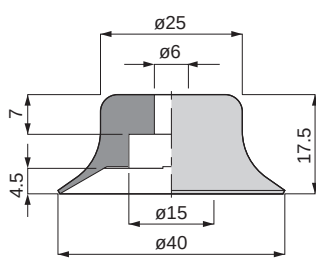
Weight: 2.5 g [3.9 g]

●VSPG-30A*



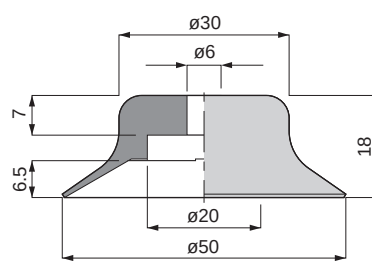
Weight: 3.1 g [5.0 g]

●VSPG-40A*



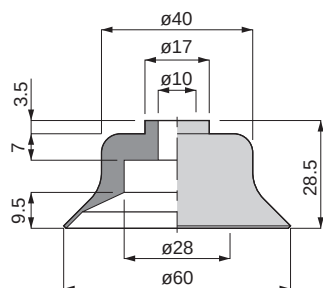
Weight: 9.1 g [14.6 g]

●VSPG-50A*



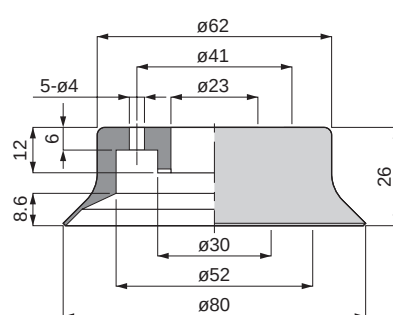
Weight: 14 g [22 g]

●VSPG-60A*



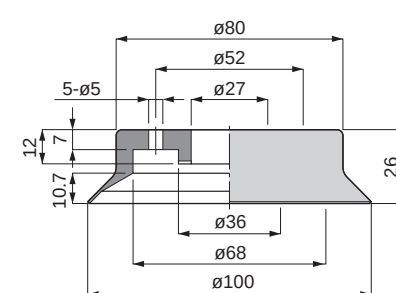
Weight: 24 g [38 g]

●VSPG-80A*



Weight: 46 g [74 g]

●VSPG-100A*



Weight: 72 g [116 g]

Note: Values in [] for fluoro rubber only.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

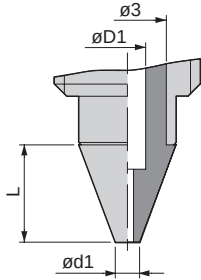
Flat

Suction mark
prevention

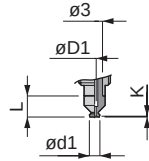
Suction mark prevention

Detailed view of pad and holder connection (standard)

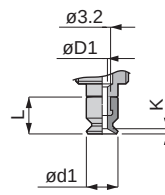
●VSPG-1R*



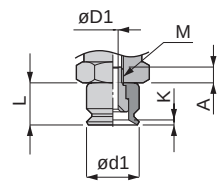
●VSPG-2 to 4R*



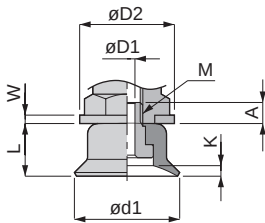
●VSPG-6R*8R*



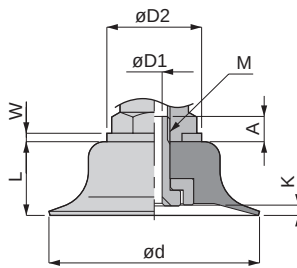
●VSPG-10, 15R*A



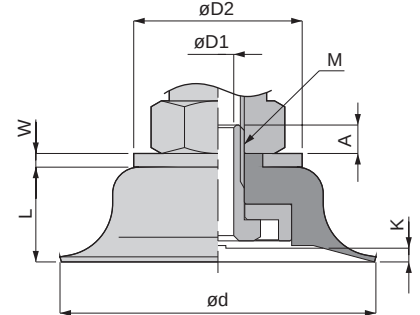
●VSPG-20 to 30R*A



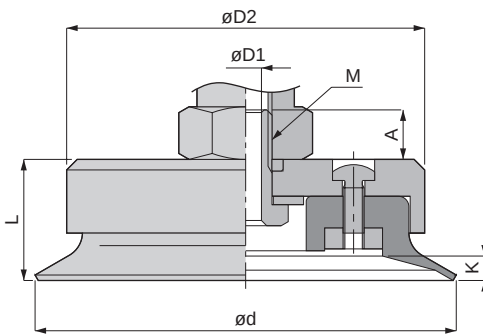
●VSPG-40, 50R*



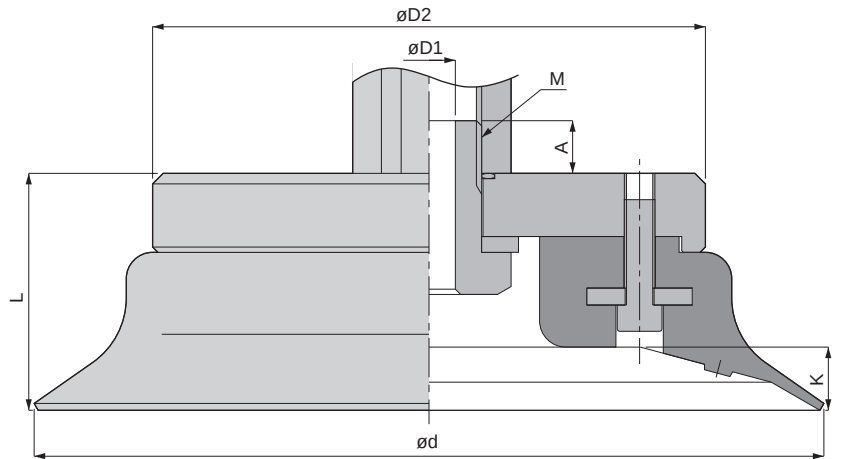
●VSPG-60R*A



●VSPG-80, 100R*A



●VSPG-150, 200R*A



Unit: mm

Model No.	Pad diameter ød	L	Lip internal height K	Fixing screw M	A	øD1	øD2	W
VSPG-1R*	1	4	-	-	-	0.5	-	-
VSPG-2R*	2	4	0.2	-	-	0.6	-	-
VSPG-3R*	3	4	0.2	-	-	0.8	-	-
VSPG-4R*	4	4	0.6	-	-	1.2	-	-
VSPG-6R*	6	7	1	-	-	2	-	-
VSPG-8R*	8	5.5	1.1	-	-	2	-	-
VSPG-10R*A	10	8	1	M4x0.7	3	2	-	-
VSPG-15R*A	15	9	2.4	M4x0.7	3	2	-	-
VSPG-20R*A	20	10	1.8	M6x1	4	4.5	15.5	1.6
VSPG-25R*A	25	11	2.6	M6x1	3.5	4.5	15.5	1.6
VSPG-30R*A	30	11	2	M6x1	5	4.5	15.5	1.6
VSPG-40R*A	40	14	1.9	M6x1	5	4.1	22	1.6
VSPG-50R*A	50	15	1.9	M6x1	5	4.1	22	1.6
VSPG-60R*A	60	18	2.6	M10x1.5	5.4	6	32	2.6
VSPG-80R*A	80	23	4.6	M10x1.5	9.4	6	68	-
VSPG-100R*A	100	25	5.4	M10x1.5	8.4	6	85	-
VSPG-150R*A	150	45	12	M20x2	11	10	105	-
VSPG-200R*A	200	50	15	M20x2	11	10	105	-

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

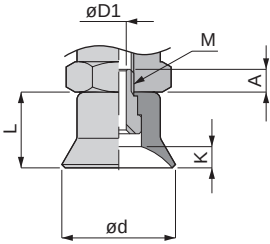
Flat

Suction mark
prevention

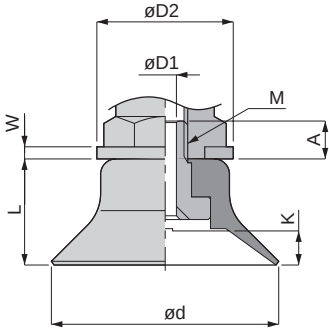
VSPG-**R**, **A**, **RM** Series

Detailed view of pad and holder fixing part (deep)

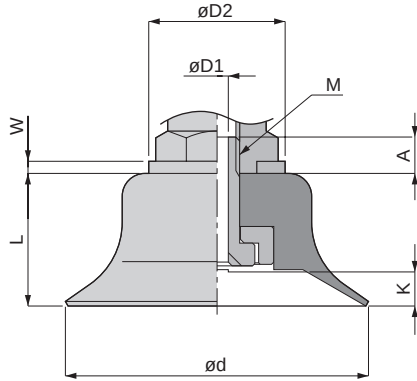
●VSPG-15A*A



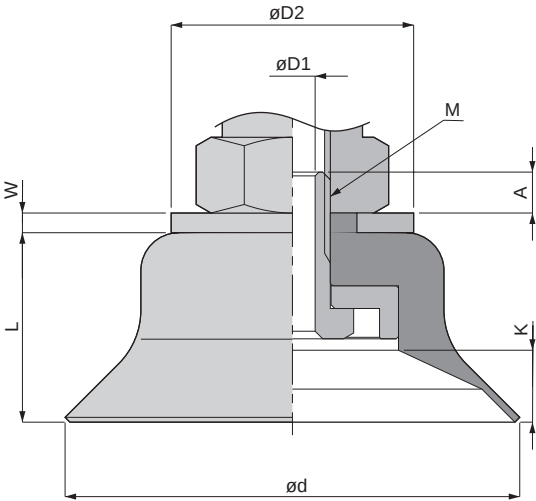
●VSPG-20 to 30A*A



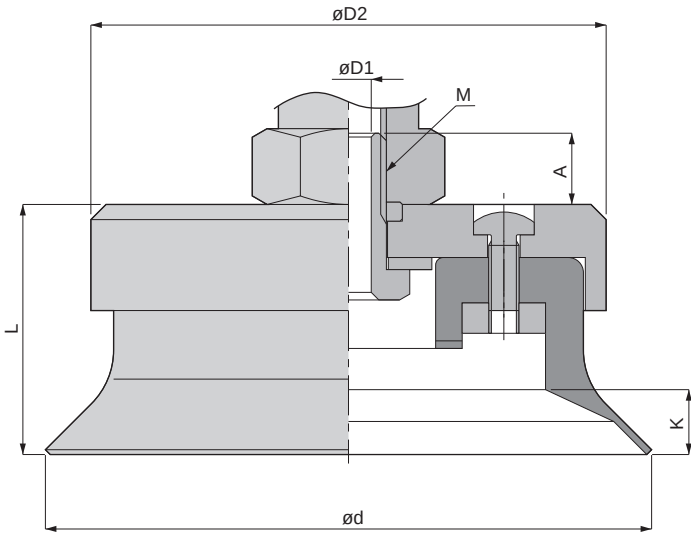
●VSPG-40, 50A*A



●VSPG-60A*A



●VSPG-80, 100A*A

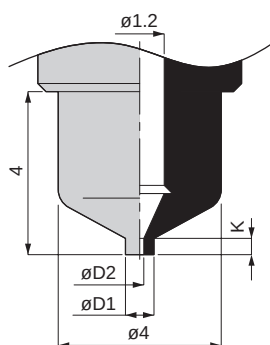


Unit: mm

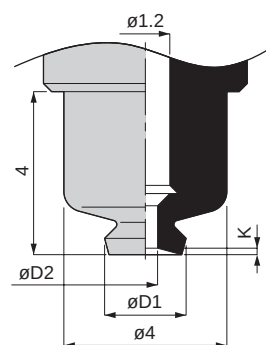
Model No.	Pad diameter ød	L	Lip internal height K	Fixing screw M	A	øD1	øD2	W
VSPG-15A*A	15	10	2.8	M4x0.7	3	2	-	-
VSPG-20A*A	20	11	3	M6x1	4	4.5	15.5	1.6
VSPG-25A*A	25	12	4	M6x1	4	4.5	15.5	1.6
VSPG-30A*A	30	14	4.5	M6x1	5	4.5	15.5	1.6
VSPG-40A*A	40	17.5	4.5	M6x1	5	4.1	22	1.6
VSPG-50A*A	50	18	6.5	M6x1	5	4.1	22	1.6
VSPG-60A*A	60	25	9.5	M10x1.5	5.4	6	32	2.6
VSPG-80A*A	80	33	8.6	M10x1.5	9.4	6	68	-
VSPG-100A*A	100	34	10.7	M10x1.5	8.4	6	85	-

Detailed view of pad and holder fixing part (compact)

● VSPG-0.7RM*, VSPG-1RM*,
VSPG-1.5RM*



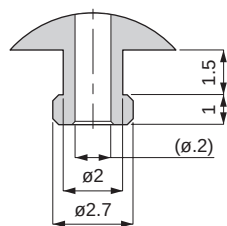
● VSPG-2RM*, VSPG-3RM*,
VSPG-4RM*



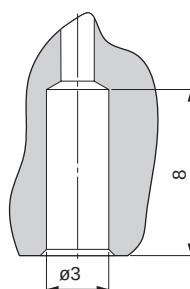
Model No.	Pad O.D $\phi D1$	Pad bore size $\phi D2$	K
VSPG-0.7RM*	0.7	0.2	0.6
VSPG-1RM*	1	0.4	0.4
VSPG-1.5RM*	1.5	0.7	0.4
VSPG-2RM*	2	0.6	0.2
VSPG-3RM*	3	0.8	0.4
VSPG-4RM*	4	1.2	0.6

Pad fitting part dimensions (standard, compact)

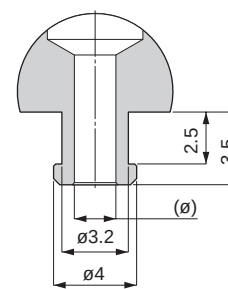
● VSPG-0.7 to 4RM*



● VSPG-1 to 4R*



● VSPG-6 to 8R*



Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

Safety precautions

 CAUTION

- Standard standard standard standard suction pads VSP-□1R□to□4□R cannot be mounted on the compact suction pad holder. These pads support use with the standard suction pad holder.
- For mounting of compact suction pads, pad diameter ø0.7, ø1 and ø1.5 mm, do not apply a load of 0.4 (N) or more to the lip during suction. If an excessive load is applied to the lip, the pad bore may collapse due to rubber elasticity, and may prevent it from suctioning workpieces and cause the suction confirmation signal to malfunction.
- Pad O.D.: Pad frames of ø80 mm or greater have no conductivity. When using suction pads of static dissipative rubber, conductive rubber (low resistance) or conductive NBR (low resistance), take measures to let electricity pass directly from the pad rubber.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-Stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

Suction pad	General/Deep/ Compact		Sponge	Bel lows	Multi-Stage bellows	Oval	Soft	Soft bellows	Anti-slip	Thin object	Flat	Suction mark prevention
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Suction pad, sponge

VSP-*S* Series

Sponge-like suction pad with numerous holes inside

RoHS

The sponge part of single foam absorbs the unevenness of the workpiece, making it ideal for transporting workpieces such as building outer wall materials, small stones and shells

A wide range of holder variations

Shape 16 types

- Standard 5 types
- Compact Class 4
- Low dust generation 2 types
- Lightweight 3 types
- Low back: 2 types

Piping 7 types

- Push-in fitting (ø1.8 to ø8) Four types
- Barbed fitting (ø4, ø6) Two types
- Screw-in (G1/8) 1 type

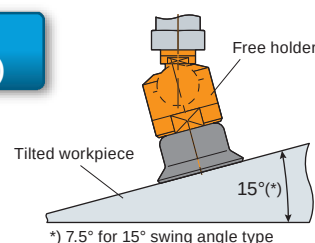
Stroke 10 types

4mm to 50mm
(Depends on pad diameter and holder)

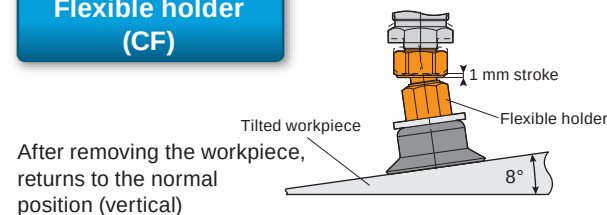
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle

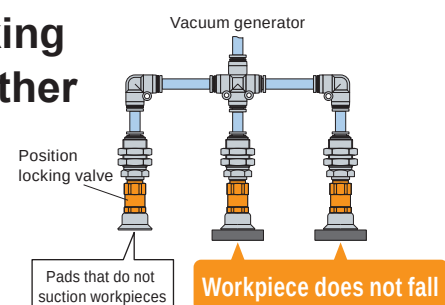
**Free holder
(F1:30°, F2:15°)**



**Flexible holder
(CF)**



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



VSP-*S* Series

Pad shape



Chloroprene

Soft cushioning enables flexible track for uneven workpieces.



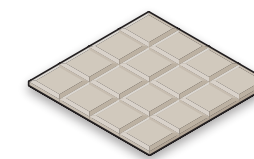
Silicone (s)

High sponge density makes it relatively strong and suppresses distortion against compression



Recommended workpiece

Building outer wall materials, small stones, shells, etc.



Pad diameter

9 types

10

15

20

25

30

35

50

70

100

Pad material

2 types

silicone

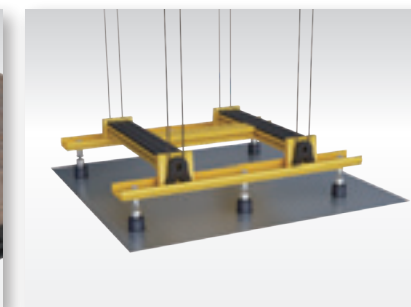
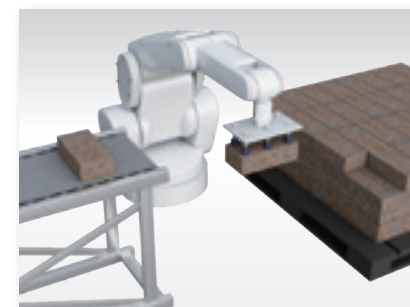
Chloroprene

* Silicone (S) is compatible with the Food Sanitation Act. (holder is not supported/suction pad is compatible only with workpiece contact part)

Solution examples

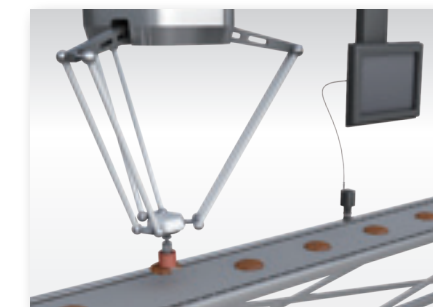
Workpieces with uneven surface

It can flexibly track and adsorb to building materials such as bricks and stone, and steel plates with uneven surfaces.



Frozen food, etc.

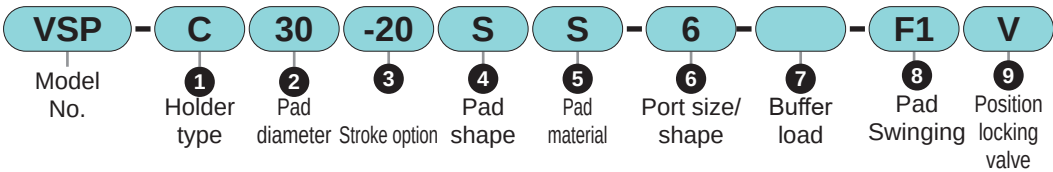
By selecting silicone rubber, it can also be used for food handling.



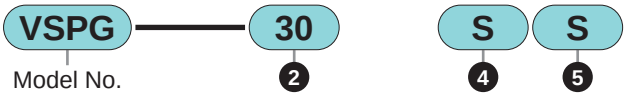
How to order

●Sponge

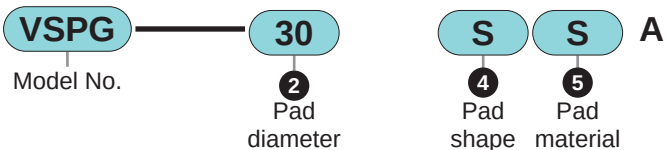
Suction pad



Pad rubber only



Pad rubber + set with fixing screw



1 Holder type

With/Without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact	Upward direction	MA	
	Standard	Lateral direction	B	
	Compact	Lateral direction	MB	
Low height	Both lateral directions		HE	
			HEW	
Buffer type	Standard	Upward direction	C	
	Compact	Upward direction	MC	
	Low dust generation	Upward direction	LFC	
	Lightweight	Upward direction	HC	
	Standard	Lateral direction	D	
	Compact	Lateral direction	MD	
	Low dust generation	Lateral direction	LFD	
	Light-weight	Both lateral directions	HD	
			HDW	
	Standard	Direct mounting	F	

4 Pad shape

Code	Description	
S	Sponge	

2 Pad diameter

Code	Description
10	ø10
15	ø15
20	ø20
25	ø25
30	ø30
35	ø35
50	ø50
70	ø70
100	ø100

3 Stroke option

Holder type							
Description	C	D	HC	LFC	LFD		Code
Specified stroke or without buffer	●	●					Blank
Stroke 5 mm				●	●		-5
Stroke 10 mm	●	●	●	●	●		-10
Stroke 15 mm	●	●	●	●	●		-15
Stroke 20 mm	●	●	●	●	●		-20
Stroke 25 mm			●				-25
Stroke 30 mm	●	●	●				-30
Stroke 40 mm	●	●	●				-40
Stroke 50 mm	●	●	●				-50

*1: Blank for 3 models other than 1 C, D, HC, LFC, LFD.

*2: 3 For a designated stroke with blank, check the stroke dimensions with a Dimensions.

5 Pad material

Code	Description	
Blank	Chloroprene rubber	
S	Silicone rubber	

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

6 Port size/shape

Description	Holder type															Code	
	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW		
(1: for F)																Blank	
ø1.8 push-in fitting						●	●	●			●	●	●	●	●	2	
ø4 push-in fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4	
ø6 push-in fitting	●	●	●	●		●		●	●	●	●	●	●	●	●	6	
ø8 push-in fitting	●	●	●	●												8	
ø4 Push-in fitting, without spring cover			●	●												4C	
ø6 Push-in fitting, without spring cover			●	●												6C	
ø4 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4T	
ø6 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6T	
ø4 barbed fitting, without spring cover			●	●												4TC	
ø6 Barbed fitting, without spring cover			●	●												6TC	
G1/8	●	●	●	●												6A	

*1: If 3-20 to-50 is available for 1C and D, 64C, 6C, 4TC, 6TC can be selected. *2: The available port size and shape differ depending on the 2 pad diameter. Check with the combination table below.

7 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1

*1: 7 is blank for models other than 1LFC.

8 Swiveling pad

Code	Description	
Blank	None	
F1	Free holder Swinging With angle 30°	
F2	Free holder Swinging With angle 15°	
CF	Flexible Holder With angle 8°	

*1: 2For 10 to 50, 3CF can be selected.

9 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

Holder shape - pad diameter - pad shape - port size/shape combinations

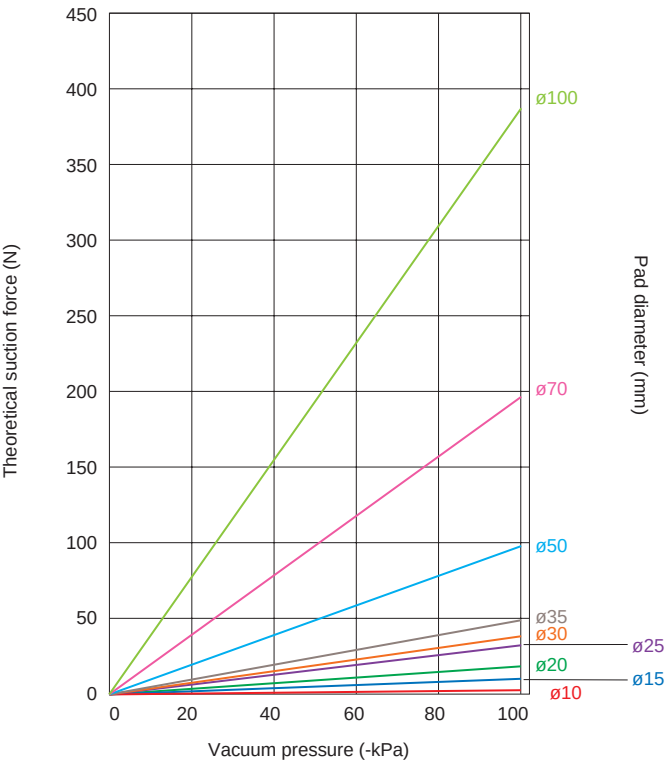
Holder Shape	Pad diameter	Push-in fitting					Barbed fitting				Thread
		ø4		ø6		ø8	ø4		ø6		G1/8
		4	4C	6	6C	8	4T	4TC	6T	6TC	6A
A	ø10 to ø50	●		●			●		●		
	ø70, ø100	●		●		●					●
B	ø10 to ø50	●		●			●		●		
	ø70, ø100	●		●		●					●
C	ø10 to ø50	●	●	●	●		●	●	●	●	
	ø70, ø100	●		●		●					●
D	ø10 to ø50	●	●	●	●		●	●	●	●	
	ø70, ø100	●		●		●					●

Holder Shape	Pad diameter	Thread
		M14
		Blank
F	ø10 to ø50	●

Holder type	Pad diameter	Push-in fitting			Barbed fitting	
		ø1.8	ø4	ø6	ø4	ø6
MA	ø10 to ø50		●		●	●
MB	ø10 to ø50	●	●	●	●	●
MC	ø10 to ø50	●	●		●	●
MD	ø10 to ø50	●	●	●	●	●
LFC	ø10 to ø50		●	●	●	●
LFD	ø10 to ø50		●	●	●	●
HC	ø10 to ø50	●	●	●	●	●
HD	ø10 to ø50	●	●	●	●	●
HDW	ø10 to ø50	●	●	●	●	●
HE	ø10 to ø50	●	●	●	●	●
HEW	ø10 to ø50	●	●	●	●	●

Theoretical suction force

● Pad diameter: ø10 mm to ø100 mm



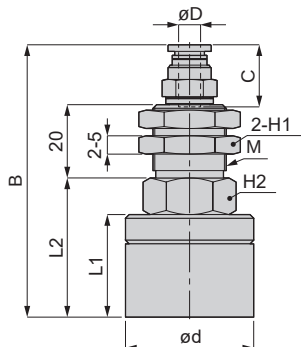
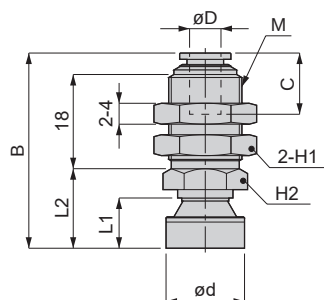
Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use. For the sponge type suction force, it may not be possible to secure the calculated suction force (theoretical suction force x safety factor) due to the effect of pad characteristics such as degree of vacuum/pad material/suctioned object. Before selection, use the suction force obtained by "Selection method of suction pad" (page 288) as a guide, and make sure that there is no problem with the suction capacity on the actual machine.

Suction pad	General/Deep/ Compact	Sponge	Bellows	Multi-stage bellows	Oval	Soft	Soft bellows	Anti-slip	Thin object	Flat	Suction mark prevention
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Dimensions (fixed, vacuum outlet, top, VSP-A, push-in fitting)

●VSP-A10 to 50S*-4/6

●VSP-A70, 100S*-4/6/8



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10S*-4	10	4	M 12 x 1	46.4	9.5	15.5	11.2	14	12	26
VSP-A10S*-6		6	M 14 x 1	37.4		15.1	11.9			32
VSP-A15S*-4	15	4	M 12 x 1	46.4	9.5	15.5	11.2	14	12	26
VSP-A15S*-6		6	M 14 x 1	37.4		15.1	11.9			32
VSP-A20S*-4	20	4	M 12 x 1	52.4	15.5	21.5	11.2	17	12	28
VSP-A20S*-6		6	M 14 x 1	43.4		21.1	11.9			34
VSP-A25S*-4	25	4	M 12 x 1	52.4	15.5	21.5	11.2	17	12	29
VSP-A25S*-6		6	M 14 x 1	43.4		21.1	11.9			35
VSP-A30S*-4	30	4	M 12 x 1	52.4	15.5	21.5	11.2	17	12	29
VSP-A30S*-6		6	M 14 x 1	43.4		21.1	11.9			35
VSP-A35S*-4	35	4	M 12 x 1	64.9	28	34	11.2	17	12	65
VSP-A35S*-6		6	M 14 x 1	55.9		33.6	11.9			71
VSP-A50S*-4	50	4	M 12 x 1	64.9	28	34	11.2	17	12	108
VSP-A50S*-6		6	M 14 x 1	55.9		33.6	11.9			114
VSP-A70S*-4	70	4	M 20 x 1	70.6	30	40	11.2	24	22	252
VSP-A70S*-6		6		72.8			11.9			253
VSP-A70S*-8		8		81.2			18.2			258
VSP-A100S*-4	100	4	M20×1	70.6	30	40	11.2	24	22	383
VSP-A100S*-6		6		72.8			11.9			384
VSP-A100S*-8		8		81.2			18.2			389

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

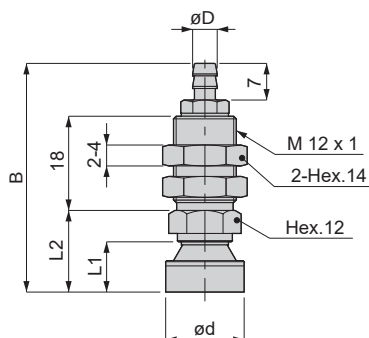
Thin object

Flat

Suction mark
prevention

Dimensions (fixed, vacuum outlet, top, VSP-A, barbed fitting)

●VSP-A10 to 50S*-4T/6T

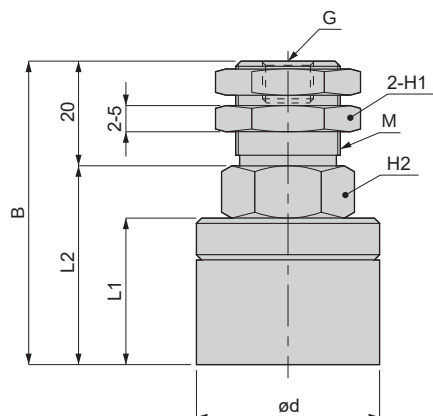


Unit: mm

Model No.	Pad diameter ϕd	Bore size ϕD	B	L1	L2	Weight (g)
VSP-A10S*-4T	10	2.5	43.5	9.5	15.5	25
VSP-A10S*-6T		4				
VSP-A15S*-4T	15	2.5	43.5	9.5	15.5	26
VSP-A15S*-6T		4				
VSP-A20S*-4T	20	2.5	49.5	15.5	21.5	27
VSP-A20S*-6T		4				
VSP-A25S*-4T	25	2.5	49.5	15.5	21.5	29
VSP-A25S*-6T		4				
VSP-A30S*-4T	30	2.5	49.5	15.5	21.5	29
VSP-A30S*-6T		4				
VSP-A35S*-4T	35	2.5	62	28	34	65
VSP-A35S*-6T		4				
VSP-A50S*-4T	50	2.5	62	28	34	108
VSP-A50S*-6T		4				

Dimensions (fixed, vacuum outlet top VSP-A, female thread)

●VSP-A70 , 100S*-6A



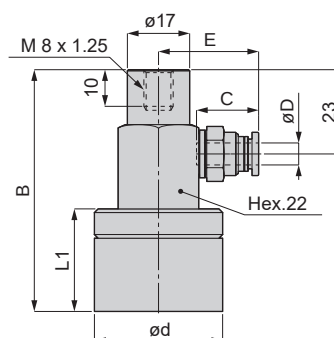
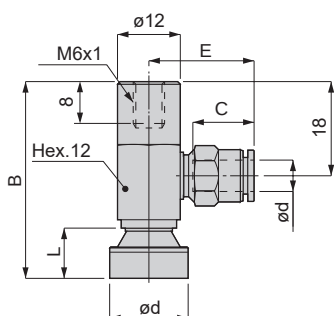
Unit: mm

Model No.	Pad diameter ϕd	Vacuum outlet size G	Mounting screw M	B	L1	L2	Hexagon H1	Hexagon H2	Weight (g)
VSP-A70S*-6A	70	G1/8	M 20 x 1	60	30	40	24	22	244
VSP-A100S*-6A	100	G1/8	M 20 x 1	60	30	40	24	22	375

Dimensions (fixed, vacuum outlet, side, VSP-B, push-in fitting)

●VSP-B10 to 50S*-4/6

●VSP-B70, 100S*-4/6/8

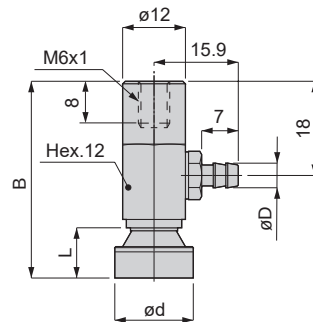


Unit: mm

One mm							
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B10S*-4	10	4	37.5	9.5	11.2	18.8	28
VSP-B10S*-6		6			11.9	20.1	29
VSP-B15S*-4	15	4	37.5	9.5	11.2	18.8	29
VSP-B15S*-6		6			11.9	20.1	30
VSP-B20S*-4	20	4	43.5	15.5	11.2	18.8	30
VSP-B20S*-6		6			11.9	20.1	31
VSP-B25S*-4	25	4	43.5	15.5	11.2	18.8	32
VSP-B25S*-6		6			11.9	20.1	33
VSP-B30S*-4	30	4	43.5	15.5	11.2	18.8	32
VSP-B30S*-6		6			11.9	20.1	33
VSP-B35S*-4	35	4	56	28	11.2	18.8	68
VSP-B35S*-6		6			11.9	20.1	69
VSP-B50S*-4	50	4	56	28	11.2	18.8	111
VSP-B50S*-6		6			11.9	20.1	112
VSP-B70S*-4	70	4	68	30	11.2	21.5	259
VSP-B70S*-6		6			11.9	23.7	260
VSP-B70S*-8		8			18.2	32.1	265
VSP-B100S*-4	100	4	68	30	11.2	21.5	389
VSP-B100S*-6		6			11.9	23.7	390
VSP-B100S*-8		8			18.2	32.1	395

Dimensions (fixed, vacuum outlet, side, VSP-B, barbed fitting)

●VSP-B10 to 50S*-4T/6T

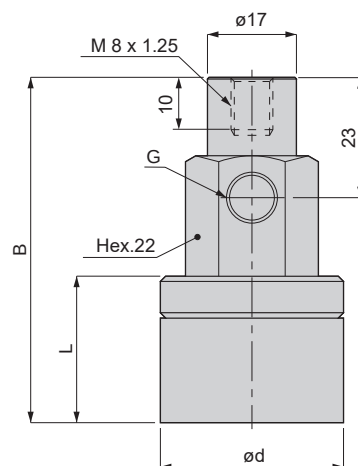


Unit: mm

Model No.	Pad diameter ϕd	Bore size ϕD	B	L	Weight (g)
VSP-B10S*-4	10	2.5	37.5	9.5	25
VSP-B10S*-6		4			
VSP-B15S*-4	15	2.5	37.5	9.5	26
VSP-B15S*-6		4			
VSP-B20S*-4	20	2.5	43.5	15.5	27
VSP-B20S*-6		4			
VSP-B25S*-4	25	2.5	43.5	15.5	29
VSP-B25S*-6		4			
VSP-B30S*-4	30	2.5	43.5	15.5	29
VSP-B30S*-6		4			
VSP-B35S*-4	35	2.5	56	28	65
VSP-B35S*-6		4			
VSP-B50S*-4	50	2.5	56	28	108
VSP-B50S*-6		4			

Dimensions (fixed, vacuum outlet, side, VSP-B, female thread)

●VSP-B70, 100S*-6A

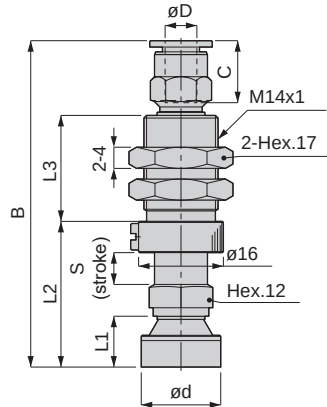


Unit: mm

Model No.	Pad diameter ϕd	Vacuum outlet size G	B	L	Weight (g)
VSP-B70S*-6A	70	G1/8	68	30	251
VSP-B100S*-6A	100	G1/8	68	30	381

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C10 to 30S*-4/6
- VSP-C10 to 30S-□*-4/6



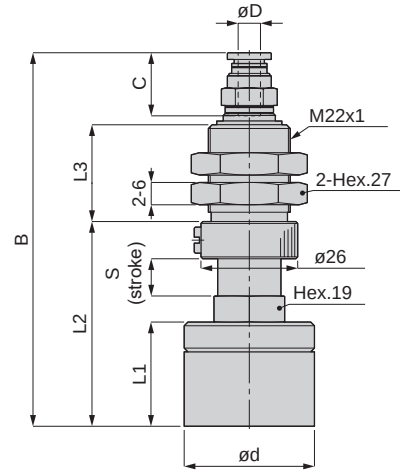
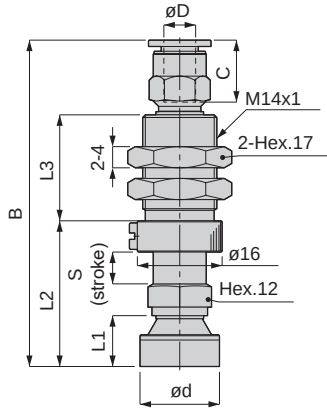
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C10S*-4	10	4	60.5	9.5	27.5	20	11.2	6	7.0 to 12.6	34
	VSP-C10S*-6		6	61.8				11.9			35
Sponge	VSP-C10-10S*-4		4	66.5		33.5	20	11.2	10	3.3 to 10.0	37
	VSP-C10-10S*-6		6	67.8				11.9			38
Bellows	VSP-C10-15S*-4		4	76.5		38.5	25	11.2	15	3.3 to 10.4	41
	VSP-C10-15S*-6		6	77.8				11.9			42
Multi-stage bellows	VSP-C10-20S*-4		4	92.5		45.5	34	11.2	20	2.0 to 8.7	48
	VSP-C10-20S*-6		6	93.8				11.9			49
Oval	VSP-C15S*-4	15	4	60.5	9.5	27.5	20	11.2	6	7.0 to 12.6	35
	VSP-C15S*-6		6	61.8				11.9			36
Soft	VSP-C15-10S*-4		4	66.5		33.5	20	11.2	10	3.3 to 10.0	37
	VSP-C15-10S*-6		6	67.8				11.9			38
Soft bellows	VSP-C15-15S*-4		4	76.5		38.5	25	11.2	15	3.3 to 10.4	42
	VSP-C15-15S*-6		6	77.8				11.9			43
Anti-slip	VSP-C15-20S*-4		4	92.5		45.5	34	11.2	20	2.0 to 8.7	49
	VSP-C15-20S*-6		6	93.8				11.9			50
Thin object	VSP-C20S*-4	20	4	66.5	15.5	33.5	20	11.2	6	7.0 to 12.6	36
	VSP-C20S*-6		6	67.8				11.9			37
Flat	VSP-C20-10S*-4		4	72.5		39.5	20	11.2	10	3.3 to 10.0	39
	VSP-C20-10S*-6		6	73.8				11.9			40
Suction mark prevention	VSP-C20-15S*-4		4	82.5		44.5	25	11.2	15	3.3 to 10.4	43
	VSP-C20-15S*-6		6	83.8				11.9			44
	VSP-C20-20S*-4		4	98.5		51.5	34	11.2	20	2.0 to 8.7	50
	VSP-C20-20S*-6		6	99.8				11.9			51
	VSP-C25S*-4	25	4	66.5	15.5	33.5	20	11.2	6	7.0 to 12.6	38
	VSP-C25S*-6		6	67.8				11.9			39
	VSP-C25-10S*-4		4	72.5		39.5	20	11.2	10	3.3 to 10.0	40
	VSP-C25-10S*-6		6	73.8				11.9			41
	VSP-C25-15S*-4		4	82.5		44.5	25	11.2	15	3.3 to 10.4	45
	VSP-C25-15S*-6		6	83.8				11.9			46
	VSP-C25-20S*-4		4	98.5		51.5	34	11.2	20	2.0 to 8.7	52
	VSP-C25-20S*-6		6	99.8				11.9			53
	VSP-C30S*-4	30	4	66.5	15.5	33.5	20	11.2	6	7.0 to 12.6	38
	VSP-C30S*-6		6	67.8				11.9			39
	VSP-C30-10S*-4		4	72.5		39.5	20	11.2	10	3.3 to 10.0	40
	VSP-C30-10S*-6		6	73.8				11.9			41
	VSP-C30-15S*-4		4	82.5		44.5	25	11.2	15	3.3 to 10.4	45
	VSP-C30-15S*-6		6	83.8				11.9			46
	VSP-C30-20S*-4		4	98.5		51.5	34	11.2	20	2.0 to 8.7	52
	VSP-C30-20S*-6		6	99.8				11.9			53

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C35, 50S*-4/6
- VSP-C35, 50-□S*-4/6

- VSP-C70, 100S*-4/6/8



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C35S*-4	35	4	79	28	46	20	11.2	6	7.0 to 12.6	73
VSP-C35S*-6		6	80.3				11.9			74
VSP-C35-10S*-4		4	85		52		11.2	10	3.3 to 10.0	76
VSP-C35-10S*-6		6	86.3				11.9			77
VSP-C35-15S*-4		4	95		57	25	11.2	15	3.3 to 10.4	81
VSP-C35-15S*-6		6	96.3				11.9			82
VSP-C35-20S*-4		4	111		64	34	11.2	20	2.0 to 8.7	87
VSP-C35-20S*-6		6	112.3				11.9			88
VSP-C50S*-4	50	4	79	28	46	20	11.2	6	7.0 to 12.6	73
VSP-C50S*-6		6	80.3				11.9			74
VSP-C50-10S*-4		4	85		52		11.2	10	3.3 to 10.0	76
VSP-C50-10S*-6		6	86.3				11.9			77
VSP-C50-15S*-4		4	95		57	25	11.2	15	3.3 to 10.4	81
VSP-C50-15S*-6		6	96.3				11.9			82
VSP-C50-20S*-4		4	111		64	34	11.2	20	2.0 to 8.7	87
VSP-C50-20S*-6		6	112.3				11.9			88
VSP-C70S*-4	70	4	96.6	30	57	26	11.2	10	10.1 to 15.8	280
VSP-C70S*-6		6	98.8				11.9			281
VSP-C70S*-8		8	107.2				18.2			286
VSP-C100S*-4	100	4	96.6	30	57	26	11.2	10	10.1 to 15.8	411
VSP-C100S*-6		6	98.8				11.9			412
VSP-C100S*-8		8	107.2				18.2			417

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

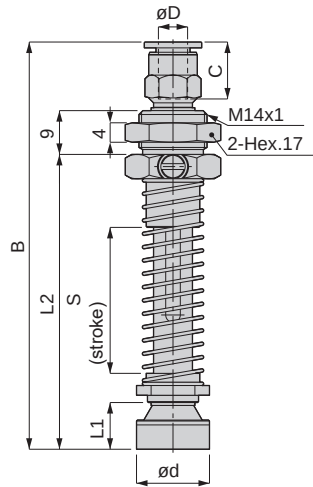
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C10 to 30-□S*-4C/6C

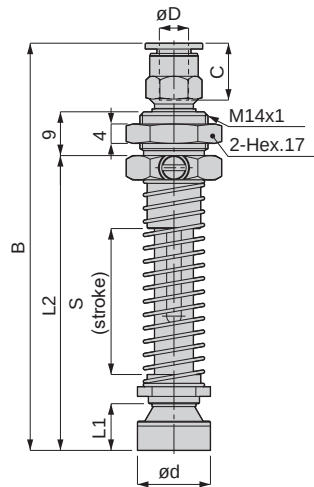


Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C10-20S*-4C	10	4	69.5	9.5	47.5	11.2	20	1.5 to 4.9	44
VSP-C10-20S*-6C		6	70.8			11.9			45
VSP-C10-30S*-4C		4	82.5		60.5	11.2	30	1.1 to 4.8	49
VSP-C10-30S*-6C		6	83.8			11.9			50
VSP-C10-40S*-4C		4	95.5		73.5	11.2	40	1.0 to 4.5	54
VSP-C10-40S*-6C		6	96.8			11.9			55
VSP-C10-50S*-4C		4	108.5		86.5	11.2	50	0.9 to 4.5	60
VSP-C10-50S*-6C		6	109.8			11.9			61
VSP-C15-20S*-4C	15	4	69.5	9.5	47.5	11.2	20	1.5 to 4.9	44
VSP-C15-20S*-6C		6	70.8			11.9			45
VSP-C15-30S*-4C		4	82.5		60.5	11.2	30	1.1 to 4.8	50
VSP-C15-30S*-6C		6	83.8			11.9			51
VSP-C15-40S*-4C		4	95.5		73.5	11.2	40	1.0 to 4.5	55
VSP-C15-40S*-6C		6	96.8			11.9			56
VSP-C15-50S*-4C		4	108.5		86.5	11.2	50	0.9 to 4.5	60
VSP-C15-50S*-6C		6	109.8			11.9			61
VSP-C20-20S*-4C	20	4	75.5	15.5	53.5	11.2	20	1.5 to 4.9	46
VSP-C20-20S*-6C		6	76.8			11.9			47
VSP-C20-30S*-4C		4	88.5		66.5	11.2	30	1.1 to 4.8	51
VSP-C20-30S*-6C		6	89.8			11.9			52
VSP-C20-40S*-4C		4	101.5		79.5	11.2	40	1.0 to 4.5	56
VSP-C20-40S*-6C		6	102.8			11.9			57
VSP-C20-50S*-4C		4	114.5		92.5	11.2	50	0.9 to 4.5	62
VSP-C20-50S*-6C		6	115.8			11.9			63
VSP-C25-20S*-4C	25	4	75.5	15.5	53.5	11.2	20	1.5 to 4.9	47
VSP-C25-20S*-6C		6	76.8			11.9			48
VSP-C25-30S*-4C		4	88.5		66.5	11.2	30	1.1 to 4.8	53
VSP-C25-30S*-6C		6	89.8			11.9			54
VSP-C25-40S*-4C		4	101.5		79.5	11.2	40	1.0 to 4.5	58
VSP-C25-40S*-6C		6	102.8			11.9			59
VSP-C25-50S*-4C		4	114.5		92.5	11.2	50	0.9 to 4.5	63
VSP-C25-50S*-6C		6	115.8			11.9			64
VSP-C30-20S*-4C	30	4	75.5	15.5	53.5	11.2	20	1.5 to 4.9	47
VSP-C30-20S*-6C		6	76.8			11.9			48
VSP-C30-30S*-4C		4	88.5		66.5	11.2	30	1.1 to 4.8	53
VSP-C30-30S*-6C		6	89.8			11.9			54
VSP-C30-40S*-4C		4	101.5		79.5	11.2	40	1.0 to 4.5	58
VSP-C30-40S*-6C		6	102.8			11.9			59
VSP-C30-50S*-4C		4	114.5		92.5	11.2	50	0.9 to 4.5	63
VSP-C30-50S*-6C		6	115.8			11.9			64

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C35, 50-□S*-4C/6C



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C35-20S*-4C	35	4	89	28	66	11.2	20	1.5 to 4.9	83
VSP-C35-20S*-6C		6	89.3			11.9			84
VSP-C35-30S*-4C		4	101		79	11.2	30	1.1 to 4.8	88
VSP-C35-30S*-6C		6	102.3			11.9			89
VSP-C35-40S*-4C		4	114		92	11.2	40	1.0 to 4.5	94
VSP-C35-40S*-6C		6	115.3			11.9			95
VSP-C35-50S*-4C		4	127		105	11.2	50	0.9 to 4.5	99
VSP-C35-50S*-6C		6	128.3			11.9			100
VSP-C50-20S*-4C	50	4	88	28	66	11.2	20	1.5 to 4.9	126
VSP-C50-20S*-6C		6	89.3			11.9			127
VSP-C50-30S*-4C		4	101		79	11.2	30	1.1 to 4.8	131
VSP-C50-30S*-6C		6	102.3			11.9			132
VSP-C50-40S*-4C		4	114		92	11.2	40	1.0 to 4.5	137
VSP-C50-40S*-6C		6	115.3			11.9			138
VSP-C50-50S*-4C		4	127		105	11.2	50	0.9 to 4.5	142
VSP-C50-50S*-6C		6	128.3			11.9			143

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

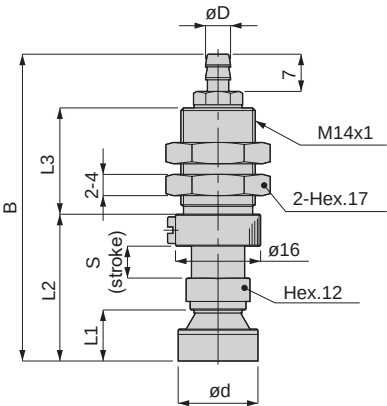
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C10 to 30S*-4T/6T
- VSP-C10 to 30S-□*-4T/6T

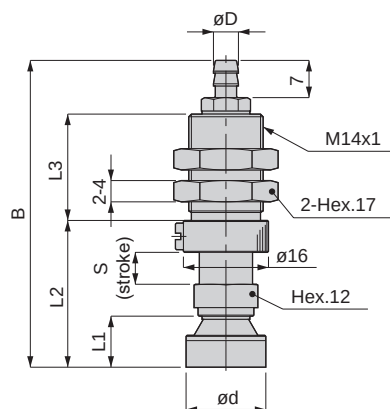


Unit: mm

General/Deep/ Compact	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
Sponge	VSP-C10S*-4T	10	2.5	57.6	9.5	27.5	20	6	7.0 to 12.6	35
	VSP-C10S*-6T		4							
	VSP-C10-10S*-4T		2.5	63.6		33.5	10	3.3 to 10.0	38	
	VSP-C10-10S*-6T		4							
Bellows	VSP-C10-15S*-4T		2.5	73.6		38.5	25	15	3.3 to 10.4	42
	VSP-C10-15S*-6T		4							
	VSP-C10-20S*-4T		2.5	89.6		45.5	34	20	2.0 to 8.7	49
	VSP-C10-20S*-6T		4							
Multi-stage bellows	VSP-C15S*-4T	15	4	57.6	9.5	27.5	20	6	7.0 to 12.6	36
	VSP-C15S*-6T		6							
	VSP-C15-10S*-4T		4	63.6		33.5	10	3.3 to 10.0	38	
	VSP-C15-10S*-6T		6							
Oval	VSP-C15-15S*-4T		4	73.6		38.5	25	15	3.3 to 10.4	43
	VSP-C15-15S*-6T		6							
	VSP-C15-20S*-4T		4	89.6		45.5	34	20	2.0 to 8.7	50
	VSP-C15-20S*-6T		6							
Soft	VSP-C20S*-4T	20	4	63.6	15.5	33.5	20	6	7.0 to 12.6	37
	VSP-C20S*-6T		6							
Soft bellows	VSP-C20-10S*-4T		4	69.6		39.5	10	3.3 to 10.0	40	
	VSP-C20-10S*-6T		6							
	VSP-C20-15S*-4T		4	79.6		44.5	15	3.3 to 10.4	44	
	VSP-C20-15S*-6T		6							
Anti-slip	VSP-C20-20S*-4T		4	95.6		51.5	34	20	2.0 to 8.7	51
	VSP-C20-20S*-6T		6							
Thin object	VSP-C25S*-4T	25	4	63.6	15.5	33.5	20	6	7.0 to 12.6	39
	VSP-C25S*-6T		6							
	VSP-C25-10S*-4T		4	69.6		39.5	10	3.3 to 10.0	41	
	VSP-C25-10S*-6T		6							
Flat	VSP-C25-15S*-4T		4	79.6		44.5	25	15	3.3 to 10.4	46
	VSP-C25-15S*-6T		6							
	VSP-C25-20S*-4T		4	95.6		51.5	34	20	2.0 to 8.7	53
	VSP-C25-20S*-6T		6							
Suction mark prevention	VSP-C30S*-4T	30	4	63.6	15.5	33.5	20	6	7.0 to 12.6	39
	VSP-C30S*-6T		6							
	VSP-C30-10S*-4T		4	69.6		39.5	10	3.3 to 10.0	41	
	VSP-C30-10S*-6T		6							
	VSP-C30-15S*-4T		4	79.6		44.5	25	15	3.3 to 10.4	46
	VSP-C30-15S*-6T		6							
	VSP-C30-20S*-4T		4	95.6		51.5	34	20	2.0 to 8.7	53
	VSP-C30-20S*-6T		6							

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C35, 50S*-4T/6T
- VSP-C35, 50-□S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C35S*-4T	35	2.5	76.1	28	46	20	6	7.0 to 12.6	74
VSP-C35S*-6T		4							
VSP-C35-10S*-4T		2.5	82.1		52	10	3.3 to 10.0	77	
VSP-C35-10S*-6T		4							
VSP-C35-15S*-4T		2.5	92.1		57	25	15	3.3 to 10.4	82
VSP-C35-15S*-6T		4							
VSP-C35-20S*-4T		2.5	108.1		64	34	20	2.0 to 8.7	88
VSP-C35-20S*-6T		4							
VSP-C50S*-4T	50	2.5	76.1	28	46	20	6	7.0 to 12.6	74
VSP-C50S*-6T		4							
VSP-C50-10S*-4T		2.5	82.1		52	10	3.3 to 10.0	77	
VSP-C50-10S*-6T		4							
VSP-C50-15S*-4T		2.5	92.1		57	25	15	3.3 to 10.4	82
VSP-C50-15S*-6T		4							
VSP-C50-20S*-4T		2.5	108.1		64	34	20	2.0 to 8.7	88
VSP-C50-20S*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

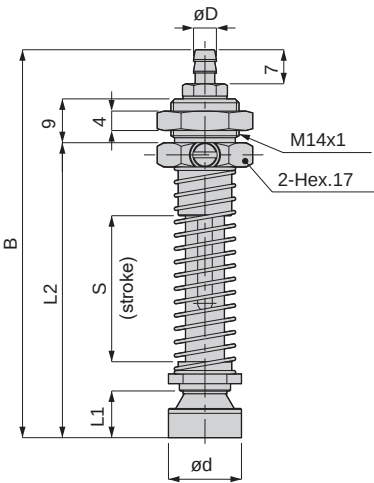
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

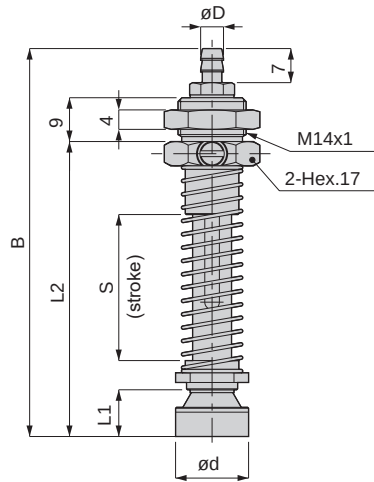
●VSP-C10 to 30-□S*-4TC/6TC



Unit: mm								
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C10-20S*-4TC	10	2.5	66.6	9.5	47.5	20	1.5 to 4.9	43
VSP-C10-20S*-6TC		4						
VSP-C10-30S*-4TC		2.5	79.6		60.5	30	1.1 to 4.8	48
VSP-C10-30S*-6TC		4						
VSP-C10-40S*-4TC		2.5	92.6		73.5	40	1.0 to 4.5	53
VSP-C10-40S*-6TC		4						
VSP-C10-50S*-4TC		2.5	105.6		86.5	50	0.9 to 4.5	59
VSP-C10-50S*-6TC		4						
VSP-C15-20S*-4TC	15	2.5	66.6	9.5	47.5	20	1.5 to 4.9	43
VSP-C15-20S*-6TC		4						
VSP-C15-30S*-4TC		2.5	79.6		60.5	30	1.1 to 4.8	49
VSP-C15-30S*-6TC		4						
VSP-C15-40S*-4TC		2.5	92.6		73.5	40	1.0 to 4.5	54
VSP-C15-40S*-6TC		4						
VSP-C15-50S*-4TC		2.5	105.6		86.5	50	0.9 to 4.5	59
VSP-C15-50S*-6TC		4						
VSP-C20-20S*-4TC	20	2.5	72.6	15.5	53.5	20	1.5 to 4.9	45
VSP-C20-20S*-6TC		4						
VSP-C20-30S*-4TC		2.5	85.6		66.5	30	1.1 to 4.8	50
VSP-C20-30S*-6TC		4						
VSP-C20-40S*-4TC		2.5	98.6		79.5	40	1.0 to 4.5	55
VSP-C20-40S*-6TC		4						
VSP-C20-50S*-4TC		2.5	111.6		92.5	50	0.9 to 4.5	61
VSP-C20-50S*-6TC		4						
VSP-C25-20S*-4TC	25	2.5	72.6	15.5	53.5	20	1.5 to 4.9	46
VSP-C25-20S*-6TC		4						
VSP-C25-30S*-4TC		2.5	85.6		66.5	30	1.1 to 4.8	52
VSP-C25-30S*-6TC		4						
VSP-C25-40S*-4TC		2.5	98.6		79.5	40	1.0 to 4.5	57
VSP-C25-40S*-6TC		4						
VSP-C25-50S*-4TC		2.5	111.6		92.5	50	0.9 to 4.5	62
VSP-C25-50S*-6TC		4						
VSP-C30-20S*-4TC	30	2.5	72.6	15.5	53.5	20	1.5 to 4.9	46
VSP-C30-20S*-6TC		4						
VSP-C30-30S*-4TC		2.5	85.6		66.5	30	1.1 to 4.8	52
VSP-C30-30S*-6TC		4						
VSP-C30-40S*-4TC		2.5	98.6		79.5	40	1.0 to 4.5	57
VSP-C30-40S*-6TC		4						
VSP-C30-50S*-4TC		2.5	111.6		92.5	50	0.9 to 4.5	62
VSP-C30-50S*-6TC		4						

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

●VSP-C35, 50-□S*-4TC/6TC

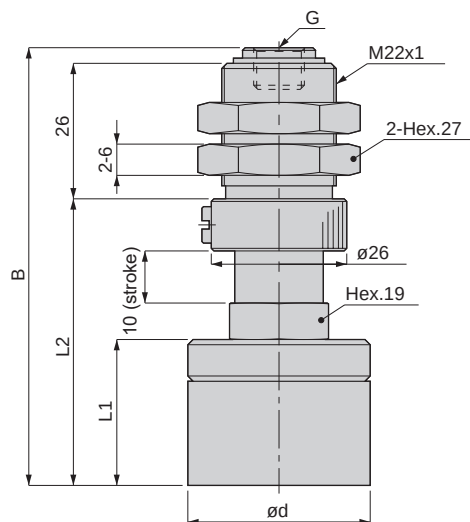


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C35-20S*-4TC	35	2.5	85.1	28	66	20	1.5 to 4.9	82
VSP-C35-20S*-6TC		4						
VSP-C35-30S*-4TC		2.5	98.1		79	30	1.1 to 4.8	87
VSP-C35-30S*-6TC		4						
VSP-C35-40S*-4TC		2.5	111.1		92	40	1.0 to 4.5	92
VSP-C35-40S*-6TC		4						
VSP-C35-50S*-4TC		2.5	124.1		105	50	0.9 to 4.5	90
VSP-C35-50S*-6TC		4						
VSP-C50-20S*-4TC	50	2.5	85.1	28	66	20	1.5 to 4.9	125
VSP-C50-20S*-6TC		4						
VSP-C50-30S*-4TC		2.5	98.1		79	30	1.1 to 4.8	130
VSP-C50-30S*-6TC		4						
VSP-C50-40S*-4TC		2.5	111.1		92	40	1.0 to 4.5	135
VSP-C50-40S*-6TC		4						
VSP-C50-50S*-4TC		2.5	124.1		105	50	0.9 to 4.5	133
VSP-C50-50S*-6TC		4						

Dimensions (buffer, vacuum outlet top VSP-C, female thread)

●VSP-C70, 100S*-6A



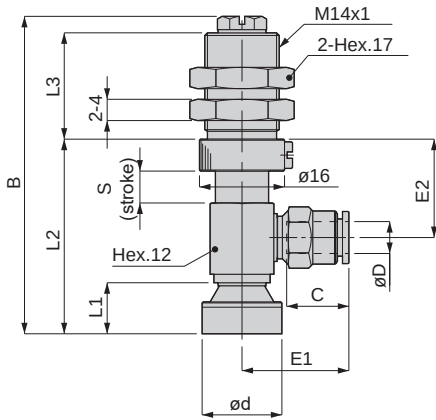
Unit: mm

Model No.	Pad diameter ød	Vacuum outlet size G	B	L1	L2	Spring force (N)	Weight (g)
VSP-C70S*-6A	70	G1/8	86	30	57	10.1 to 15.8	272
VSP-C100S*-6A	100	G1/8	86	30	57	10.1 to 15.8	403

VSP-**S*** Series

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

●VSP-D10 to 30S*-4/6

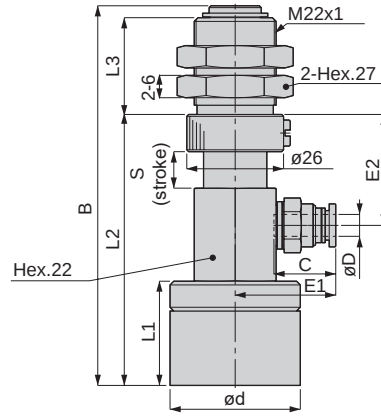
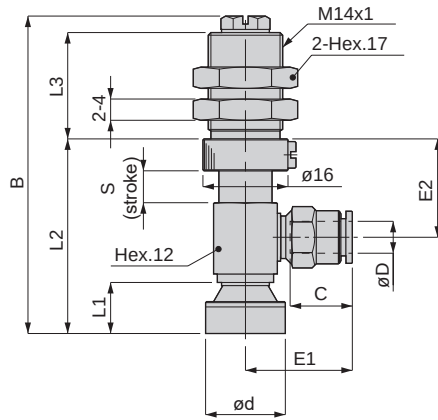


													Unit: mm	
	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)	
Sponge	VSP-D10S*-4	10	4	59.6	9.5	36.5	20	11.2	18.8	18.5	6	7.0 to 12.6	46	
	VSP-D10S*-6		6					11.9	20.1				47	
	VSP-D10-10S*-4		4	65.6		42.5	11.2	18.8	24.5	10	3.3 to 10.0	50		
	VSP-D10-10S*-6		6				11.9	20.1				51		
Bellows	VSP-D10-15S*-4		4	75.6		47.5	25	11.2	18.8	29.5	15	3.3 to 10.4	56	
	VSP-D10-15S*-6		6					11.9	20.1				57	
	VSP-D10-20S*-4		4	91.6		54.5	34	11.2	18.8	36.5	20	2.0 to 8.7	66	
	VSP-D10-20S*-6		6					11.9	20.1				67	
Multi-stage bellows	VSP-D15S*-4	15	4	59.6	9.5	36.5	20	11.2	18.8	18.5	6	7.0 to 12.6	46	
	VSP-D15S*-6		6					11.9	20.1				47	
	VSP-D15-10S*-4		4	65.6		42.5	11.2	18.8	24.5	10	3.3 to 10.0	50		
	VSP-D15-10S*-6		6				11.9	20.1				51		
Oval	VSP-D15-15S*-4		4	75.6		47.5	25	11.2	18.8	29.5	15	3.3 to 10.4	56	
	VSP-D15-15S*-6		6					11.9	20.1				57	
	Soft		VSP-D15-20S*-4	4		91.6	54.5	34	11.2	18.8	36.5	20	2.0 to 8.7	66
			VSP-D15-20S*-6	6					11.9	20.1				67
Soft bellows		VSP-D20S*-4	20	4	65.6	15.5	42.5	20	11.2	18.8	18.5	6	7.0 to 12.6	48
		VSP-D20S*-6		6					11.9	20.1				49
	VSP-D20-10S*-4	4		71.6	48.5		25	11.2	18.8	24.5	10	3.3 to 10.0	52	
	VSP-D20-10S*-6	6						11.9	20.1				53	
Anti-slip	VSP-D20-15S*-4	4		81.6	53.5		25	11.2	18.8	29.5	15	3.3 to 10.4	58	
	VSP-D20-15S*-6	6						11.9	20.1				59	
	VSP-D20-20S*-4	4		97.6	60.5		34	11.2	18.8	36.5	20	2.0 to 8.7	68	
	VSP-D20-20S*-6	6						11.9	20.1				69	
Thin object	VSP-D25S*-4	25	4	65.6	15.5	42.5	20	11.2	18.8	18.5	6	7.0 to 12.6	49	
	VSP-D25S*-6		6					11.9	20.1				50	
	VSP-D25-10S*-4		4	71.6		48.5	25	11.2	18.8	24.5	10	3.3 to 10.0	53	
	VSP-D25-10S*-6		6					11.9	20.1				54	
Flat	VSP-D25-15S*-4		4	81.6		53.5	25	11.2	18.8	29.5	15	3.3 to 10.4	59	
	VSP-D25-15S*-6		6					11.9	20.1				60	
	VSP-D25-20S*-4		4	97.6		60.5	34	11.2	18.8	36.5	20	2.0 to 8.7	69	
	VSP-D25-20S*-6		6					11.9	20.1				70	
Suction mark prevention	VSP-D30S*-4	30	4	65.6	15.5	42.5	20	11.2	18.8	18.5	6	7.0 to 12.6	49	
	VSP-D30S*-6		6					11.9	20.1				50	
	VSP-D30-10S*-4		4	71.6		48.5	25	11.2	18.8	24.5	10	3.3 to 10.0	53	
	VSP-D30-10S*-6		6					11.9	20.1				54	
VSP-D30-15S*-4	4		81.6	53.5		25	11.2	18.8	29.5	15	3.3 to 10.4	59		
VSP-D30-15S*-6	6						11.9	20.1				60		
VSP-D30-20S*-4	4		97.6	60.5		34	11.2	18.8	36.5	20	2.0 to 8.7	69		
VSP-D30-20S*-6	6						11.9	20.1				70		

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

●VSP-D35, 50S*-4/6

●VSP-D70, 100S*-4/6/8



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D35S*-4	35	4	78.1	28	55	20	11.2	18.8	18.5	6	7.0 to 12.6	73
VSP-D35S*-6		6					11.9	20.1				74
VSP-D35-10S*-4		4	84.1		61		11.2	18.8	24.5	10	3.3 to 10.0	89
VSP-D35-10S*-6		6					11.9	20.1				90
VSP-D35-15S*-4		4	94.1		66	25	11.2	18.8	29.5	15	3.3 to 10.4	95
VSP-D35-15S*-6		6					11.9	20.1				96
VSP-D35-20S*-4		4	110.1		73	34	11.2	18.8	36.5	20	2.0 to 8.7	105
VSP-D35-20S*-6		6					11.9	20.1				106
VSP-D50S*-4	50	4	78.1	28	55	20	11.2	18.8	18.5	6	7.0 to 12.6	116
VSP-D50S*-6		6					11.9	20.1				117
VSP-D50-10S*-4		4	84.1		61		11.2	18.8	24.5	10	3.3 to 10.0	132
VSP-D50-10S*-6		6					11.9	20.1				133
VSP-D50-15S*-4		4	94.1		66	25	11.2	18.8	29.5	15	3.3 to 10.4	138
VSP-D50-15S*-6		6					11.9	20.1				139
VSP-D50-20S*-4		4	110.1		73	34	11.2	18.8	36.5	20	2.0 to 8.7	148
VSP-D50-20S*-6		6					11.9	20.1				149
VSP-D70S*-4	70	4	104	30	75	26	11.2	21.5	30	10	10.1 to 15.8	363
VSP-D70S*-6		6					11.9	23.7				364
VSP-D70S*-8		8					18.2	32.1				369
VSP-D100S*-4	100	4	104	30	75	26	11.2	21.5	30	10	10.1 to 15.8	493
VSP-D100S*-6		6					11.9	23.7				494
VSP-D100S*-8		8					18.2	32.1				499

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

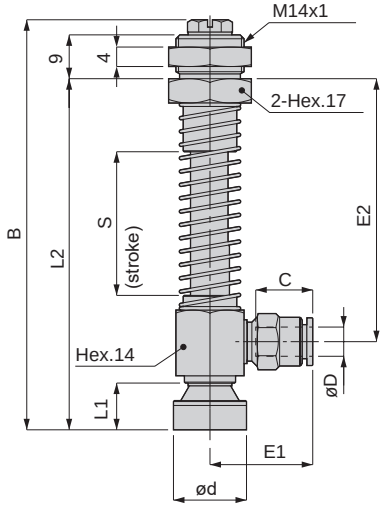
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D10 to 30-□S*-4C/6C

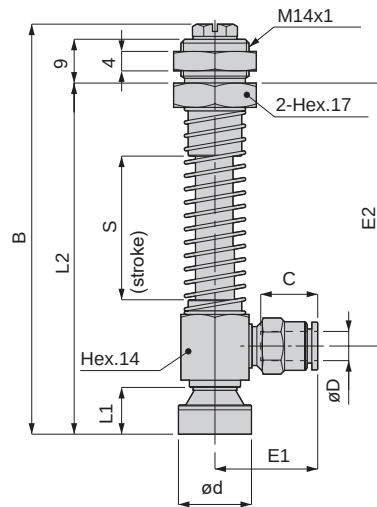


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10-20S*-4C	10	4	71.1	9.5	59	11.2	19.8	41	20	1.5 to 4.9	64
VSP-D10-20S*-6C		6				11.9	21.1				65
VSP-D10-30S*-4C		4	84.1		72	11.2	19.8	54	30	1.1 to 4.8	71
VSP-D10-30S*-6C		6				11.9	21.1				72
VSP-D10-40S*-4C		4	97.1		85	11.2	19.8	67	40	1.0 to 4.5	78
VSP-D10-40S*-6C		6				11.9	21.1				79
VSP-D10-50S*-4C		4	110.1		98	11.2	19.8	80	50	0.9 to 4.5	84
VSP-D10-50S*-6C		6				11.9	21.1				85
VSP-D15-20S*-4C	15	4	71.1	9.5	59	11.2	19.8	41	20	1.5 to 4.9	65
VSP-D15-20S*-6C		6				11.9	21.1				66
VSP-D15-30S*-4C		4	84.1		72	11.2	19.8	54	30	1.1 to 4.8	71
VSP-D15-30S*-6C		6				11.9	21.1				72
VSP-D15-40S*-4C		4	97.1		85	11.2	19.8	67	40	1.0 to 4.5	78
VSP-D15-40S*-6C		6				11.9	21.1				79
VSP-D15-50S*-4C		4	110.1		98	11.2	19.8	80	50	0.9 to 4.5	85
VSP-D15-50S*-6C		6				11.9	21.1				86
VSP-D20-20S*-4C	20	4	77.1	15.5	65	11.2	19.8	41	20	1.5 to 4.9	66
VSP-D20-20S*-6C		6				11.9	21.1				67
VSP-D20-30S*4C		4	90.1		78	11.2	19.8	54	30	1.1 to 4.8	73
VSP-D20-30S*-6C		6				11.9	21.1				74
VSP-D20-40S*-4C		4	103.1		91	11.2	19.8	67	40	1.0 to 4.5	80
VSP-D20-40S*-6C		6				11.9	21.1				81
VSP-D20-50S*-4C		4	116.1		104	11.2	19.8	80	50	0.9 to 4.5	86
VSP-D20-50S*-6C		6				11.9	21.1				87
VSP-D25-20S*4C	25	4	77.1	15.5	65	11.2	19.8	41	20	1.5 to 4.9	68
VSP-D25-20S*-6C		6				11.9	21.1				69
VSP-D25-30S*-4C		4	90.1		78	11.2	19.8	54	30	1.1 to 4.8	74
VSP-D25-30S*-6C		6				11.9	21.1				75
VSP-D25-40S*-4C		4	103.1		91	11.2	19.8	67	40	1.0 to 4.5	81
VSP-D25-40S*-6C		6				11.9	21.1				82
VSP-D25-50S*-4C		4	116.1		104	11.2	19.8	80	50	0.9 to 4.5	88
VSP-D25-50S*-6C		6				11.9	21.1				89
VSP-D30-20S*-4C	30	4	77.1	15.5	65	11.2	19.8	41	20	1.5 to 4.9	68
VSP-D30-20S*-6C		6				11.9	21.1				69
VSP-D30-30S*-4C		4	90.1		78	11.2	19.8	54	30	1.1 to 4.8	74
VSP-D30-30S*-6C		6				11.9	21.1				75
VSP-D30-40S*-4C		4	103.1		91	11.2	19.8	67	40	1.0 to 4.5	81
VSP-D30-40S*-6C		6				11.9	21.1				82
VSP-D30-50S*-4C		4	116.1		104	11.2	19.8	80	50	0.9 to 4.5	88
VSP-D30-50S*-6C		6				11.9	21.1				89

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D35, 50-□S*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D35-20S*-4C	35	4	89.6	28	77.5	11.2	19.8	41	20	1.5 to 4.9	103
VSP-D35-20S*-6C		6				11.9	21.1				104
VSP-D35-30S*-4C		4	102.6		90.5	11.2	19.8	54	30	1.1 to 4.8	110
VSP-D35-30S*-6C		6				11.9	21.1				111
VSP-D35-40S*-4C		4	115.6		103.5	11.2	19.8	67	40	1.0 to 4.5	117
VSP-D35-40S*-6C		6				11.9	21.1				118
VSP-D35-50S*-4C		4	128.6		116.5	11.2	19.8	80	50	0.9 to 4.5	124
VSP-D35-50S*-6C		6				11.9	21.1				125
VSP-D50-20S*-4C	50	4	89.6	28	77.5	11.2	19.8	41	20	1.5 to 4.9	146
VSP-D50-20S*-6C		6				11.9	21.1				147
VSP-D50-30S*-4C		4	102.6		90.5	11.2	19.8	54	30	1.1 to 4.8	153
VSP-D50-30S*-6C		6				11.9	21.1				154
VSP-D50-40S*-4C		4	115.6		103.5	11.2	19.8	67	40	1.0 to 4.5	160
VSP-D50-40S*-6C		6				11.9	21.1				161
VSP-D50-50S*-4C		4	128.6		116.5	11.2	19.8	80	50	0.9 to 4.5	167
VSP-D50-50S*-6C		6				11.9	21.1				168

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

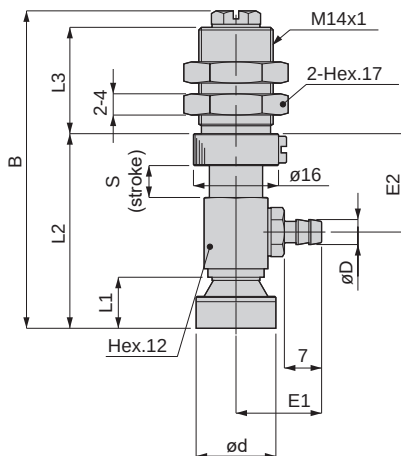
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

●VSP-D10 to 30S*-4T/6T

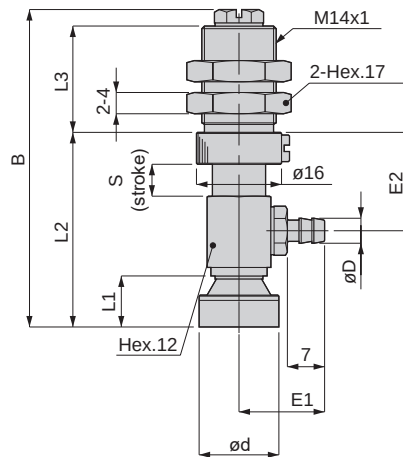


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10S*-4T	10	4	59.6	9.5	36.5	20	15.9	18.5	6	7.0 to 12.6	45
VSP-D10S*-6T		6									
VSP-D10-10S*-4T		4	65.6		42.5	25		29.5	15	3.3 to 10.4	57
VSP-D10-10S*-6T		6									
VSP-D10-15S*-4T		4	75.6		47.5	34		36.5	20	2.0 to 8.7	67
VSP-D10-15S*-6T		6									
VSP-D10-20S*-4T		4	91.6		54.5	34		36.5	20	2.0 to 8.7	67
VSP-D10-20S*-6T		6									
VSP-D15S*-4T	15	4	59.6	9.5	36.5	20	15.9	18.5	6	7.0 to 12.6	45
VSP-D15S*-6T		6									
VSP-D15-10S*-4T		4	65.6		42.5	25		29.5	15	3.3 to 10.4	57
VSP-D15-10S*-6T		6									
VSP-D15-15S*-4T		4	75.6		47.5	34		36.5	20	2.0 to 8.7	67
VSP-D15-15S*-6T		6									
VSP-D15-20S*-4T		4	91.6		54.5	34		36.5	20	2.0 to 8.7	67
VSP-D15-20S*-6T		6									
VSP-D20S*-4T	20	4	65.6	15.5	42.5	20	15.9	18.5	6	7.0 to 12.6	47
VSP-D20S*-6T		6									
VSP-D20-10S*-4T		4	71.6		48.5	25		29.5	15	3.3 to 10.4	59
VSP-D20-10S*-6T		6									
VSP-D20-15S*-4T		4	81.6		53.5	34		36.5	20	2.0 to 8.7	69
VSP-D20-15S*-6T		6									
VSP-D20-20S*-4T		4	97.6		60.5	34		36.5	20	2.0 to 8.7	69
VSP-D20-20S*-6T		6									
VSP-D25S*-4T	25	4	65.6	15.5	42.5	20	15.9	18.5	6	7.0 to 12.6	48
VSP-D25S*-6T		6									
VSP-D25-10S*-4T		4	71.6		48.5	25		29.5	15	3.3 to 10.4	60
VSP-D25-10S*-6T		6									
VSP-D25-15S*-4T		4	81.6		53.5	34		36.5	20	2.0 to 8.7	70
VSP-D25-15S*-6T		6									
VSP-D25-20S*-4T		4	97.6		60.5	34		36.5	20	2.0 to 8.7	70
VSP-D25-20S*-6T		6									
VSP-D30S*-4T	30	4	65.6	15.5	42.5	20	15.9	18.5	6	7.0 to 12.6	48
VSP-D30S*-6T		6									
VSP-D30-10S*-4T		4	71.6		48.5	25		29.5	15	3.3 to 10.4	60
VSP-D30-10S*-6T		6									
VSP-D30-15S*-4T		4	81.6		53.5	34		36.5	20	2.0 to 8.7	70
VSP-D30-15S*-6T		6									
VSP-D30-20S*-4T		4	97.6		60.5	34		36.5	20	2.0 to 8.7	70
VSP-D30-20S*-6T		6									

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

●VSP-D35, 50S*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D35S*-4T	35	4	78.1	28	55	20	15.9	18.5	6	7.0 to 12.6	84
VSP-D35S*-6T		6									
VSP-D35-10S*-4T		4	84.1		66	25		29.5	15	3.3 to 10.4	94
VSP-D35-10S*-6T		6									
VSP-D35-15S*-4T		4	110.1		34	36.5		20	2.0 to 8.7	95	
VSP-D35-15S*-6T		6									110.1
VSP-D35-20S*-4T		4	110.1		34	36.5		20	2.0 to 8.7	95	
VSP-D35-20S*-6T		6									110.1
VSP-D50S*-4T	50	4	78.1	28	55	20	15.9	18.5	6	7.0 to 12.6	
VSP-D50S*-6T		6									61
VSP-D50-10S*-4T		4	84.1		66	25		29.5	15	3.3 to 10.4	
VSP-D50-10S*-6T		6									94.1
VSP-D50-15S*-4T		4	94.1		73	34		36.5	20	2.0 to 8.7	
VSP-D50-15S*-6T		6									94.1
VSP-D50-20S*-4T		4	110.1		73	34		36.5	20	2.0 to 8.7	
VSP-D50-20S*-6T		6									110.1

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

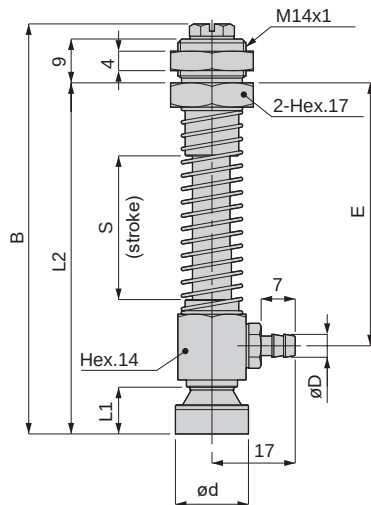
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D10 to 30-□S*-4TC/6TC

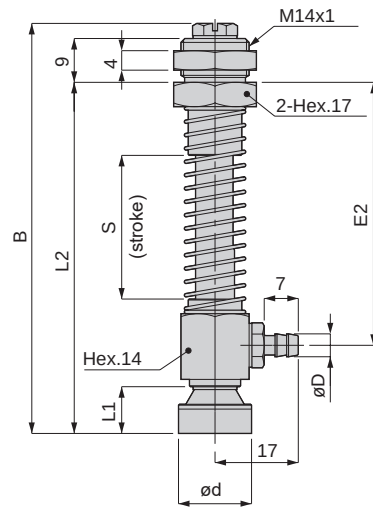


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D10-20S*-4TC	10	4	71.1	9.5	59	41	20	1.5 to 4.9	63
VSP-D10-20S*-6TC		6							
VSP-D10-30S*-4TC		4							
VSP-D10-30S*-6TC		6							
VSP-D10-40S*-4TC		4							
VSP-D10-40S*-6TC		6							
VSP-D10-50S*-4TC	15	4	97.1	9.5	85	67	40	1.0 to 4.5	77
VSP-D10-50S*-6TC		6							
VSP-D15-20S*-4TC		4							
VSP-D15-20S*-6TC		6							
VSP-D15-30S*-4TC		4							
VSP-D15-30S*-6TC		6							
VSP-D15-40S*-4TC	20	4	97.1	9.5	85	67	40	1.0 to 4.5	77
VSP-D15-40S*-6TC		6							
VSP-D15-50S*-4TC		4							
VSP-D15-50S*-6TC		6							
VSP-D20-20S*-4TC	25	4	77.1	15.5	65	41	20	1.5 to 4.9	65
VSP-D20-20S*-6TC		6							
VSP-D20-30S*-4TC		4							
VSP-D20-30S*-6TC		6							
VSP-D20-40S*-4TC		4							
VSP-D20-40S*-6TC		6							
VSP-D20-50S*-4TC	30	4	116.1	15.5	104	80	50	0.9 to 4.5	85
VSP-D20-50S*-6TC		6							
VSP-D25-20S*-4TC		4							
VSP-D25-20S*-6TC		6							
VSP-D25-30S*-4TC		4							
VSP-D25-30S*-6TC		6							
VSP-D25-40S*-4TC	30	4	103.1	15.5	91	67	40	1.0 to 4.5	80
VSP-D25-40S*-6TC		6							
VSP-D25-50S*-4TC		4							
VSP-D25-50S*-6TC		6							
VSP-D30-20S*-4TC	30	4	77.1	15.5	65	41	20	1.5 to 4.9	67
VSP-D30-20S*-6TC		6							
VSP-D30-30S*-4TC		4							
VSP-D30-30S*-6TC		6							
VSP-D30-40S*-4TC		4							
VSP-D30-40S*-6TC		6							
VSP-D30-50S*-4TC	30	4	116.1	15.5	104	80	50	0.9 to 4.5	87
VSP-D30-50S*-6TC		6							

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D35, 50-□S*-4TC/6TC



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D35-20S*-4TC	35	4	89.6	28	77.5	41	20	1.5 to 4.9	102
VSP-D35-20S*-6TC		6							
VSP-D35-30S*-4TC		4	102.6		90.5	54	30	1.1 to 4.8	109
VSP-D35-30S*-6TC		6							
VSP-D35-40S*-4TC		4	115.6		103.5	67	40	1.0 to 4.5	116
VSP-D35-40S*-6TC		6							
VSP-D35-50S*-4TC		4	128.6		116.5	80	50	0.9 to 4.5	123
VSP-D35-50S*-6TC		6							
VSP-D50-20S*-4TC	50	4	89.6	28	77.5	41	20	1.5 to 4.9	145
VSP-D50-20S*-6TC		6							
VSP-D50-30S*-4TC		4	102.6		90.5	54	30	1.1 to 4.8	152
VSP-D50-30S*-6TC		6							
VSP-D50-40S*-4TC		4	115.6		103.5	67	40	1.0 to 4.5	159
VSP-D50-40S*-6TC		6							
VSP-D50-50S*-4TC		4	128.6		116.5	80	50	0.9 to 4.5	167
VSP-D50-50S*-6TC		6							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

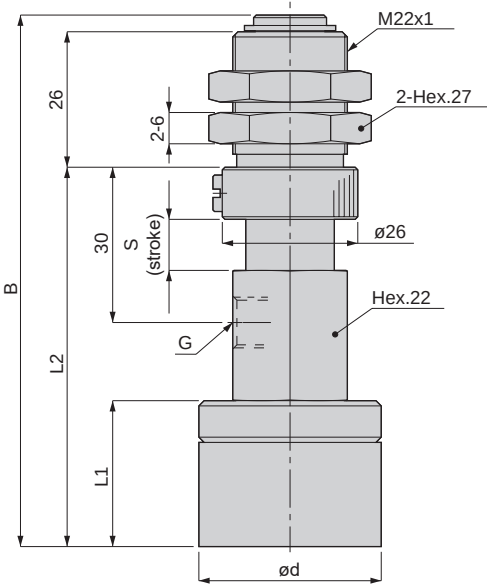
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, female thread)

●VSP-D70, 100S*-6A

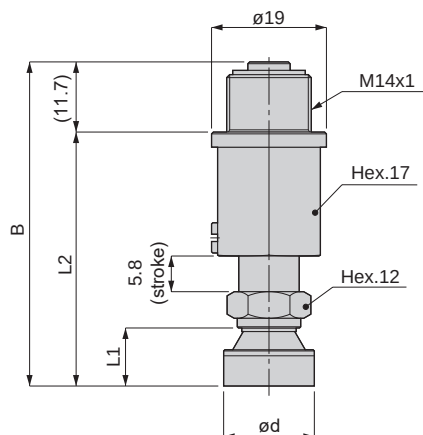


Unit: mm

Model No.	Pad diameter ød	Vacuum outlet size G	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-D70S*-6A	70	G1/8	104	30	75	10	10.1 to 15.8	355
VSP-D100S*-6A	100	G1/8	104	30	75	10	10.1 to 15.8	485

Dimensions (buffer, direct mounting, VSP-F, male thread)

●VSP-F10 to 50S*



Unit: mm

Model No.	Pad diameter ϕd	B	L1	L2	Spring force (N)	Weight (g)
VSP-F10S*	10	53.5	9.5	41.8	7.9 to 15	54
VSP-F15S*	15	53.5	9.5	41.8	7.9 to 15	55
VSP-F20S*	20	59.5	15.5	47.8	7.9 to 15	56
VSP-F25S*	25	59.5	15.5	47.8	7.9 to 15	58
VSP-F30S*	30	59.5	15.5	47.8	7.9 to 15	58
VSP-F35S*	35	72	28	60.3	7.9 to 15	93
VSP-F50S*	50	72	28	60.3	7.9 to 15	136

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

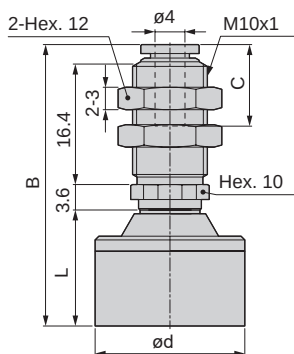
Thin object

Flat

Suction mark
prevention

Dimensions (compact, fixed, vacuum outlet, top, VSP-MA, push-in fitting)

● VSP-MA10 to 50S*-4

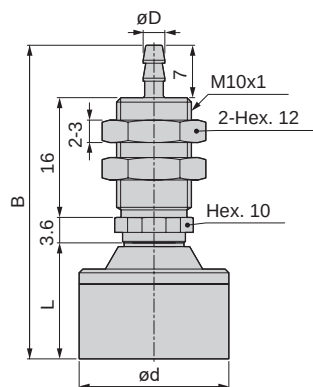


Unit: mm

Model No.	Pad diameter Ød	B	L	Tube end C	Weight (g)
VSP-MA10S*-4	10	32.1	9.5	11.2	7.6
VSP-MA15S*-4	15	32.1	9.5	11.2	7.9
VSP-MA20S*-4	20	38.1	15.5	11.2	9.5
VSP-MA25S*-4	25	38.1	15.5	11.2	11
VSP-MA30S*-4	30	38.1	15.5	11.2	11
VSP-MA35S*-4	35	50.6	28	11.2	45
VSP-MA50S*-4	50	50.6	28	11.2	90

Dimensions (compact, fixed, vacuum outlet, top, VSP-MA, barbed fitting)

● VSP-MA10 to 50S*-4T/6T

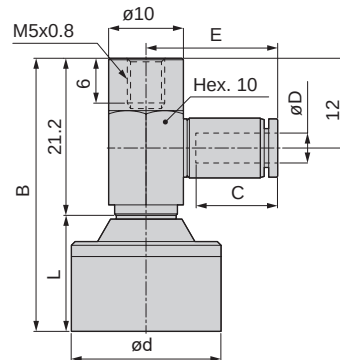


Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Weight (g)
VSP-MA10S*-4T	10	2.5	36.1	9.5	7.6
VSP-MA10S*-6T		4			
VSP-MA15S*-4T	15	2.5	36.1	9.5	7.9
VSP-MA15S*-6T		4			
VSP-MA20S*-4T	20	2.5	42.1	15.5	9.5
VSP-MA20S*-6T		4			
VSP-MA25S*-4T	25	2.5	42.1	15.5	11
VSP-MA25S*-6T		4			
VSP-MA30S*-4T	30	2.5	42.1	15.5	11
VSP-MA30S*-6T		4			
VSP-MA35S*-4T	35	2.5	54.6	28	45
VSP-MA35S*-6T		4			
VSP-MA50S*-4T	50	2.5	54.6	28	90
VSP-MA50S*-6T		4			

Dimensions (compact, fixed, vacuum outlet, lateral, VSP-MB, push-in fitting)

● VSP-MB10 to 50S*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB10S*-2	10	1.8	30.7	9.5	8.4	13.7	7.8
VSP-MB10S*-4		4			11.2	17.8	8.5
VSP-MB10S*-6		6			11.9	19.6	9.9
VSP-MB15S*-2	15	1.8	30.7	9.5	8.4	13.7	8.1
VSP-MB15S*-4		4			11.2	17.8	8.8
VSP-MB15S*-6		6			11.9	19.6	10.2
VSP-MB20S*-2	20	1.8	36.7	15.5	8.4	13.7	10
VSP-MB20S*-4		4			11.2	17.8	11
VSP-MB20S*-6		6			11.9	19.6	12
VSP-MB25S*-2	25	1.8	36.7	15.5	8.4	13.7	11
VSP-MB25S*-4		4			11.2	17.8	12
VSP-MB25S*-6		6			11.9	19.6	13
VSP-MB30S*-2	30	1.8	36.7	15.5	8.4	13.7	11
VSP-MB30S*-4		4			11.2	17.8	12
VSP-MB30S*-6		6			11.9	19.6	13
VSP-MB35S*-2	35	1.8	49.2	28	8.4	13.7	44
VSP-MB35S*-4		4			11.2	17.8	45
VSP-MB35S*-6		6			11.9	19.6	46
VSP-MB50S*-2	50	1.8	49.2	28	8.4	13.7	90
VSP-MB50S*-4		4			11.2	17.8	91
VSP-MB50S*-6		6			11.9	19.6	92

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

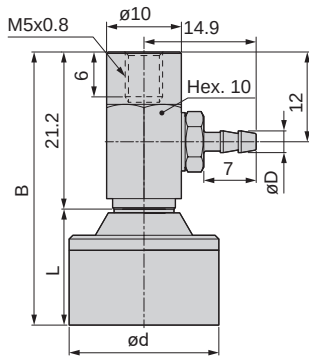
Thin object

Flat

Suction mark
prevention

Dimensions (compact, fixed, vacuum outlet, side, VSP-MB, barbed fitting)

●VSP-MB10 to 50S*-4T/6T



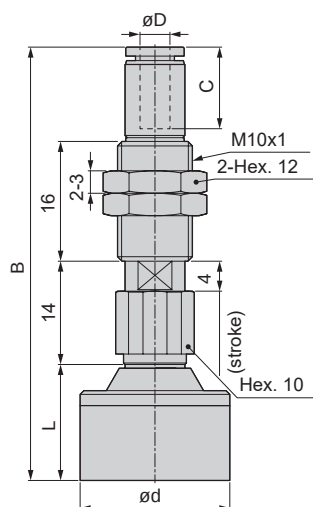
Unit: mm

Model No.	Pad diameter ød	Bore size D	B	L	Weight (g)
VSP-MB10S*-4T	10	2.5	30.7	9.5	7.3
VSP-MB10S*-6T		4			
VSP-MB15S*-4T	15	2.5	30.7	9.5	7.6
VSP-MB15S*-6T		4			
VSP-MB20S*-4T	20	2.5	36.7	15.5	9.3
VSP-MB20S*-6T		4			
VSP-MB25S*-4T	25	2.5	36.7	15.5	11
VSP-MB25S*-6T		4			
VSP-MB30S*-4T	30	2.5	36.7	15.5	11
VSP-MB30S*-6T		4			
VSP-MB35S*-4T	35	2.5	49.2	28	45
VSP-MB35S*-6T		4			
VSP-MB50S*-4T	50	2.5	49.2	28	90
VSP-MB50S*-6T		4			

- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

●VSP-MC10 to 50S*-2/4



Unit: mm

Model No.	Pad diameter ϕd	Bore size ϕD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC10S*-2	10	1.8	48.4	9.5	8.4	1 to 1.3	19
VSP-MC10S*-4		4	52.5		11.2		20
VSP-MC15S*-2	15	1.8	48.4	9.5	8.4	1 to 1.3	19
VSP-MC15S*-4		4	52.5		11.2		20
VSP-MC20S*-2	20	1.8	54.4	15.5	8.4	1 to 1.3	21
VSP-MC20S*-4		4	58.5		11.2		22
VSP-MC25S*-2	25	1.8	54.4	15.5	8.4	1 to 1.3	22
VSP-MC25S*-4		4	58.5		11.2		23
VSP-MC30S*-2	30	1.8	54.4	15.5	8.4	1 to 1.3	22
VSP-MC30S*-4		4	58.5		11.2		23
VSP-MC35S*-2	35	1.8	66.9	28	8.4	1 to 1.3	56
VSP-MC35S*-4		4	71		11.2		57
VSP-MC50S*-2	50	1.8	66.9	28	8.4	1 to 1.3	101
VSP-MC50S*-4		4	71		11.2		102

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

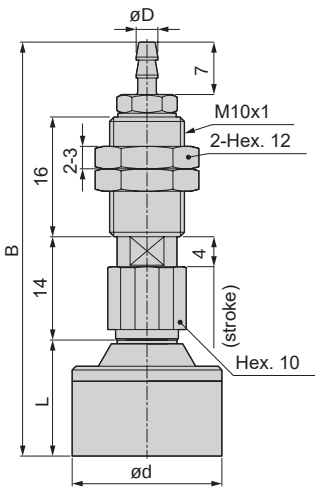
Thin object

Flat

Suction mark
prevention

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

●VSP-MC10 to 50S*-4T/6T

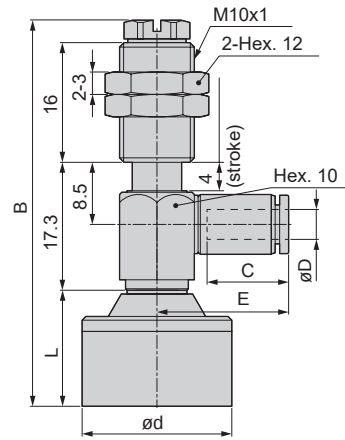


Unit: mm

Model No.	Pad diameter ϕd	Bore size ϕD	B	L	Spring force (N)	Weight (g)
VSP-MC10S*-4T	10	2.5	49.6	9.5	1 to 1.3	19
VSP-MC10S*-6T		4				
VSP-MC15S*-4T	15	2.5	49.6	9.5	1 to 1.3	19
VSP-MC15S*-6T		4				
VSP-MC20S*-4T	20	2.5	55.6	15.5	1 to 1.3	21
VSP-MC20S*-6T		4				
VSP-MC25S*-4T	25	2.5	55.6	15.5	1 to 1.3	22
VSP-MC25S*-6T		4				
VSP-MC30S*-4T	30	2.5	55.6	15.5	1 to 1.3	23
VSP-MC30S*-6T		4				
VSP-MC35S*-4T	35	2.5	68.1	28	1 to 1.3	57
VSP-MC35S*-6T		4				
VSP-MC50S*-4T	50	2.5	68.1	28	1 to 1.3	102
VSP-MC50S*-6T		4				

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

●VSP-MD10 to 50S*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD10S*-2	10	1.8	45.8	9.5	8.4	13.6	1 to 1.3	22
VSP-MD10S*-4		4			11.2	17.7		23
VSP-MD10S*-6		6			11.9	19.5		24
VSP-MD15S*-2	15	1.8	45.8	9.5	8.4	13.6	1 to 1.3	23
VSP-MD15S*-4		4			11.2	17.7		24
VSP-MD15S*-6		6			11.9	19.5		25
VSP-MD20S*-2	20	1.8	51.8	15.5	8.4	13.6	1 to 1.3	24
VSP-MD20S*-4		4			11.2	17.7		25
VSP-MD20S*-6		6			11.9	19.5		26
VSP-MD25S*-2	25	1.8	51.8	15.5	8.4	13.6	1 to 1.3	26
VSP-MD25S*-4		4			11.2	17.7		27
VSP-MD25S*-6		6			11.9	19.5		28
VSP-MD30S*-2	30	1.8	51.8	15.5	8.4	13.6	1 to 1.3	26
VSP-MD30S*-4		4			11.2	17.7		27
VSP-MD30S*-6		6			11.9	19.5		28
VSP-MD35S*-2	35	1.8	64.3	28	8.4	13.6	1 to 1.3	60
VSP-MD35S*-4		4			11.2	17.7		61
VSP-MD35S*-6		6			11.9	19.5		62
VSP-MD50S*-2	50	1.8	64.3	28	8.4	13.6	1 to 1.3	105
VSP-MD50S*-4		4			11.2	17.7		106
VSP-MD50S*-6		6			11.9	19.5		107

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

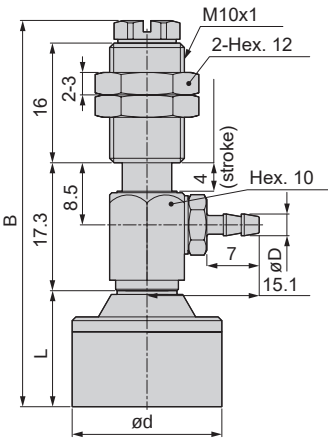
Thin object

Flat

Suction mark
prevention

Dimensions (compact buffer, vacuum outlet side VSP-MD, barbed fitting)

●VSP-MD10 to 50S*-4T/6T



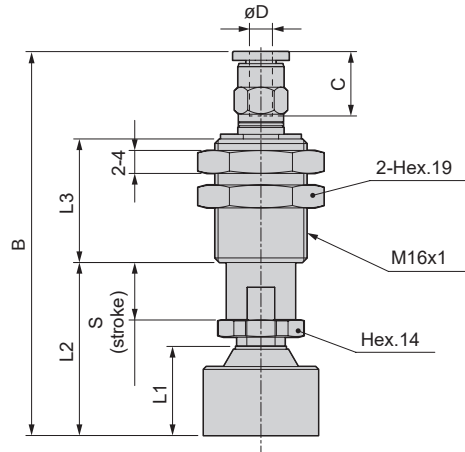
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MD10S*-2	10	2.5	45.8	9.5	1 to 1.3	22
VSP-MD10S*-4		4				
VSP-MD15S*-2	15	2.5	45.8	9.5	1 to 1.3	23
VSP-MD15S*-4		4				
VSP-MD20S*-2	20	2.5	51.8	15.5	1 to 1.3	24
VSP-MD20S*-4		4				
VSP-MD25S*-2	25	2.5	51.8	15.5	1 to 1.3	26
VSP-MD25S*-4		4				
VSP-MD30S*-2	30	2.5	51.8	15.5	1 to 1.3	26
VSP-MD30S*-4		4				
VSP-MD35S*-2	35	2.5	64.3	28	1 to 1.3	60
VSP-MD35S*-4		4				
VSP-MD50S*-2	50	2.5	64.3	28	1 to 1.3	105
VSP-MD50S*-4		4				

- Suction pad
- General/Deep/
Compact
- Sponge
- Bellows
- Multi-stage
bellows
- Oval
- Soft
- Soft
bellows
- Anti-slip
- Thin object
- Flat
- Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC10, 15-□S*-2/4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10S*-2	10	1.8	56.7	9.5	24.1	21.5	8.4	10	1.0 to 2.4	26
VSP-HC10-10S*-4		4	60.8				11.2			27
VSP-HC10-10S*-6		6	62.1				11.9			28
VSP-HC10-15S*-2		1.8	66.7		29.1	26.5	8.4	15	1.0 to 2.7	28
VSP-HC10-15S*-4		4	70.8				11.2			29
VSP-HC10-15S*-6		6	72.1				11.9			30
VSP-HC10-20S*-2		1.8	76.7		34.1	31.5	8.4	20	1.0 to 3.0	30
VSP-HC10-20S*-4		4	80.8				11.2			31
VSP-HC10-20S*-6		6	82.1				11.9			32
VSP-HC10-25S*-2		1.8	87.2		39.1	37	8.4	25	1.0 to 3.0	32
VSP-HC10-25S*-4		4	91.3				11.2			33
VSP-HC10-25S*-6		6	92.6				11.9			34
VSP-HC10-30S*-2		1.8	98.2		44.1	43	8.4	30	1.0 to 3.0	34
VSP-HC10-30S*-4		4	102.3				11.2			35
VSP-HC10-30S*-6		6	103.6				11.9			36
VSP-HC10-40S*-2		1.8	120.2		54.1	55	8.4	40	1.0 to 3.0	38
VSP-HC10-40S*-4		4	124.3				11.2			39
VSP-HC10-40S*-6		6	125.6				11.9			40
VSP-HC10-50S*-2		1.8	141.7		64.1	66.5	8.4	50	1.0 to 3.1	42
VSP-HC10-50S*-4		4	145.8				11.2			43
VSP-HC10-50S*-6		6	147.1				11.9			44
VSP-HC15-10S*-2	15	1.8	56.7	9.5	24.1	21.5	8.4	10	1.0 to 2.4	26
VSP-HC15-10S*-4		4	60.8				11.2			27
VSP-HC15-10S*-6		6	62.1				11.9			28
VSP-HC15-15S*-2		1.8	66.7		29.1	26.5	8.4	15	1.0 to 2.7	28
VSP-HC15-15S*-4		4	70.8				11.2			29
VSP-HC15-15S*-6		6	72.1				11.9			30
VSP-HC15-20S*-2		1.8	76.7		34.1	31.5	8.4	20	1.0 to 3.0	30
VSP-HC15-20S*-4		4	80.8				11.2			31
VSP-HC15-20S*-6		6	82.1				11.9			32
VSP-HC15-25S*-2		1.8	87.2		39.1	37	8.4	25	1.0 to 3.0	32
VSP-HC15-25S*-4		4	91.3				11.2			33
VSP-HC15-25S*-6		6	92.6				11.9			34
VSP-HC15-30S*-2		1.8	98.2		44.1	43	8.4	30	1.0 to 3.0	34
VSP-HC15-30S*-4		4	102.3				11.2			35
VSP-HC15-30S*-6		6	103.6				11.9			36
VSP-HC15-40S*-2		1.8	120.2		54.1	55	8.4	40	1.0 to 3.0	38
VSP-HC15-40S*-4		4	124.3				11.2			39
VSP-HC15-40S*-6		6	125.6				11.9			40
VSP-HC15-50S*-2		1.8	141.7		64.1	66.5	8.4	50	1.0 to 3.1	42
VSP-HC15-50S*-4		4	145.8				11.2			43
VSP-HC15-50S*-6		6	147.1				11.9			44

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

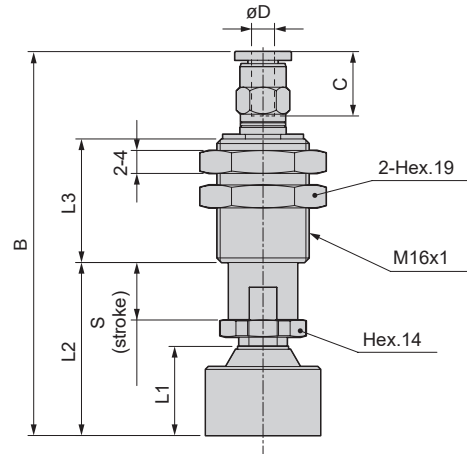
Thin object

Flat

Suction mark prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC20, 25-□S*-2/4/6

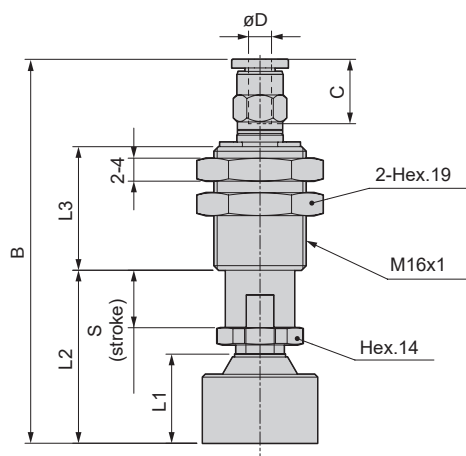


Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC20-10S*-2	20	1.8	62.7	15.5	30.1	21.5	8.4	10	1.0 to 2.4	28
Sponge	VSP-HC20-10S*-4		4	66.8				11.2			29
	VSP-HC20-10S*-6		6	68.1				11.9			30
Bellows	VSP-HC20-15S*-2		1.8	72.7		35.1	26.5	8.4	15	1.0 to 2.7	30
	VSP-HC20-15S*-4		4	76.8				11.2			31
	VSP-HC20-15S*-6		6	78.1				11.9			32
Multi-stage bellows	VSP-HC20-20S*-2		1.8	82.7		40.1	31.5	8.4	20	1.0 to 3.0	32
	VSP-HC20-20S*-4		4	86.8				11.2			33
	VSP-HC20-20S*-6		6	88.1				11.9			34
Oval	VSP-HC20-25S*-2		1.8	93.2		45.1	37	8.4	25	1.0 to 3.0	34
	VSP-HC20-25S*-4		4	97.3				11.2			35
	VSP-HC20-25S*-6		6	98.6				11.9			36
Soft	VSP-HC20-30S*-2		1.8	104.2		50.1	43	8.4	30	1.0 to 3.0	36
	VSP-HC20-30S*-4		4	108.3				11.2			37
	VSP-HC20-30S*-6		6	109.6				11.9			38
Soft bellows	VSP-HC20-40S*-2		1.8	126.2		60.1	55	8.4	40	1.0 to 3.0	40
	VSP-HC20-40S*-4		4	130.3				11.2			41
	VSP-HC20-40S*-6		6	131.6				11.9			42
Anti-slip	VSP-HC20-50S*-2		1.8	147.7		70.1	66.5	8.4	50	1.0 to 3.1	44
	VSP-HC20-50S*-4		4	151.8				11.2			45
	VSP-HC20-50S*-6		6	153.1				11.9			46
Thin object	VSP-HC25-10S*-2	25	1.8	62.7	15.5	30.1	21.5	8.4	10	1.0 to 2.4	29
Flat	VSP-HC25-10S*-4		4	66.8				11.2			30
	VSP-HC25-10S*-6		6	68.1				11.9			31
Suction mark prevention	VSP-HC25-15S* 2		1.8	72.7		35.1	26.5	8.4	15	1.0 to 2.7	31
	VSP-HC25-15S*-4		4	76.8				11.2			32
	VSP-HC25-15S*-6		6	78.1				11.9			33
	VSP-HC25-20S*-2		1.8	82.7		40.1	31.5	8.4	20	1.0 to 3.0	33
	VSP-HC25-20S*-4		4	86.8				11.2			34
	VSP-HC25-20S*-6		6	88.1				11.9			35
	VSP-HC25-25S*-2		1.8	93.2		45.1	37	8.4	25	1.0 to 3.0	35
	VSP-HC25-25S*-4		4	97.3				11.2			36
	VSP-HC25-25S*-6		6	98.6				11.9			37
	VSP-HC25-30S*-2		1.8	104.2		50.1	43	8.4	30	1.0 to 3.0	37
	VSP-HC25-30S*-4		4	108.3				11.2			38
	VSP-HC25-30S*-6		6	109.6				11.9			39
	VSP-HC25-40S*-2		1.8	126.2		60.1	55	8.4	40	1.0 to 3.0	41
	VSP-HC25-40S*-4		4	130.3				11.2			42
	VSP-HC25-40S*-6		6	131.6				11.9			43
	VSP-HC25-50S*-2		1.8	147.7		70.1	66.5	8.4	50	1.0 to 3.1	45
	VSP-HC25-50S*-4		4	151.8				11.2			46
	VSP-HC25-50S*-6		6	153.1				11.9			47

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC30-□S*-2/4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC30-10S*-2	30	1.8	62.7	15.5	30.1	21.5	8.4	10	1.0 to 2.4	30
VSP-HC30-10S*-4		4	66.8				11.2			31
VSP-HC30-10S*-6		6	68.1				11.9			32
VSP-HC30-15S*-2		1.8	72.7		35.1	26.5	8.4	15	1.0 to 2.7	32
VSP-HC30-15S*-4		4	76.8				11.2			33
VSP-HC30-15S*-6		6	78.1				11.9			34
VSP-HC30-20S*-2		1.8	82.7		40.1	31.5	8.4	20	1.0 to 3.0	34
VSP-HC30-20S*-4		4	86.8				11.2			35
VSP-HC30-20S*-6		6	88.1				11.9			36
VSP-HC30-25S*-2		1.8	93.2		45.1	37	8.4	25	1.0 to 3.0	36
VSP-HC30-25S*-4		4	97.3				11.2			37
VSP-HC30-25S*-6		6	98.6				11.9			38
VSP-HC30-30S*-2		1.8	104.2		50.1	43	8.4	30	1.0 to 3.0	38
VSP-HC30-30S*-4		4	108.3				11.2			39
VSP-HC30-30S*-6		6	109.6				11.9			40
VSP-HC30-40S*-2		1.8	126.2		60.1	55	8.4	40	1.0 to 3.0	42
VSP-HC30-40S*-4		4	130.3				11.2			43
VSP-HC30-40S*-6		6	131.6				11.9			44
VSP-HC30-50S*-2		1.8	147.7		70.1	66.5	8.4	50	1.0 to 3.1	46
VSP-HC30-50S*-4		4	151.8				11.2			47
VSP-HC30-50S*-6		6	153.1				11.9			48

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

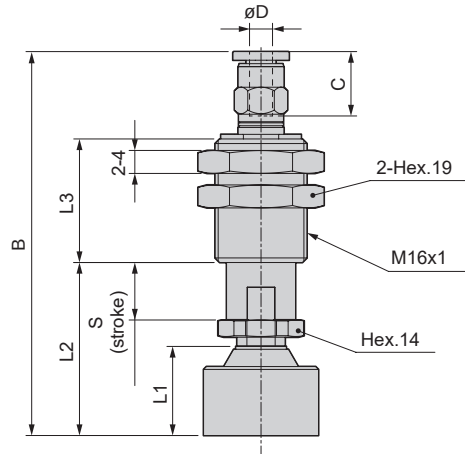
Thin object

Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC35, 50-□S*-2/4/6

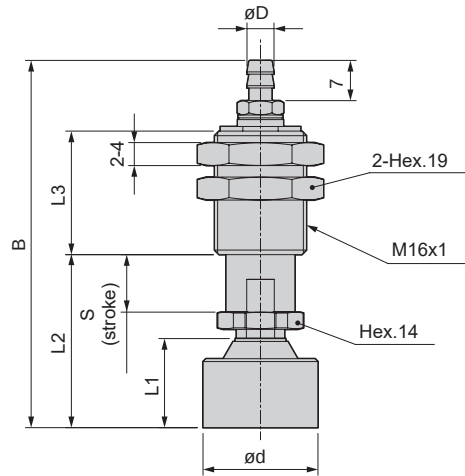


Unit: mm

	Model No.	Pad diameter ØD	Bore size ØD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC35-10S*-2	35	1.8	75.2	28	42.6	21.5	8.4	10	1.0 to 2.4	59
Sponge	VSP-HC35-10S*-4		4	79.3				11.2			60
	VSP-HC35-10S*-6		6	80.6				11.9			61
Bellows	VSP-HC35-15S*-2		1.8	85.2		47.6	26.5	8.4	15	1.0 to 2.7	61
	VSP-HC35-15S*-4		4	89.3				11.2			62
	VSP-HC35-15S*-6		6	90.6				11.9			63
Multi-stage bellows	VSP-HC35-20S*-2		1.8	95.2		52.6	31.5	8.4	20	1.0 to 3.0	63
	VSP-HC35-20S*-4		4	99.3				11.2			64
	VSP-HC35-20S*-6		6	100.6				11.9			65
Oval	VSP-HC35-25S*-2		1.8	105.7		57.6	37	8.4	25	1.0 to 3.0	65
	VSP-HC35-25S*-4		4	109.8				11.2			66
	VSP-HC35-25S*-6		6	111.1				11.9			67
Soft	VSP-HC35-30S*-2		1.8	116.7		62.6	43	8.4	30	1.0 to 3.0	67
	VSP-HC35-30S*-4		4	120.8				11.2			68
	VSP-HC35-30S*-6		6	122.1				11.9			69
Soft bellows	VSP-HC35-40S*-2		1.8	138.7		72.6	55	8.4	40	1.0 to 3.0	71
	VSP-HC35-40S*-4		4	142.8				11.2			72
	VSP-HC35-40S*-6		6	144.1				11.9			73
Anti-slip	VSP-HC35-50S*-2		1.8	160.2		82.6	66.5	8.4	50	1.0 to 3.1	75
	VSP-HC35-50S*-4		4	164.3				11.2			76
	VSP-HC35-50S*-6		6	165.6				11.9			77
Thin object	VSP-HC50-10S*-2	50	1.8	75.2	28	42.6	21.5	8.4	10	1.0 to 2.4	100
Flat	VSP-HC50-10S*-4		4	79.3				11.2			101
	VSP-HC50-10S*-6		6	80.6				11.9			102
Suction mark prevention	VSP-HC50-15S*-2		1.8	85.2		47.6	26.5	8.4	15	1.0 to 2.7	102
	VSP-HC50-15S*-4		4	89.3				11.2			103
	VSP-HC50-15S*-6		6	90.6				11.9			104
	VSP-HC50-20S*-2		1.8	95.2		52.6	31.5	8.4	20	1.0 to 3.0	104
	VSP-HC50-20S*-4		4	99.3				11.2			105
	VSP-HC50-20S*-6		6	100.6				11.9			106
	VSP-HC50-25S*-2		1.8	105.7		57.6	37	8.4	25	1.0 to 3.0	106
	VSP-HC50-25S*-4		4	109.8				11.2			107
	VSP-HC50-25S*-6		6	111.1				11.9			108
	VSP-HC50-30S*-2		1.8	116.7		62.6	43	8.4	30	1.0 to 3.0	108
	VSP-HC50-30S*-4		4	120.8				11.2			109
	VSP-HC50-30S*-6		6	122.1				11.9			110
	VSP-HC50-40S*-2		1.8	138.7		72.6	55	8.4	40	1.0 to 3.0	112
	VSP-HC50-40S*-4		4	142.8				11.2			113
	VSP-HC50-40S*-6		6	144.1				11.9			114
	VSP-HC50-50S*-2		1.8	160.2		82.6	66.5	8.4	50	1.0 to 3.1	116
	VSP-HC50-50S*-4		4	164.3				11.2			117
	VSP-HC50-50S*-6		6	165.6				11.9			118

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC10, 15-□S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10S*-4T	10	2.5	56.3	9.5	22.5	21.5	10	1.0 to 2.4	22
VSP-HC10-10S*-6T		4							
VSP-HC10-15S*-4T		2.5	66.3		27.5	26.5	15	1.0 to 2.7	24
VSP-HC10-15S*-6T		4							
VSP-HC10-20S*-4T		2.5	76.3		32.5	31.5	20	1.0 to 3.0	26
VSP-HC10-20S*-6T		4							
VSP-HC10-25S*-4T		2.5	86.8		37.5	37	25	1.0 to 3.0	29
VSP-HC10-25S*-6T		4							
VSP-HC10-30S*-4T		2.5	97.8		42.5	43	30	1.0 to 3.0	31
VSP-HC10-30S*-6T		4							
VSP-HC10-40S*-4T		2.5	119.8		52.5	55	40	1.0 to 3.0	35
VSP-HC10-40S*-6T		4							
VSP-HC10-50S*-4T		2.5	141.3		62.5	66.5	50	1.0 to 3.1	39
VSP-HC10-50S*-6T		4							
VSP-HC15-10S*-4T	15	2.5	56.3	9.5	22.5	21.5	10	1.0 to 2.4	22
VSP-HC15-10S*-6T		4							
VSP-HC15-15S*-4T		2.5	66.3		27.5	26.5	15	1.0 to 2.7	24
VSP-HC15-15S*-6T		4							
VSP-HC15-20S*-4T		2.5	76.3		32.5	31.5	20	1.0 to 3.0	26
VSP-HC15-20S*-6T		4							
VSP-HC15-25S*-4T		2.5	86.8		37.5	37	25	1.0 to 3.0	29
VSP-HC15-25S*-6T		4							
VSP-HC15-30S*-4T		2.5	97.8		42.5	43	30	1.0 to 3.0	31
VSP-HC15-30S*-6T		4							
VSP-HC15-40S*-4T		2.5	119.8		52.5	55	40	1.0 to 3.0	35
VSP-HC15-40S*-6T		4							
VSP-HC15-50S*-4T		2.5	141.3		62.5	66.5	50	1.0 to 3.1	39
VSP-HC15-50S*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

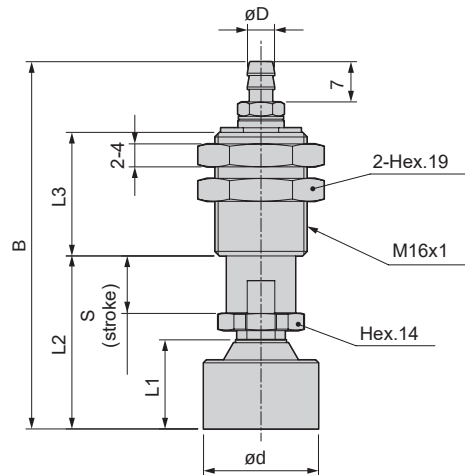
Thin object

Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC20 to 30-□S*-4T/6T

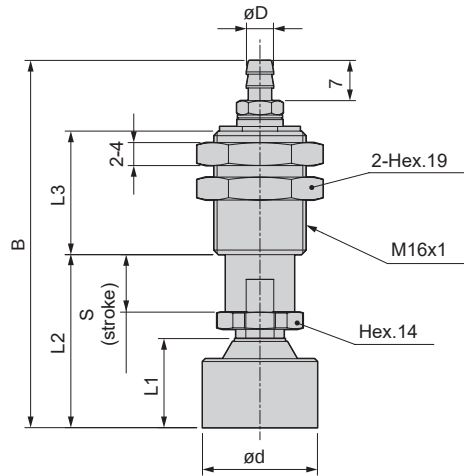


Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
General/Deep/Compact	VSP-HC20-10S*-4T	20	2.5	63.9	15.5	30.1	21.5	10	1.0 to 2.4	26
	VSP-HC20-10S*-6T		4							
Sponge	VSP-HC20-15S*-4T		2.5							
	VSP-HC20-15S*-6T		4							
	VSP-HC20-20S*-4T		2.5							
	VSP-HC20-20S*-6T		4							
Bel lows	VSP-HC20-25S*-4T		2.5							
	VSP-HC20-25S*-6T		4							
Multi-stage bellows	VSP-HC20-30S*-4T		2.5							
	VSP-HC20-30S*-6T		4							
	VSP-HC20-40S*-4T		2.5							
	VSP-HC20-40S*-6T		4							
Oval	VSP-HC20-50S*-4T		2.5							
	VSP-HC20-50S*-6T		4							
Soft bellows	VSP-HC25-10S*-4T	25	2.5	63.9	15.5	30.1	21.5	10	1.0 to 2.4	27
	VSP-HC25-10S*-6T		4							
	VSP-HC25-15S*-4T		2.5							
	VSP-HC25-15S*-6T		4							
	VSP-HC25-20S*-4T		2.5							
	VSP-HC25-20S*-6T		4							
	VSP-HC25-25S*-4T		2.5							
	VSP-HC25-25S*-6T		4							
	VSP-HC25-30S*-4T		2.5							
	VSP-HC25-30S*-6T		4							
	VSP-HC25-40S*-4T		2.5							
	VSP-HC25-40S*-6T		4							
Anti-slip	VSP-HC25-50S*-4T		2.5							
	VSP-HC25-50S*-6T		4							
Thin object	VSP-HC30-10S*-4T	30	2.5	63.9	15.5	30.1	21.5	10	1.0 to 2.4	28
	VSP-HC30-10S*-6T		4							
Flat	VSP-HC30-15S*-4T		2.5							
	VSP-HC30-15S*-6T		4							
Suction mark prevention	VSP-HC30-20S*-4T		2.5							
	VSP-HC30-20S*-6T		4							
	VSP-HC30-25S*-4T		2.5							
	VSP-HC30-25S*-6T		4							
	VSP-HC30-30S*-4T		2.5							
	VSP-HC30-30S*-6T		4							
	VSP-HC30-40S*-4T		2.5							
	VSP-HC30-40S*-6T		4							
	VSP-HC30-50S*-4T		2.5							
	VSP-HC30-50S*-6T		4							

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC35, 50-□S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC35-10S*-4T	35	2.5	76.4	28	42.6	21.5	10	1.0 to 2.4	47
VSP-HC35-10S*-6T		4							
VSP-HC35-15S*-4T		2.5	86.4		47.6	26.5	15	1.0 to 2.7	49
VSP-HC35-15S*-6T		4							
VSP-HC35-20S*-4T		2.5	96.4		52.6	31.5	20	1.0 to 3.0	52
VSP-HC35-20S*-6T		4							
VSP-HC35-25S*-4T		2.5	106.9		57.6	37	25	1.0 to 3.0	54
VSP-HC35-25S*-6T		4							
VSP-HC35-30S*-4T		2.5	117.9		62.6	43	30	1.0 to 3.0	57
VSP-HC35-30S*-6T		4							
VSP-HC35-40S*-4T		2.5	139.9		72.6	55	40	1.0 to 3.0	61
VSP-HC35-40S*-6T		4							
VSP-HC35-50S*-4T		2.5	161.4		82.6	66.5	50	1.0 to 3.1	66
VSP-HC35-50S*-6T		4							
VSP-HC50-10S*-4T	50	2.5	76.4	28	42.6	21.5	10	1.0 to 2.4	88
VSP-HC50-10S*-6T		4							
VSP-HC50-15S*-4T		2.5	86.4		47.6	26.5	15	1.0 to 2.7	90
VSP-HC50-15S*-6T		4							
VSP-HC50-20S*-4T		2.5	96.4		52.6	31.5	20	1.0 to 3.0	92
VSP-HC50-20S*-6T		4							
VSP-HC50-25S*-4T		2.5	106.9		57.6	37	25	1.0 to 3.0	94
VSP-HC50-25S*-6T		4							
VSP-HC50-30S*-4T		2.5	117.9		62.6	43	30	1.0 to 3.0	97
VSP-HC50-30S*-6T		4							
VSP-HC50-40S*-4T		2.5	139.9		72.6	55	40	1.0 to 3.0	101
VSP-HC50-40S*-6T		4							
VSP-HC50-50S*-4T		2.5	161.4		82.6	66.5	50	1.0 to 3.1	106
VSP-HC50-50S*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

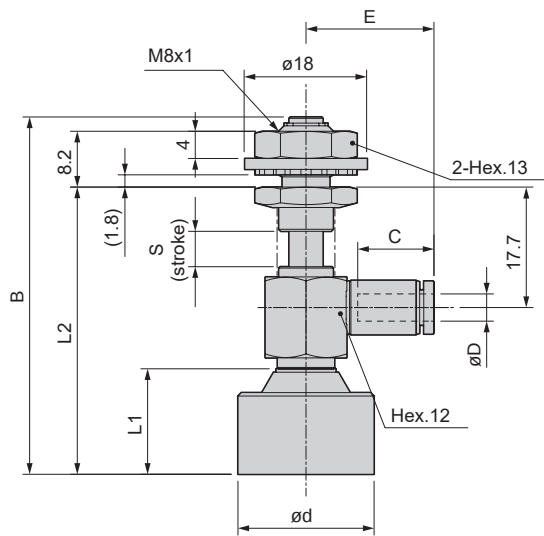
Thin object

Flat

Suction mark
prevention

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, push-in fitting)

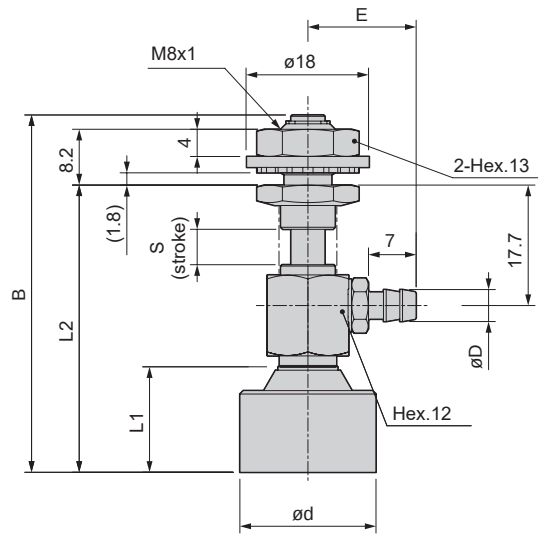
●VSP-HD10 to 50S*-2/4/6



Unit: mm										
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10S*-2	10	1.8	46.5	9.5	36.2	8.4	14.7	5.2	1.6 to 2.9	35
VSP-HD10S*-4		4				11.2	18.8			36
VSP-HD10S*-6		6				11.9	20.6			37
VSP-HD15S*-2	15	1.8	46.5	9.5	36.2	8.4	14.7	5.2	1.6 to 2.9	35
VSP-HD15S*-4		4				11.2	18.8			36
VSP-HD15S*-6		6				11.9	20.6			37
VSP-HD20S*-2	20	1.8	52.5	15.5	42.2	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HD20S*-4		4				11.2	18.8			38
VSP-HD20S*-6		6				11.9	20.6			39
VSP-HD25S*-2	25	1.8	52.5	15.5	42.2	8.4	14.7	5.2	1.6 to 2.9	38
VSP-HD25S*-4		4				11.2	18.8			39
VSP-HD25S*-6		6				11.9	20.6			40
VSP-HD30S*-2	30	1.8	52.5	15.5	42.2	8.4	14.7	5.2	1.6 to 2.9	39
VSP-HD30S*-4		4				11.2	18.8			40
VSP-HD30S*-6		6				11.9	20.6			41
VSP-HD35S*-2	35	1.8	65	28	54.7	8.4	14.7	5.2	1.6 to 2.9	68
VSP-HD35S*-4		4				11.2	18.8			69
VSP-HD35S*-6		6				11.9	20.6			70
VSP-HD50S*-2	50	1.8	65	28	54.7	8.4	14.7	5.2	1.6 to 2.9	109
VSP-HD50S*-4		4				11.2	18.8			110
VSP-HD50S*-6		6				11.9	20.6			112

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, barbed fitting)

●VSP-HD10 to 50S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-HD10S*-4T	10	1.8	46.5	9.5	36.2	5.2	1.6 to 2.9	35
VSP-HD10S*-6T		4						
VSP-HD15S*-4T	15	1.8	46.5	9.5	36.2	5.2	1.6 to 2.9	35
VSP-HD15S*-6T		4						
VSP-HD20S*-4T	20	1.8	52.5	15.5	42.2	5.2	1.6 to 2.9	37
VSP-HD20S*-6T		4						
VSP-HD25S*-4T	25	1.8	52.5	15.5	42.2	5.2	1.6 to 2.9	38
VSP-HD25S*-6T		4						
VSP-HD30S*-4T	30	1.8	52.5	15.5	42.2	5.2	1.6 to 2.9	39
VSP-HD30S*-6T		4						
VSP-HD35S*-4T	35	1.8	65	28	54.7	5.2	1.6 to 2.9	68
VSP-HD35S*-6T		4						
VSP-HD50S*-4T	50	1.8	65	28	54.7	5.2	1.6 to 2.9	119
VSP-HD50S*-6T		4						

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

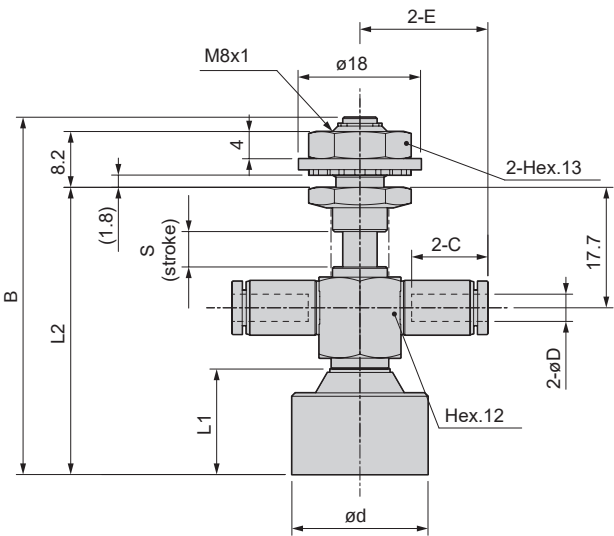
Thin object

Flat

Suction mark
prevention

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, push-in fitting)

●VSP-HDW10 to 50S*-2/4/6

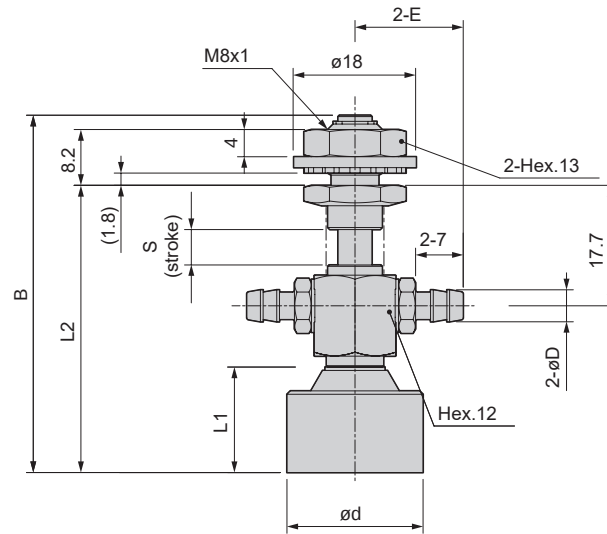


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10S*-2	10	1.8	46.5	9.5	36.2	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HDW10S*-4		4				11.2	18.8			39
VSP-HDW10S*-6		6				11.9	20.6			41
VSP-HDW15S*-2	15	1.8	46.5	9.5	36.2	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HDW15S*-4		4				11.2	18.8			39
VSP-HDW15S*-6		6				11.9	20.6			41
VSP-HDW20S*-2	20	1.8	52.5	15.5	42.2	8.4	14.7	5.2	1.6 to 2.9	39
VSP-HDW20S*-4		4				11.2	18.8			41
VSP-HDW20S*-6		6				11.9	20.6			43
VSP-HDW25S*-2	25	1.8	52.5	15.5	42.2	8.4	14.7	5.2	1.6 to 2.9	40
VSP-HDW25S*-4		4				11.2	18.8			42
VSP-HDW25S*-6		6				11.9	20.6			44
VSP-HDW30S*-2	30	1.8	52.5	15.5	42.2	8.4	14.7	5.2	1.6 to 2.9	41
VSP-HDW30S*-4		4				11.2	18.8			43
VSP-HDW30S*-6		6				11.9	20.6			45
VSP-HDW35S*-2	35	1.8	65	28	54.7	8.4	14.7	5.2	1.6 to 2.9	70
VSP-HDW35S*-4		4				11.2	18.8			72
VSP-HDW35S*-6		6				11.9	20.6			74
VSP-HDW50S*-2	50	1.8	65	28	54.7	8.4	14.7	5.2	1.6 to 2.9	111
VSP-HDW50S*-4		4				11.2	18.8			113
VSP-HDW50S*-6		6				11.9	20.6			115

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, barbed fitting)

●VSP-HDW10 to 50S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10S*-4T	10	1.8	46.5	9.5	36.2	5.2	1.6 to 2.9	36
VSP-HDW10S*-6T		4						
VSP-HDW15S*-4T	15	1.8	46.5	9.5	36.2	5.2	1.6 to 2.9	36
VSP-HDW15S*-6T		4						
VSP-HDW20S*-4T	20	1.8	52.5	15.5	42.2	5.2	1.6 to 2.9	38
VSP-HDW20S*-6T		4						
VSP-HDW25S*-4T	25	1.8	52.5	15.5	42.2	5.2	1.6 to 2.9	38
VSP-HDW25S*-6T		4						
VSP-HDW30S*-4T	30	1.8	52.5	15.5	42.2	5.2	1.6 to 2.9	39
VSP-HDW30S*-6T		4						
VSP-HDW35S*-4T	35	1.8	65	28	54.7	5.2	1.6 to 2.9	71
VSP-HDW35S*-6T		4						
VSP-HDW50S*-4T	50	1.8	65	28	54.7	5.2	1.6 to 2.9	112
VSP-HDW50S*-6T		4						

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

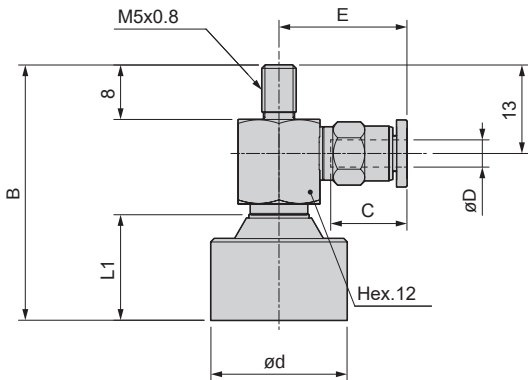
Thin object

Flat

Suction mark
prevention

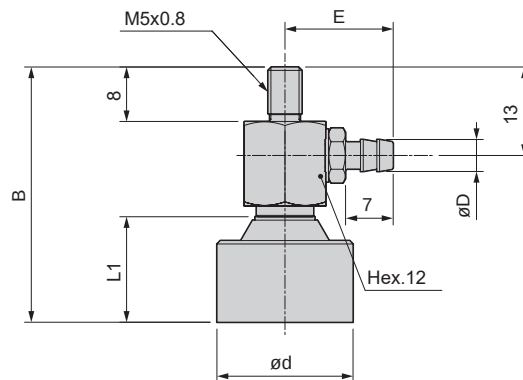
Dimensions (low back, fixed, vacuum outlet, side, VSP-HE, push-in fitting)

●VSP-HE10 to 50S*-2/4/6



Unit: mm							
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE10S*-2	10	1.8	31.5	9.5	8.4	14.7	21
VSP-HE10S*-4		4			11.2	18.8	22
VSP-HE10S*-6		6			11.9	20.6	23
VSP-HE15S*-2	15	1.8	31.5	9.5	8.4	14.7	21
VSP-HE15S*-4		4			11.2	18.8	22
VSP-HE15S*-6		6			11.9	20.6	23
VSP-HE20S*-2	20	1.8	37.5	15.5	8.4	14.7	23
VSP-HE20S*-4		4			11.2	18.8	24
VSP-HE20S*-6		6			11.9	20.6	25
VSP-HE25S*-2	25	1.8	37.5	15.5	8.4	14.7	24
VSP-HE25S*-4		4			11.2	18.8	25
VSP-HE25S*-6		6			11.9	20.6	26
VSP-HE30S*-2	30	1.8	37.5	15.5	8.4	14.7	25
VSP-HE30S*-4		4			11.2	18.8	26
VSP-HE30S*-6		6			11.9	20.6	27
VSP-HE35S*-2	35	1.8	50	28	8.4	14.7	54
VSP-HE35S*-4		4			11.2	18.8	55
VSP-HE35S*-6		6			11.9	20.6	56
VSP-HE50S*-2	50	1.8	50	28	8.4	14.7	95
VSP-HE50S*-4		4			11.2	18.8	96
VSP-HE50S*-6		6			11.9	20.6	97

●VSP-HE10 to 50S*-4T/6T



Unit: mm					
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-HE10S*-4T	10	1.8	31.5	9.5	16
VSP-HE10S*-6T		4			
VSP-HE15S*-4T	15	1.8	31.5	9.5	16
VSP-HE15S*-6T		4			
VSP-HE20S*-4T	20	1.8	37.5	15.5	22
VSP-HE20S*-6T		4			
VSP-HE25S*-4T	25	1.8	37.5	15.5	23
VSP-HE25S*-6T		4			
VSP-HE30S*-4T	30	1.8	37.5	15.5	24
VSP-HE30S*-6T		4			
VSP-HE35S*-4T	35	1.8	50	28	53
VSP-HE35S*-6T		4			
VSP-HE50S*-4T	50	1.8	50	28	94
VSP-HE50S*-6T		4			

Suction pad

General/De

Sponge

Bellows

Multi-stage

Oval

Soft

Soft

Anti-slip

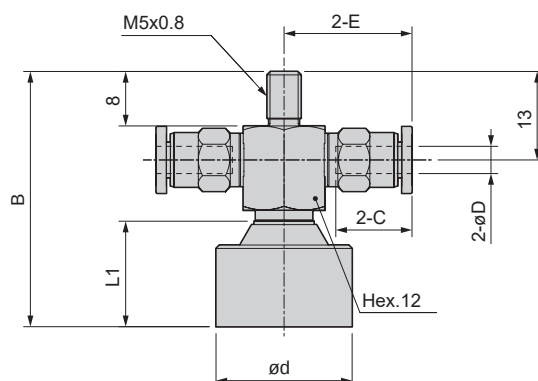
Thin object

Flat

Suction mark

Dimensions (low back, fixed, vacuum outlet, both sides, VSP-HEW, push-in fitting)

●VSP-HEW10 to 50S*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW10S*-2	10	1.8	31.5	9.5	8.4	14.7	15
VSP-HEW10S*-4		4			11.2	18.8	17
VSP-HEW10S*-6		6			11.9	20.6	19
VSP-HEW15S*-2	15	1.8	31.5	9.5	8.4	14.7	15
VSP-HEW15S*-4		4			11.2	18.8	17
VSP-HEW15S*-6		6			11.9	20.6	19
VSP-HEW20S*-2	20	1.8	37.5	15.5	8.4	14.7	17
VSP-HEW20S*-4		4			11.2	18.8	19
VSP-HEW20S*-6		6			11.9	20.6	21
VSP-HEW25S*-2	25	1.8	37.5	15.5	8.4	14.7	18
VSP-HEW25S*-4		4			11.2	18.8	20
VSP-HEW25S*-6		6			11.9	20.6	22
VSP-HEW30S*-2	30	1.8	37.5	15.5	8.4	14.7	19
VSP-HEW30S*-4		4			11.2	18.8	21
VSP-HEW30S*-6		6			11.9	20.6	23
VSP-HEW35S*-2	35	1.8	50	28	8.4	14.7	48
VSP-HEW35S*-4		4			11.2	18.8	50
VSP-HEW35S*-6		6			11.9	20.6	52
VSP-HEW50S*-2	50	1.8	50	28	8.4	14.7	89
VSP-HEW50S*-4		4			11.2	18.8	91
VSP-HEW50S*-6		6			11.9	20.6	93

●VSP-HEW10 to 50S*-4T/6T

General/Deep/

Sponge

Bellows

Multi-stage

Oval

Soft

Soft

Anti-slip

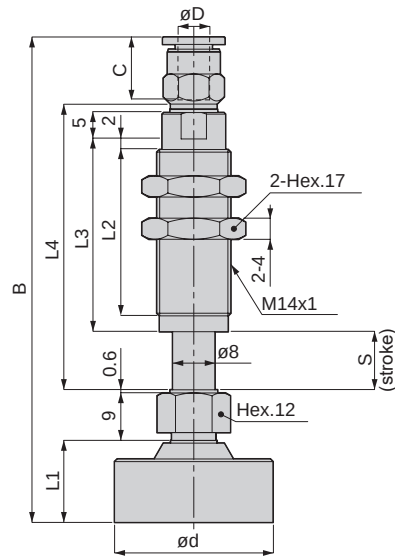
Thin object

Flat

Suction mark

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC10 to 30-□S*-4/6



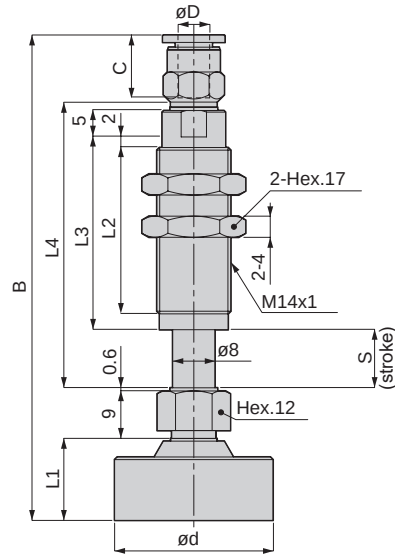
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
Suction pad	VSP-LFC10-5S*-4	10	4	74.6	9.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	53
	VSP-LFC10-5S*-6		6	75.9					11.9			54
	VSP-LFC10-10S*-4		4	84.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	55
	VSP-LFC10-10S*-6		6	85.9					11.9			56
	VSP-LFC10-15S*-4		4	94.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	58
	VSP-LFC10-15S*-6		6	95.9					11.9			59
	VSP-LFC10-20S*-4		4	104.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	61
	VSP-LFC10-20S*-6		6	105.9					11.9			62
General/Deep/Compact	VSP-LFC15-5S*-4	15	4	74.6	9.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	54
	VSP-LFC15-5S*-6		6	75.9					11.9			55
	VSP-LFC15-10S*-4		4	84.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	56
	VSP-LFC15-10S*-6		6	85.9					11.9			57
	VSP-LFC15-15S*-4		4	94.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	59
	VSP-LFC15-15S*-6		6	95.9					11.9			60
	VSP-LFC15-20S*-4		4	104.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	62
	VSP-LFC15-20S*-6		6	105.9					11.9			63
Sponge	VSP-LFC20-5S*-4	20	4	80.6	15.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	55
	VSP-LFC20-5S*-6		6	81.9					11.9			56
	VSP-LFC20-10S*-4		4	90.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	57
	VSP-LFC20-10S*-6		6	91.9					11.9			58
	VSP-LFC20-15S*-4		4	100.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	60
	VSP-LFC20-15S*-6		6	101.9					11.9			61
	VSP-LFC20-20S*-4		4	110.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	63
	VSP-LFC20-20S*-6		6	111.9					11.9			64
Multi-stage bellows	VSP-LFC25-5S*-4	25	4	80.6	15.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	56
	VSP-LFC25-5S*-6		6	81.9					11.9			57
	VSP-LFC25-10S*-4		4	90.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	58
	VSP-LFC25-10S*-6		6	91.9					11.9			59
	VSP-LFC25-15S*-4		4	100.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	61
	VSP-LFC25-15S*-6		6	101.9					11.9			62
	VSP-LFC25-20S*-4		4	110.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	64
	VSP-LFC25-20S*-6		6	111.9					11.9			65
Soft bellows	VSP-LFC30-5S*-4	30	4	80.6	15.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
	VSP-LFC30-5S*-6		6	81.9					11.9			58
	VSP-LFC30-10S*-4		4	90.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	59
	VSP-LFC30-10S*-6		6	91.9					11.9			60
	VSP-LFC30-15S*-4		4	100.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
	VSP-LFC30-15S*-6		6	101.9					11.9			63
	VSP-LFC30-20S*-4		4	110.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65
	VSP-LFC30-20S*-6		6	111.9					11.9			66
Thin object	VSP-LFC30-5S*-4	30	4	80.6	15.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
	VSP-LFC30-5S*-6		6	81.9					11.9			58
	VSP-LFC30-10S*-4		4	90.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	59
	VSP-LFC30-10S*-6		6	91.9					11.9			60
	VSP-LFC30-15S*-4		4	100.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
	VSP-LFC30-15S*-6		6	101.9					11.9			63
	VSP-LFC30-20S*-4		4	110.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65
	VSP-LFC30-20S*-6		6	111.9					11.9			66
Flat	VSP-LFC30-5S*-4	30	4	80.6	15.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
	VSP-LFC30-5S*-6		6	81.9					11.9			58
	VSP-LFC30-10S*-4		4	90.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	59
	VSP-LFC30-10S*-6		6	91.9					11.9			60
	VSP-LFC30-15S*-4		4	100.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
	VSP-LFC30-15S*-6		6	101.9					11.9			63
	VSP-LFC30-20S*-4		4	110.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65
	VSP-LFC30-20S*-6		6	111.9					11.9			66
Suction mark prevention	VSP-LFC30-5S*-4	30	4	80.6	15.5	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
	VSP-LFC30-5S*-6		6	81.9					11.9			58
	VSP-LFC30-10S*-4		4	90.6		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	59
	VSP-LFC30-10S*-6		6	91.9					11.9			60
	VSP-LFC30-15S*-4		4	100.6		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
	VSP-LFC30-15S*-6		6	101.9					11.9			63
	VSP-LFC30-20S*-4		4	110.6		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65
	VSP-LFC30-20S*-6		6	111.9					11.9			66

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

● VSP-LFC35, 50-□S*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC35-5S*-4	35	4	93.1	28	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	86
VSP-LFC35-5S*-6		6	94.4					11.9			87
VSP-LFC35-10S*-4		4	103.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	88
VSP-LFC35-10S*-6		6	104.4					11.9			89
VSP-LFC35-15S*-4		4	113.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	91
VSP-LFC35-15S*-6		6	114.4					11.9			92
VSP-LFC35-20S*-4		4	123.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	94
VSP-LFC35-20S*-6		6	124.4					11.9			95
VSP-LFC50-5S*-4	50	4	93.1	28	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	127
VSP-LFC50-5S*-6		6	94.4					11.9			128
VSP-LFC50-10S*-4		4	103.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	129
VSP-LFC50-10S*-6		6	104.4					11.9			130
VSP-LFC50-15S*-4		4	113.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	132
VSP-LFC50-15S*-6		6	114.4					11.9			133
VSP-LFC50-20S*-4		4	123.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	135
VSP-LFC50-20S*-6		6	124.4					11.9			136

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

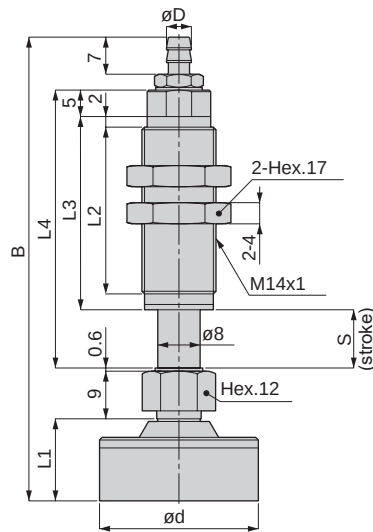
Thin object

Flat

Suction mark
prevention

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC10 to 30-□S*-4T/6T



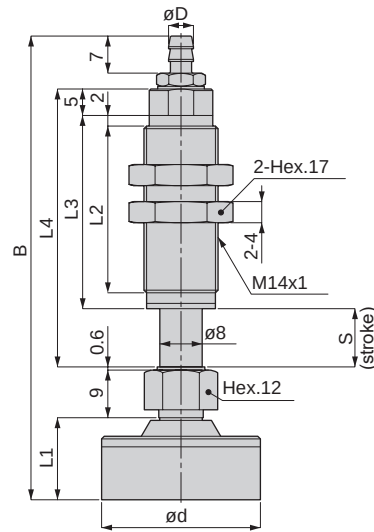
Unit: mm

Unit: mm																	
Sponge	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)						
Bellows	VSP-LFC10-5S*-4T	10	2.5	71.7	9.5	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	48						
	4																
	VSP-LFC10-5S*-6T		2.5	81.7		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	50						
	VSP-LFC10-10S*-4T		4														
Multi-stage bellows	VSP-LFC10-10S*-6T		2.5	91.7		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	53						
	VSP-LFC10-15S*-4T		4														
	VSP-LFC10-15S*-6T		2.5	101.7		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	56						
	VSP-LFC10-20S*-4T		4														
Oval	VSP-LFC10-20S*-6T	15	2.5	9.5	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	49							
	VSP-LFC15-5S*-4T		4														
	VSP-LFC15-5S*-6T		2.5								81.7	31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	51
	VSP-LFC15-10S*-4T		4														
Soft	VSP-LFC15-10S*-6T		2.5								91.7	36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	54
	VSP-LFC15-15S*-4T		4														
	VSP-LFC15-15S*-6T		2.5								101.7	41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	57
	VSP-LFC15-20S*-4T		4														
Soft bellows	VSP-LFC15-20S*-6T	20	2.5	15.5	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	50							
	VSP-LFC20-5S*-4T		4														
	VSP-LFC20-5S*-6T		2.5								87.7	31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	52
	VSP-LFC20-10S*-4T		4														
Anti-slip	VSP-LFC20-10S*-6T		2.5								97.7	36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	55
	VSP-LFC20-15S*-4T		4														
	VSP-LFC20-15S*-6T		2.5								107.7	41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	58
	VSP-LFC20-20S*-4T		4														
Thin object	VSP-LFC20-20S*-6T	25	2.5	15.5	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	51							
	VSP-LFC25-5S*-4T		4														
	VSP-LFC25-5S*-6T		2.5								87.7	31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	53
	VSP-LFC25-10S*-4T		4														
Flat	VSP-LFC25-10S*-6T		2.5								97.7	36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	56
	VSP-LFC25-15S*-4T		4														
	VSP-LFC25-15S*-6T		2.5								107.7	41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	59
	VSP-LFC25-20S*-4T		4														
Suction mark prevention	VSP-LFC25-20S*-6T	30	2.5	15.5	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	52							
	VSP-LFC30-5S*-4T		4														
	VSP-LFC30-5S*-6T		2.5								87.7	31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	54
	VSP-LFC30-10S*-4T		4														
	VSP-LFC30-10S*-6T		2.5								97.7	36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	57
	VSP-LFC30-15S*-4T		4														
	VSP-LFC30-15S*-6T		2.5								107.7	41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	60
	VSP-LFC30-20S*-4T		4														
VSP-LFC30-20S*-6T																	

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC35, 50-□S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC35-5S*-4T	35	2.5	90.2	28	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	81
VSP-LFC35-5S*-6T		4								
VSP-LFC35-10S*-4T		2.5	100.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	83
VSP-LFC35-10S*-6T		4								
VSP-LFC35-15S*-4T		2.5	110.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	86
VSP-LFC35-15S*-6T		4								
VSP-LFC35-20S*-4T		2.5	120.1		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	89
VSP-LFC35-20S*-6T		4								
VSP-LFC50-5S*-4T	50	2.5	90.2	28	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	122
VSP-LFC50-5S*-6T		4								
VSP-LFC50-10S*-4T		2.5	100.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	124
VSP-LFC50-10S*-6T		4								
VSP-LFC50-15S*-4T		2.5	110.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	127
VSP-LFC50-15S*-6T		4								
VSP-LFC50-20S*-4T		2.5	120.1		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	130
VSP-LFC50-20S*-6T		4								

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

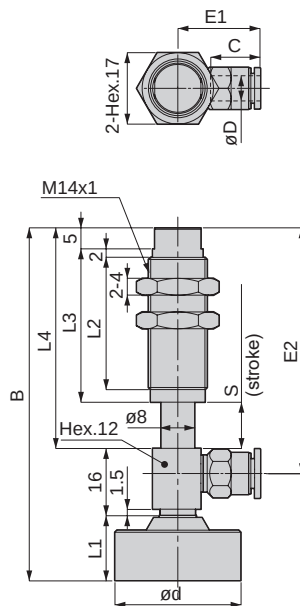
Thin object

Flat

Suction mark
prevention

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD10 to 30-□S*-4/6

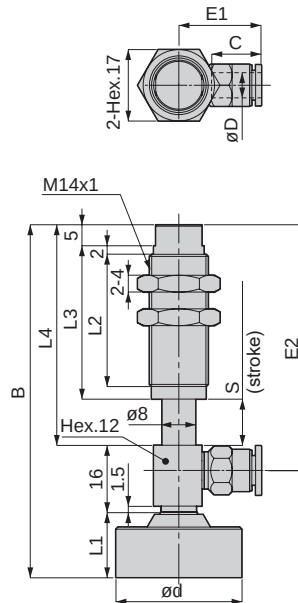


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5S*-4	10	4	68	9.5	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	54
VSP-LFD10-5S*-6		6						11.9	19.7				55
VSP-LFD10-10S*-4		4	78		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	58
VSP-LFD10-10S*-6		6						11.9	19.7				59
VSP-LFD10-15S*-4		4	88		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	62
VSP-LFD10-15S*-6		6						11.9	19.7				63
VSP-LFD10-20S*-4		4	98		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	66
VSP-LFD10-20S*-6		6						11.9	19.7				67
VSP-LFD15-5S*-4	15	4	68	9.5	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	55
VSP-LFD15-5S*-6		6						11.9	19.7				56
VSP-LFD15-10S*-4		4	78		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	59
VSP-LFD15-10S*-6		6						11.9	19.7				60
VSP-LFD15-15S*-4		4	88		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	63
VSP-LFD15-15S*-6		6						11.9	19.7				64
VSP-LFD15-20S*-4		4	98		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	67
VSP-LFD15-20S*-6		6						11.9	19.7				68
VSP-LFD20-5S*-4	20	4	74	15.5	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	56
VSP-LFD20-5S*-6		6						11.9	19.7				57
VSP-LFD20-10S*-4		4	84		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	60
VSP-LFD20-10S*-6		6						11.9	19.7				61
VSP-LFD20-15S*-4		4	94		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	64
VSP-LFD20-15S*-6		6						11.9	19.7				65
VSP-LFD20-20S*-4		4	104		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	68
VSP-LFD20-20S*-6		6						11.9	19.7				69
VSP-LFD25-5S*-4	25	4	74	15.5	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	57
VSP-LFD25-5S*-6		6						11.9	19.7				58
VSP-LFD25-10S*-4		4	84		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	61
VSP-LFD25-10S*-6		6						11.9	19.7				62
VSP-LFD25-15S*-4		4	94		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	65
VSP-LFD25-15S*-6		6						11.9	19.7				66
VSP-LFD25-20S*-4		4	104		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	69
VSP-LFD25-20S*-6		6						11.9	19.7				70
VSP-LFD30-5S*-4	30	4	74	15.5	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	58
VSP-LFD30-5S*-6		6						11.9	19.7				59
VSP-LFD30-10S*-4		4	84		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	62
VSP-LFD30-10S*-6		6						11.9	19.7				63
VSP-LFD30-15S*-4		4	94		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	66
VSP-LFD30-15S*-6		6						11.9	19.7				67
VSP-LFD30-20S*-4		4	104		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	70
VSP-LFD30-20S*-6		6						11.9	19.7				71

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

● VSP-LFD35, 50-□S*-4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD35-5S*-4	35	4	86.5	28	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	87
VSP-LFD35-5S*-6		6						11.9	19.7				88
VSP-LFD35-10S*-4		4	96.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	91
VSP-LFD35-10S*-6		6						11.9	19.7				92
VSP-LFD35-15S*-4		4	106.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	95
VSP-LFD35-15S*-6		6						11.9	19.7				96
VSP-LFD35-20S*-4		4	116.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	99
VSP-LFD35-20S*-6		6						11.9	19.7				100
VSP-LFD50-5S*-4	50	4	86.5	28	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	128
VSP-LFD50-5S*-6		6						11.9	19.7				129
VSP-LFD50-10S*-4		4	96.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	132
VSP-LFD50-10S*-6		6						11.9	19.7				133
VSP-LFD50-15S*-4		4	106.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	136
VSP-LFD50-15S*-6		6						11.9	19.7				137
VSP-LFD50-20S*-4		4	116.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	140
VSP-LFD50-20S*-6		6						11.9	19.7				141

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

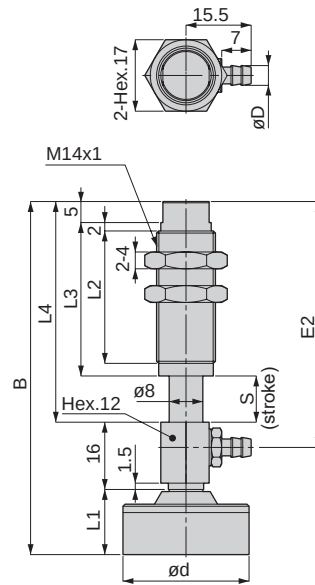
Thin object

Flat

Suction mark
prevention

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD10 to 30-□S*-4T/6T

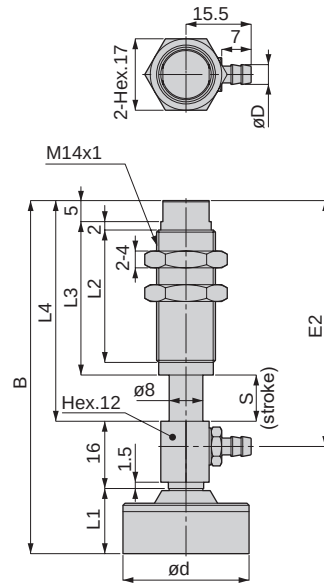


Unit: mm

Sponges	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E2	Stroke S	Spring force (N)	Weight (g)								
Bellows	VSP-LFD10-5S*-4T	10	2.5	68	9.5	26.5	31.5	42.5	48.5	5	4.5 to 6.5	50								
	4																			
	VSP-LFD10-5S*-6T		2.5	78		31.5	36.5	52.5	58.5	10	4.5 to 8.2	53								
VSP-LFD10-10S*-4T	4																			
Multi-stage bellows	VSP-LFD10-10S*-6T		2.5	88		36.5	41.5	62.5	68.5	15	4.5 to 9.9	57								
	VSP-LFD10-15S*-4T		4																	
	VSP-LFD10-15S*-6T		2.5										98	41.5	46.5	72.5	78.5	20	4.5 to 14.9	61
	VSP-LFD10-20S*-4T		4																	
Oval	VSP-LFD10-20S*-6T	2.5	15	68	9.5	26.5	31.5	42.5	48.5	5	4.5 to 6.5	51								
	VSP-LFD15-5S*-4T	4																		
Soft	VSP-LFD15-5S*-6T	2.5		78		31.5	36.5	52.5	58.5	10	4.5 to 8.2	54								
	VSP-LFD15-10S*-4T	4																		
	VSP-LFD15-10S*-6T	2.5		88		36.5	41.5	62.5	68.5	15	4.5 to 9.9	58								
	VSP-LFD15-15S*-4T	4																		
	Soft bellows	VSP-LFD15-15S*-6T		2.5		98	41.5	46.5	72.5	78.5	20	4.5 to 14.9	62							
		VSP-LFD15-20S*-4T		4																
Anti-slip	VSP-LFD15-20S*-6T	2.5	20	74	15.5	26.5	31.5	42.5	48.5	5	4.5 to 6.5	52								
	VSP-LFD20-5S*-4T	4																		
	VSP-LFD20-5S*-6T	2.5		84		31.5	36.5	52.5	58.5	10	4.5 to 8.2	55								
	VSP-LFD20-10S*-4T	4																		
	VSP-LFD20-10S*-6T	2.5		94		36.5	41.5	62.5	68.5	15	4.5 to 9.9	59								
	VSP-LFD20-15S*-4T	4																		
	Thin object	VSP-LFD20-15S*-6T		2.5		104	41.5	46.5	72.5	78.5	20	4.5 to 14.9	63							
VSP-LFD20-20S*-4T		4																		
Flat	VSP-LFD20-20S*-6T	2.5	25	74	15.5	26.5	31.5	42.5	48.5	5	4.5 to 6.5	53								
	VSP-LFD25-5S*-4T	4																		
	VSP-LFD25-5S*-6T	2.5		84		31.5	36.5	52.5	58.5	10	4.5 to 8.2	57								
	VSP-LFD25-10S*-4T	4																		
	VSP-LFD25-10S*-6T	2.5		94		36.5	41.5	62.5	68.5	15	4.5 to 9.9	60								
	VSP-LFD25-15S*-4T	4																		
Suction mark prevention	VSP-LFD25-15S*-6T	2.5		104		41.5	46.5	72.5	78.5	20	4.5 to 14.9	64								
	VSP-LFD25-20S*-4T	4																		
	Suction mark prevention	VSP-LFD25-20S*-6T	2.5	30	74	15.5	26.5	31.5	42.5	48.5	5	4.5 to 6.5	57							
		VSP-LFD30-5S*-4T	4																	
VSP-LFD30-5S*-6T		2.5	84		31.5		36.5	52.5	58.5	10	4.5 to 8.2	58								
VSP-LFD30-10S*-4T		4																		
VSP-LFD30-10S*-6T		2.5	94		36.5		41.5	62.5	68.5	15	4.5 to 9.9	61								
VSP-LFD30-15S*-4T		4																		
VSP-LFD30-15S*-6T		2.5	104		41.5		46.5	72.5	78.5	20	4.5 to 14.9	65								
VSP-LFD30-20S*-4T		4																		
VSP-LFD30-20S*-6T	2.5																			

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD35, 50-□S*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD35-5S*-4T	35	2.5	86.5	28	26.5	31.5	42.5	48.5	5	4.5 to 6.5	83
VSP-LFD35-5S*-6T		4									
VSP-LFD35-10S*-4T		2.5	96.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	87
VSP-LFD35-10S*-6T		4									
VSP-LFD35-15S*-4T		2.5	106.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	90
VSP-LFD35-15S*-6T		4									
VSP-LFD35-20S*-4T		2.5	116.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	94
VSP-LFD35-20S*-6T		4									
VSP-LFD50-5S*-4T	50	2.5	86.5	28	26.5	31.5	42.5	48.5	5	4.5 to 6.5	124
VSP-LFD50-5S*-6T		4									
VSP-LFD50-10S*-4T		2.5	96.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	128
VSP-LFD50-10S*-6T		4									
VSP-LFD50-15S*-4T		2.5	106.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	131
VSP-LFD50-15S*-6T		4									
VSP-LFD50-20S*-4T		2.5	116.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	135
VSP-LFD50-20S*-6T		4									

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

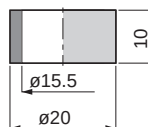
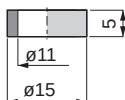
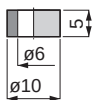
Thin object

Flat

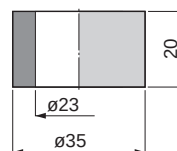
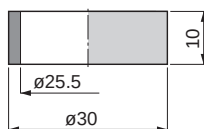
Suction mark
prevention

Dimensions: pad only

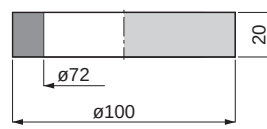
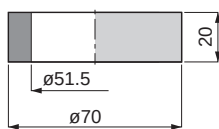
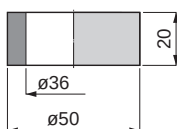
●VSPG-10S* Weight: 0.1g[0.2g] ●VSPG-15S* Weight: 0.2g[0.3g] ●VSPG-20S* Weight: 0.3g[0.8g]



●VSPG-25S* Weight: 0.4g[1.0g] ●VSPG-30S* Weight: 0.5g[1.4g] ●VSPG-35S* Weight: 2.1g[6.3g]



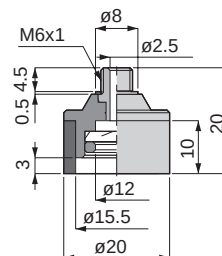
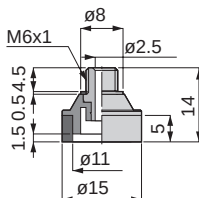
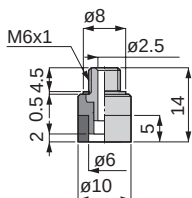
●VSPG-50S* Weight: 3.6g[11.0g] ●VSPG-70S* Weight: 6.3g[21.0g] ●VSPG-100S* Weight: 14.0g[42.0g]



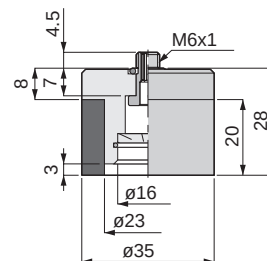
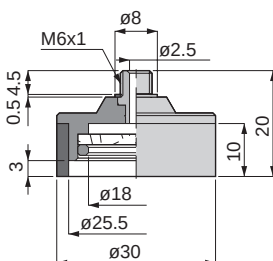
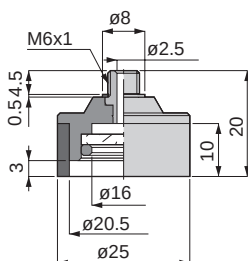
Note: Values in [] are for silicone rubber only.

Pad/Threaded set dimensions

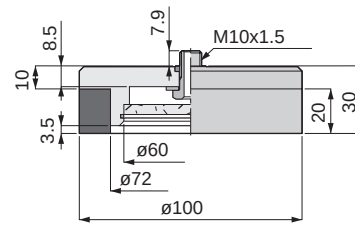
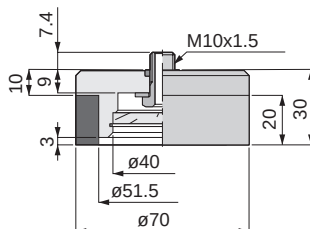
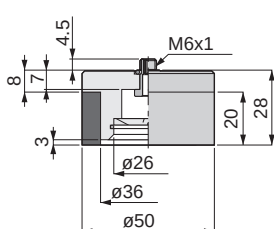
●VSPG-10S*A Weight: 1.9g[1.9g] ●VSPG-15S*A Weight: 2.1g[2.3g] ●VSPG-20S*A Weight: 3.9g[4.4g]



●VSPG-25S*A Weight: 5.2g [5.9g] ●VSPG-30S*A Weight: 6.2g [7.1g] ●VSPG-35S*A Weight: 35g [40g]



●VSPG-50S*A Weight: 76g [83g] ●VSPG-70S*A Weight: 142g [156g] ●VSPG-100S*A Weight: 272g [300g]



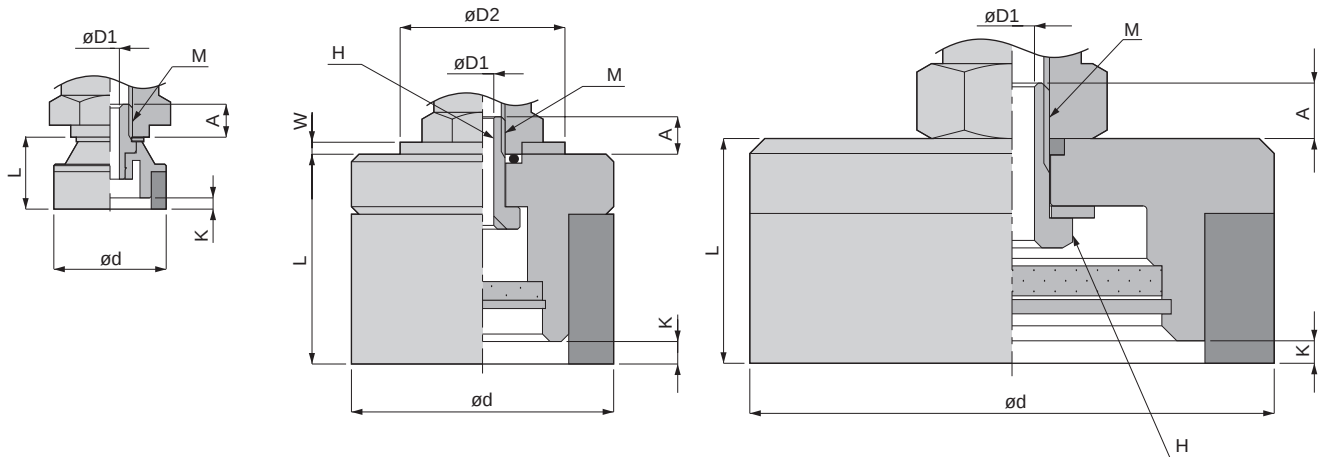
* Values in [] are for silicone rubber only.

Detailed view of pad and holder connection

● VSPG-10 to 30S*A

● VSPG-35, 50S*A

● VSPG-70, 100S*A



Unit: mm

Model No.	Pad diameter ød	L	Lip internal height K	Fixing screw M	A	Hexagon H	øD1	øD2	W
VSPG-10S*A	10	9.5	1.5	M6x1	4.5	-	3	-	-
VSPG-15S*A	15	9.5	1.5	M6x1	4.5	-	3	-	-
VSPG-20S*A	20	15.5	3	M6x1	4.5	-	3	-	-
VSPG-25S*A	25	15.5	3	M6x1	4.5	-	3	-	-
VSPG-30S*A	30	15.5	3	M6x1	4.5	-	3	-	-
VSPG-35S*A	35	28	3	M6x1	4.5	3	-	22	1.6
VSPG-50S*A	50	28	3	M6x1	4.5	3	-	22	1.6
VSPG-70S*A	70	30	3	M10x1.5	6	14	6	-	-
VSPG-100S*A	100	30	3.5	M10x1.5	6	14	6	-	-

Safety precautions



CAUTION

■ When replacing the suction pad, use a manual tightening torque for pad diameter: ø10 to ø30 mm and securely tighten by hand until it hits the end. For tightening torque of pad diameter: ø35 to ø100 mm, tighten using an appropriate tool according to the tightening torque in Common Precautions for suction pad (Intro Page 20) and confirm that there is no looseness.

■ When mounting the pad frame (Applicable pad diameter: ø10 to ø30 mm), Tightening torque: Tighten using an appropriate tool in accordance with 0.45 to 0.55N·m and confirm that there is no looseness.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention



Suction pad bellows

VSP-*B* Series

Suction pad that molds softly to the workpiece with a bellows structure

RoHS

Since the bellows (bellows) track to curved workpieces, it is ideal for transporting retort-packs or bags containing food, etc.

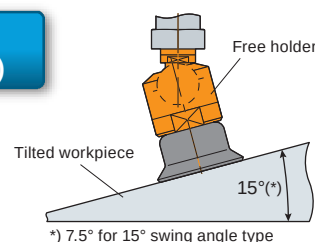
A wide range of holder variations

Shape	18types	Pipingconnection	9types	Stroke	12types
●Standard6 types ●CompactClass 5 ●Low dust	●generation...2 types ●Lightweight3 types ●Low back: 2 types	●Push-in fitting (ø1.8 to ø8)Four types ●Barbed fitting (ø4, ø6) Two types ●Screw-in (M3, M5, G1/8) . 3 types		2mm to 50mm (Depends on pad diameter and holder)	

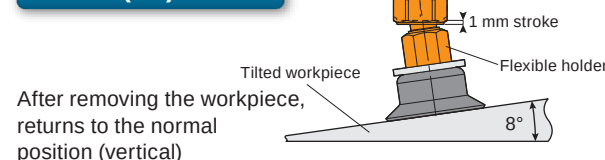
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle

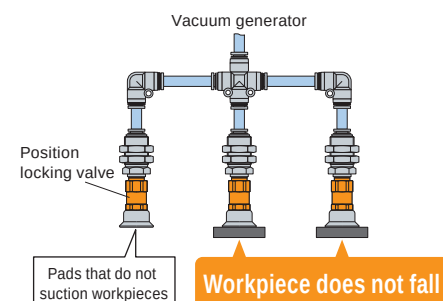
Free holder
(F1:30°, F2:15°)



Flexible holder
(CF)



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



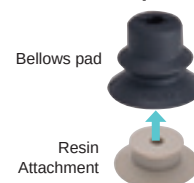
Supports workpieces susceptible to suction marks simply by attaching the dedicated resin attachment to the bellows pad

Size 5types

ø10 to ø30

Material 3types

- PEEK
- POM
- Conductive PEEK



Pad surface treatment (option) is available for special treatment to reduce suction marks

	-NF	-SF	-DL	-ER	-FG
	Fiber raising		Anti-sticking	Suction mark relief	Fluorine coating
	Nylon	Silk			
Surface-Treated					
Compatible materials	Silicone Fluorine	Silicone Fluorine	Silicone Fluorine Conductive silicone	Nitriles Conductive NBR (low resistance)	Silicone Conductive silicone Super-soft silicone
Features	The fibers (nylon or silk) on the pad surface prevent rubber material transfer by avoiding direct contact with the workpiece.		Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

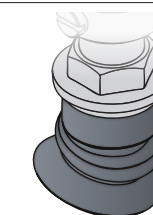
VSP-*B* Series

Pad shape



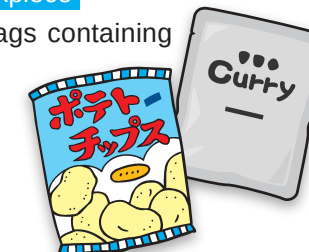
1-stage bellows

Track to a change in the height of the workpiece in contact with it or to an inclination of the surface.



Recommended workpiece

Retort-packs and bags containing food etc.



Pad diameter

14 types

2	4	6	8	10	15	20	25	30	40	50
60	80	100								

Pad material

10 types

Nitriles	Silicone	Urethane	Fluorine	Conductive silicone
Conductive NBR (low resistance)	HNBR	EPDM		
Ultra-soft silicone hardness 20°	Ultra-soft silicone hardness 40°			

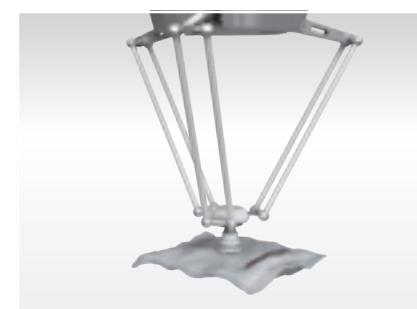


*Ultra-soft silicone (YS2, YS4) is compliant with the Food Sanitation Act and the FDA. Silicone (S) is compatible with the Food Sanitation Act.

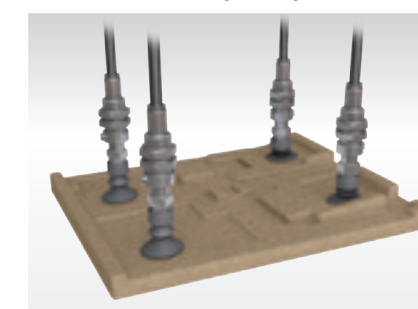
(holder is not supported/suction pad is compatible only with workpiece contact part)

Solution examples

When the suction surface is not flat
It flexibly track to uneven workpieces such as retort-packs.

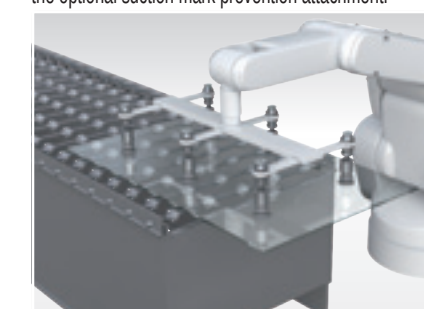


Workpieces with irregular suction surface height
Suctions are possible by track to workpieces such as cardboard or paper boxes whose suction surface changes height.



Workpieces that must not have suction marks

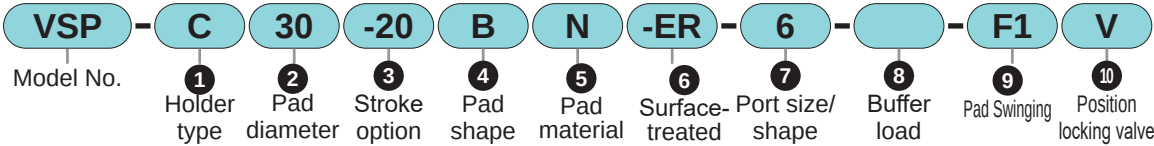
Supports workpieces such as glass substrates by using the optional suction mark prevention attachment.



How to order

●Bellows

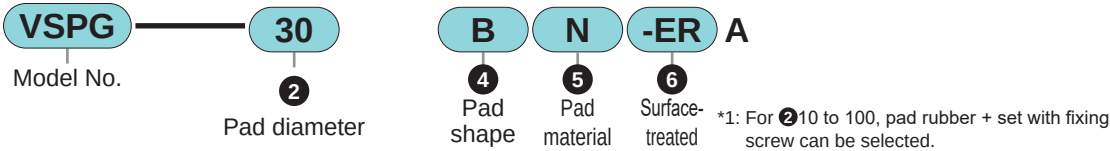
Suction pad



Pad rubber only



Pad rubber + set with fixing screw



1 Holder type

With/Without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact	Upward direction	MA	
	Standard	Lateral direction	B	
	Compact	Lateral direction	MB	
	Standard	Lateral direction	HE	
	Low height	Both lateral directions	HEW	
	Standard	Direct mounting	E	
	Compact	Direct mounting	ME	

With/Without buffer	Type	Vacuum outlet	Code	
Buffer type	Standard	Upward direction	C	
	Compact	Upward direction	MC	
	Low dust generation	Upward direction	LFC	
	Standard	Lateral direction	D	
	Compact	Lateral direction	MD	
	Low dust generation	Lateral direction	LFD	
	Lightweight	Both lateral directions	HDW	
	Standard	Direct mounting	F	

2 Pad diameter

Pad shape	B										Code
Pad material	N	S	YS2	YS4	U	F	SE	NE	HN	EP	
Pad diameter											
ø2	●	●									2
ø4	●	●					●				4
ø6	●	●			●	●	●	●	●	●	6
ø8	●	●			●	●	●	●	●	●	8
ø10	●	●	*1	*1	●	●	●	●	●	●	10
ø15	●	●	*1		●	●	●	●	●	●	15
ø20	●	●			●	●	●	●	●	●	20
ø25	●	●			●	●	●	●	●	●	25
ø30	●	●			●	●	●	●	●	●	30
ø40	●	●			●	●	●	●	●	●	40
ø50	●	●			●	●	●	●	●	●	50
ø60	●	●			●	●	●	●	●	●	60
ø80	●	●			●	●	●	●	●	●	80
ø100	●	●			●	●	●	●	●	●	100

*1: 2 YS2 5 of 10, YS4, and 2 YS2 of 515 can be selected only when 6 -FG is selected.

4 Pad shape

Code	Description
B	Bellows

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
YS2	Super soft silicone rubber (hardness 20°)
YS4	Super soft silicone rubber (hardness 40°)
U	Urethane rubber
F	Fluoro rubber
SE	Conductive silicone rubber
NE	Conductive NBR (low resistance)
HN	HNBR
EP	EPDM

3 Stroke option

Description	Holder type					Code
	C	D	HC	LFC	LFD	
Specified stroke or without buffer	●	●				Blank
Stroke 2 mm				●		-2
Stroke 5 mm				●	●	-5
Stroke 10 mm	●	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	●	-20
Stroke 25 mm			●			-25
Stroke 30 mm	●	●	●			-30
Stroke 40 mm	●	●	●			-40
Stroke 50 mm	●	●	●			-50

*1: 1 Blank for models other than 3 C, D, HC, LFC, LFD.

*2: For a designated stroke with blank, check the stroke dimensions on the dimensions fig.

*3: For 2 6 to 15, 3 -2 can be selected.

6 Surface-treated

Description	Compatible pad material						Supported pad diameter	Code
	N	S	YS2	YS4	F	SE	NE	
No surface treatment	All pads material, all pad diameters							Blank
Fiber nap (nylon)		●			●		ø15 to ø80	-NF
Fiber raising (silk)		●			●		ø15 to ø80	-SF
Anti-stick special coating	●				●	●	ø6 to ø50	-DL
Suction mark reduction surface modification	●					●	ø6 to ø60	-ER
Fluorine coating		●	●	●	●		ø6 to ø100	-FG

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing processes

VSP - - **P4***

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - **FP***

7 Port size/shape

Description	Holder type															Code
	A	B	C	D	MA	MB	MC	MD	ME	LFC	LFD	HC	HD	HDW	HE	HEW
(1: For E and F)																Blank
ø1.8 push-in fitting		●	●	●	●	●	●	●				●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	4
ø6 push-in fitting		●	●	●		●	●	●		●	●	●	●	●	●	6
ø8 push-in fitting	●	●	●	●								●	●	●	●	8
ø4 Push-in fitting, without spring cover			●	●												4C
ø6 Push-in fitting, without spring cover			●	●												6C
ø4 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●												4TC
ø6 Barbed fitting, without spring cover			●	●												6TC
M5x0.8									●							M5
G1/8	●	●	●	●												6A

*1: If 3 -20 to -50 is available for 1 C and D, 7 4C, 6C, 4TC, 6TC can be selected. *2: The available port size and shape differ depending on the 2 pad diameter. Check with the combination table below.

9 Swiveling pad

Code	Description	
Blank	None	
F1	Free holder swinging With angle 30°	
F2	Free holder swinging With angle 15°	
CF	Flexible holder With angle 8°	

*1: 2 When 10 to 100, 9 F1 and F2 can be selected.

*2: For 1 E 2 6, 8, 1 ME and 2 10 to 50, 9 CF can be selected.

10 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

*1: For 1 E, ME and 2 10 to 100, 10 V can be selected.

*2: For 6 -NF and -SF, 10 blank.

11 Resin attachment material

Code	Description	
K	PEEK	
M	POM	
KE	Conductive PEEK	

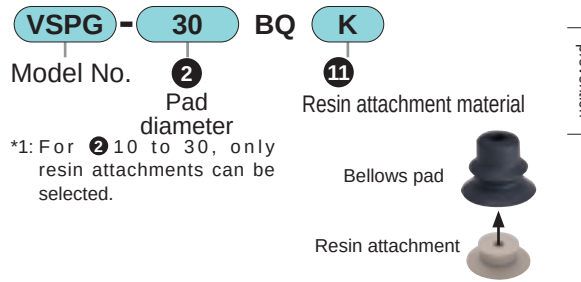
Holder shape - pad diameter - pad shape - port size/shape combinations

Holder type	Pad diameter	Push-in fitting				Barbed fitting				Thread
		ø1.8	ø4	ø6	ø8	ø4	ø6	ø4	ø6	G1/8
A	ø2 to ø4		●					●		
	ø6 to ø8			●				●		
	ø10 to ø15				●			●		
	ø20 to ø50					●		●		
	ø60 to ø100		●		●					●
B	ø2 to ø4	●	●					●		
	ø6 to ø8	●	●		●			●		
	ø10 to ø50		●					●		
	ø60 to ø100		●		●					●
C	ø2 to ø4	●	●					●		
	ø6 to ø8	●	●	●	●			●	●	●
	ø10 to ø50		●		●			●		
	ø60 to ø100		●		●					●
D	ø2 to ø4	●	●					●		
	ø6 to ø8	●	●	●	●			●	●	●
	ø10 to ø50		●		●			●		
	ø60 to ø100		●		●					●

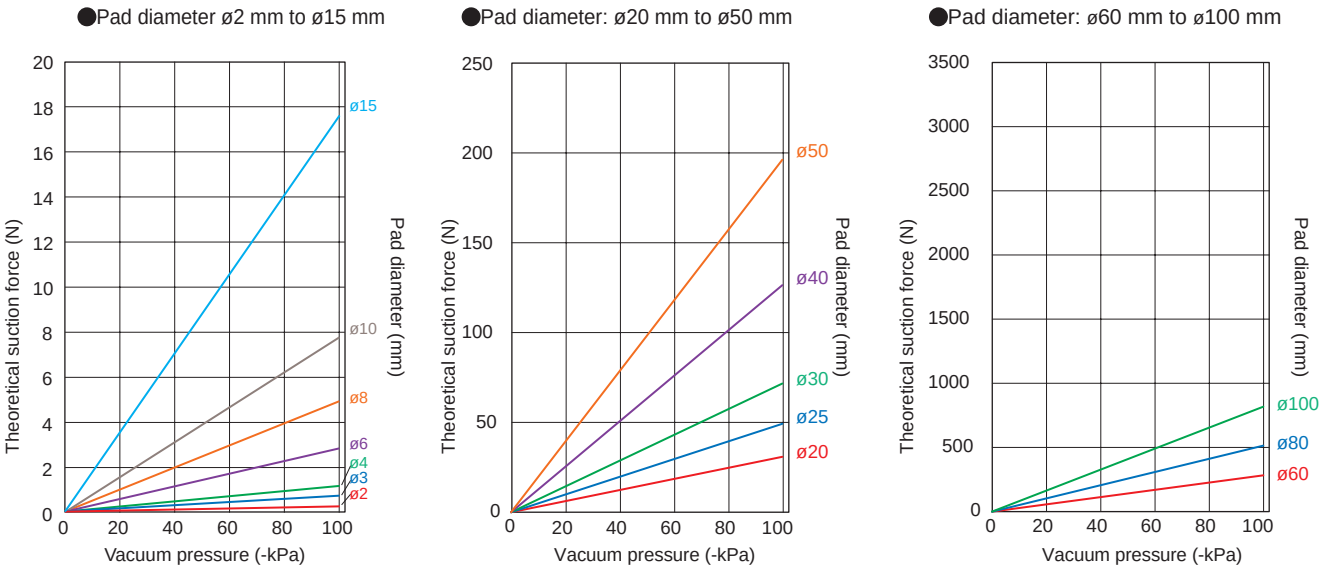
Holder type	Pad diameter	Push-in fitting				Barbed fitting	
		ø1.8	ø4	ø6	ø8	ø4	ø6
MA	ø6 to ø8	●				●	
	ø10 to ø15		●				
	ø20 to ø50			●	●		
MB	ø6 to ø8	●	●			●	
	ø10 to ø50		●	●	●		
MC	ø6 to ø8	●				●	
	ø10 to ø50	●	●			●	
MD	ø6 to ø8	●	●			●	
	ø10 to ø50	●	●	●	●		

Holder Shape	Pad diameter	Push-in fitting				Barbed fitting	
		ø1.8	ø4	ø6	ø8	ø4	ø6
LFC	ø6 to ø15		●			●	
	ø20 to ø50			●	●		
LFD	ø6 to ø15		●			●	
	ø20 to ø50			●	●		
HC	ø10 to ø50	●	●	●	●	●	
HD	ø6 to ø50	●	●	●	●	●	
HDW	ø6 to ø50	●	●	●	●	●	
HE	ø6 to ø50	●	●	●	●	●	
HEW	ø6 to ø50	●	●	●	●	●	

●Suction mark prevention resin attachment for bellows pad only



Theoretical suction force

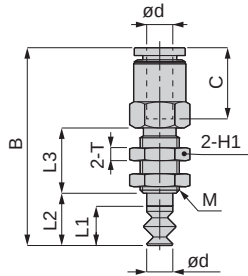


Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use. For the bellows type suction force, it may not be possible to secure the calculated suction force (theoretical suction force x safety factor) due to the effect of pad characteristics such as degree of vacuum/pad material/suctioned object. Before selection, use the suction force obtained by "Selection method of suction pad" (page 288) as a guide, and make sure that there are no problems with the suction capacity on the actual machine.

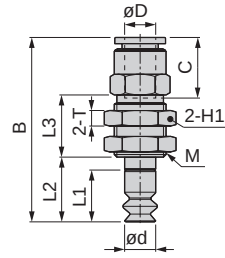
- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

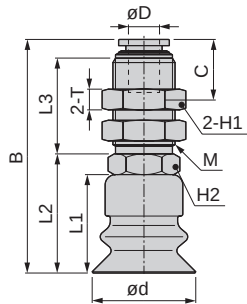
●VSP-A2, 4B*-4



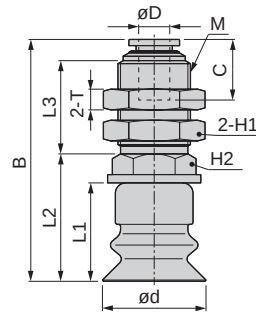
●VSP-A6, 8B*-4/6



●VSP-A10, 15B*-6



●VSP-A20 to 50B*-4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	L3	Tube end C	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A2B*-4	2	4	M6x0.75	30.6	6	8	10	11.2	8	—	2	5.7
VSP-A4B*-4	4	4	M6x0.75	30.6	6	8	10	11.2	8	—	2	5.7
VSP-A6B*-4	6	4	M8x0.75	35.1	10	12.5	12	11.2	10	—	2	8.5
VSP-A6B*-6		6	M10x1	35.8				11.9	12		3	13
VSP-A8B*-4	8	4	M8x0.75	35.1	10	12.5	12	11.2	10	—	2	8.5
VSP-A8B*-6		6	M10x1	35.8				11.9	12		3	13
VSP-A10B*-6	10	6	M12x1	42.3	16	20	18.5	11.9	14	12	4	22
VSP-A15B*-6	15	6	M12x1	42.3	16	20	18.5	11.9	14	12	4	22
VSP-A20B*-4	20	4	M12x1	55.9	19	25	18	11.2	14	12	4	31
VSP-A20B*-6		6	M14x1	46.9		24.6		11.9	17	14		37
VSP-A25B*-4	25	4	M12x1	55.9	19	25	18	11.2	14	12	4	32
VSP-A25B*-6		6	M14x1	46.9		24.6		11.9	17	14		38
VSP-A30B*-4	30	4	M12x1	59.9	23	29	18	11.2	14	12	4	34
VSP-A30B*-6		6	M14x1	50.9		28.6		11.9	17	14		40
VSP-A40B*-4	40	4	M12x1	66.9	30	36	18	11.2	14	12	4	43
VSP-A40B*-6		6	M14x1	57.9		35.6		11.9	17	14		49
VSP-A50B*-4	50	4	M12x1	68.9	32	38	18	11.2	14	12	4	49
VSP-A50B*-6		6	M14x1	59.9		37.6		11.9	17	14		55

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

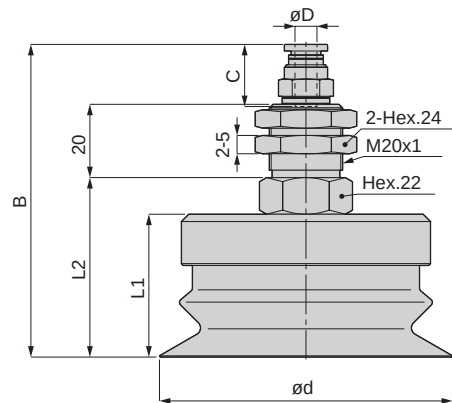
Thin object

Flat

Suction mark
prevention

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

●VSP-A60 to 100B*-4/6/8

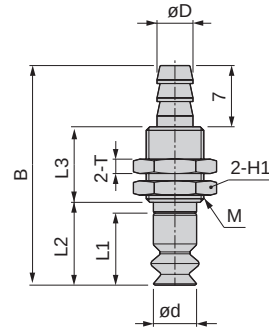
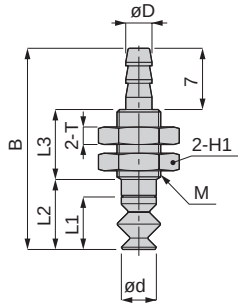


							Unit: mm
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Weight (g)
VSP-A60B*-4	60	4	80.2	37	49.6	11.2	149
VSP-A60B*-6		6	82.4			11.9	150
VSP-A60B*-8		8	90.8			18.2	155
VSP-A80B*-4	80	4	79.6	39	49	11.2	231
VSP-A80B*-6		6	81.8			11.9	232
VSP-A80B*-8		8	90.2			18.2	237
VSP-A100B*-4	100	4	85.6	45	55	11.2	330
VSP-A100B*-6		6	87.8			11.9	331
VSP-A100B*-8		8	96.2			18.2	336

Dimensions (fixed, vacuum outlet top VSP-A, barbed fitting)

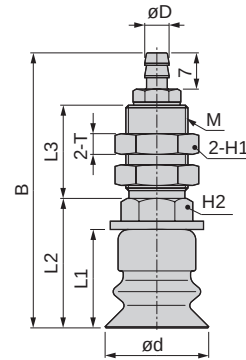
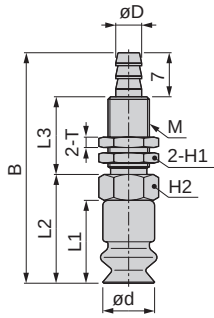
●VSP-A2 to 4B*-4T

●VSP-A6, 8B*-4T/6T



●VSP-A10, 15B*-6T

●VSP-A20 to 50B*-4T/6T



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	L3	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A2B*-4T	2	2.5	M5x0.5	23	6	8	8	8	—	2	4
VSP-A4B*-4T	4	2.5	M5x0.5	23	6	8	8	8	—	2	4
VSP-A6B*-4T	6	2.5	M5x0.5	27.5	10	12.5	8	8	—	2	6
VSP-A6B*-6T		4	M8x0.75	29		11.5	10.5	10			8
VSP-A8B*-4T	8	2.5	M5x0.5	27.5	10	12.5	8	8	—	2	6
VSP-A8B*-6T		4	M8x0.75	29		11.5	10.5	10			8
VSP-A10B*-6T	10	4	M8x0.75	43	16	21	15	10	10	2	12
VSP-A15B*-6T	15	4	M8x0.75	43	16	21	15	10	10	2	13
VSP-A20B*-4T	20	2.5	M12x1	53	19	25	18	14	12	4	30
VSP-A20B*-6T		4									
VSP-A25B*-4T	25	2.5	M12x1	53	19	25	18	14	12	4	31
VSP-A25B*-6T		4									
VSP-A30B*-4T	30	2.5	M12x1	57	23	29	18	14	12	4	34
VSP-A30B*-6T		4									
VSP-A40B*-4T	40	2.5	M12x1	64	30	36	18	14	12	4	42
VSP-A40B*-6T		4									
VSP-A50B*-4T	50	2.5	M12x1	66	32	38	18	14	12	4	48
VSP-A50B*-6T		4									

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

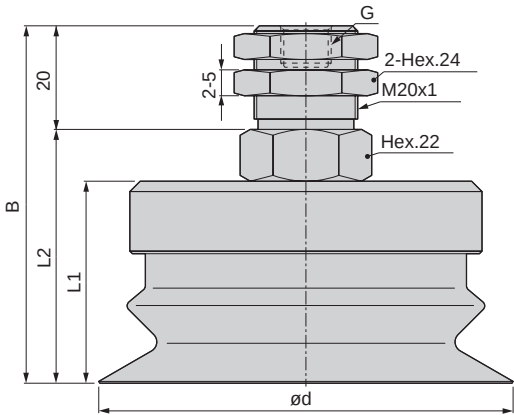
Thin object

Flat

Suction mark
prevention

Dimensions (fixed, vacuum outlet, top, VSP-A, female thread)

●VSP-A60 to 100B*-6A



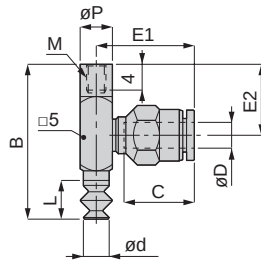
Unit: mm

Model No.	Pad diameter Ød	Vacuum outlet size G	B	L1	L2	Weight (g)
VSP-A60B*-6A	60	G1/8	69.6	37	49.6	141
VSP-A80B*-6A	80	G1/8	69	39	49	223
VSP-A100B*-6A	100	G1/8	75	45	55	322

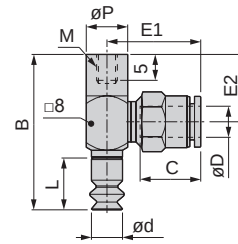
- Suction pad
- General/Deep/Compact
- Sponge
- BelloWS
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (fixed, vacuum outlet, side, VSP-B, push-in fitting)

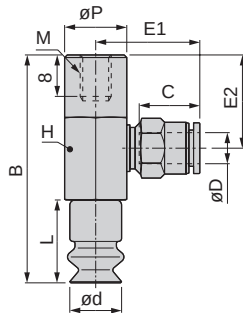
●VSP-B2, 4B*-2/4



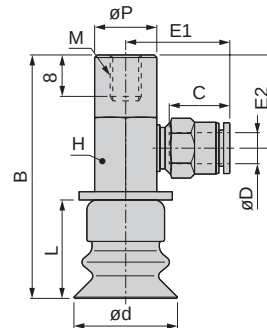
●VSP-B6, 8B*-4/6



●VSP-B10, 15B*-4/6



●VSP-B20 to 50B*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L	Tube end C	øP	E1	E2	Hexagon H	Weight (g)
VSP-B2B*-2	2	1.8	M3x0.5	24	6	8.4	5	12	11	—	5
VSP-B2B*-4		4				11.2		15.3			6
VSP-B4B*-2	4	1.8	M3x0.5	24	6	8.4	5	12	11	—	5
VSP-B4B*-4		4				11.2		15.3			6
VSP-B6B*-2	6	1.8	M4x0.7	30	10	8.4	8	12.7	13	—	12
VSP-B6B*-4		4				11.2		16.8			13
VSP-B6B*-6		6				11.9		18.6			14
VSP-B8B*-2	8	1.8	M4x0.7	30	10	8.4	8	12.7	13	—	12
VSP-B8B*-4		4				11.2		16.8			13
VSP-B8B*-6		6				11.9		18.6			14
VSP-B10B*-4	10	4	M6x1	44	16	11.2	12	18.8	18	12	30
VSP-B10B*-6		6				11.9		20.1			31
VSP-B15B*-4	15	4	M6x1	44	16	11.2	12	18.8	18	12	30
VSP-B15B*-6		6				11.9		20.1			31
VSP-B20B*-4	20	4	M6x1	47	19	11.2	12	18.8	18	12	33
VSP-B20B*-6		6				11.9		20.1			34
VSP-B25B*-4	25	4	M6x1	47	19	11.2	12	18.8	18	12	34
VSP-B25B*-6		6				11.9		20.1			35
VSP-B30B*-4	30	4	M6x1	51	23	11.2	12	18.8	18	12	37
VSP-B30B*-6		6				11.9		20.1			38
VSP-B40B*-4	40	4	M6x1	58	30	11.2	12	18.8	18	12	45
VSP-B40B*-6		6				11.9		20.1			46
VSP-B50B*-4	50	4	M6x1	60	32	11.2	12	18.8	18	12	51
VSP-B50B*-6		6				11.9		20.1			52

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

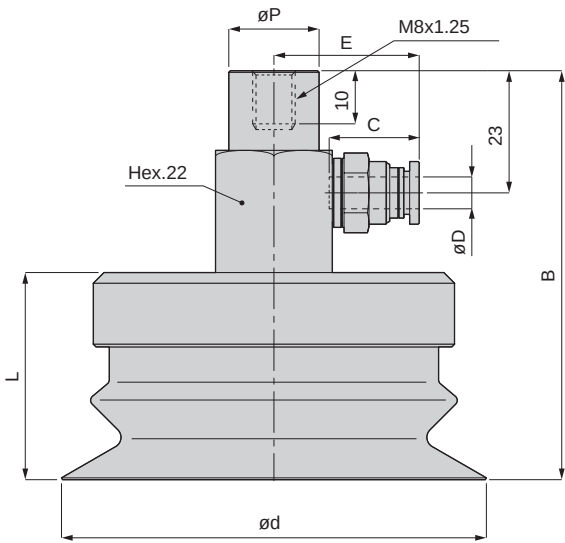
Flat

Suction mark
prevention

VSP-***B*** Series

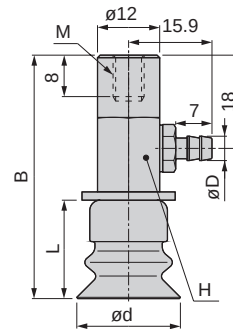
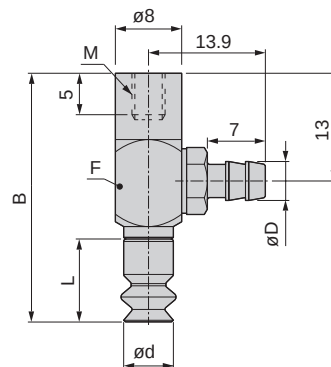
Dimensions (fixed, vacuum outlet, side, VSP-B, push-in fitting)

●VSP-B60 to 100B*-4/6/8



Unit: mm								
Model No.	Pad diameter ϕd	Bore size ϕD	B	L	Tube end C	ϕP	E	Weight (g)
VSP-B60B*-4	60	4	77.6	37	11.2	17	21.5	155
VSP-B60B*-6		6			11.9		23.7	156
VSP-B60B*-8		8			18.2		32.1	161
VSP-B80B*-4	80	4	77	39	11.2	17	21.5	238
VSP-B80B*-6		6			11.9		23.7	239
VSP-B80B*-8		8			18.2		32.1	244
VSP-B100B*-4	100	4	83	45	11.2	17	21.5	337
VSP-B100B*-6		6			11.9		23.7	338
VSP-B100B*-8		8			18.2		32.1	343

●VSP-B6, 8B*-4T/6T

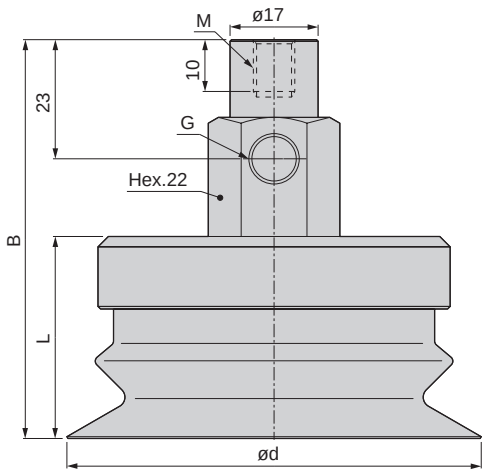


Model No.	Pad diameter øD	Bore size øD	Mounting screw M	B	L	Hexagon H	□F	Weight (g)
VSP-B2B*-4T	2	2.5	M3x0.5	24	6	—	5	5
VSP-B2B*-6T		4						
VSP-B4B*-4T	4	2.5	M3x0.5	24	6	—	5	5
VSP-B4B*-6T		4						
VSP-B6B*-4T	6	2.5	M4x0.7	30	10	—	8	12
VSP-B6B*-6T		4						
VSP-B8B*-4T	8	2.5	M4x0.7	30	10	—	8	12
VSP-B8B*-6T		4						
VSP-B10B*-4T	10	2.5	M6x1	44	16	12	—	29
VSP-B10B*-6T		4						
VSP-B15B*-4T	15	2.5	M6x1	44	16	12	—	30
VSP-B15B*-6T		4						
VSP-B20B*-4T	20	2.5	M6x1	47	19	12	—	32
VSP-B20B*-6T		4						
VSP-B25B*-4T	25	2.5	M6x1	47	19	12	—	33
VSP-B25B*-6T		4						
VSP-B30B*-4T	30	2.5	M6x1	51	23	12	—	36
VSP-B30B*-6T		4						
VSP-B40B*-4T	40	2.5	M6x1	58	30	12	—	44
VSP-B40B*-6T		4						
VSP-B50B*-4T	50	2.5	M6x1	60	32	12	—	50
VSP-B50B*-6T		4						

Suction mark

Dimensions (fixed, vacuum outlet, side, VSP-B, female thread)

●VSP-B60 to 100B*-6A



Unit: mm

Model No.	Pad diameter Ød	Vacuum outlet size G	Mounting screw M	B	L	Weight (g)
VSP-B60B*-6A	60	G1/8	M8x1.25	77.6	37	147
VSP-B80B*-6A	80	G1/8	M8x1.25	77	39	230
VSP-B100B*-6A	100	G1/8	M8x1.25	83	45	329

- Suction pad
- General/Deep/
Compact
- Sponge
- Bel lows
- Multi-stage
bellows
- Oval
- Soft
- Soft
bellows
- Anti-slip
- Thin object
- Flat
- Suction mark
prevention

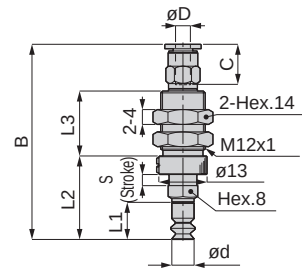
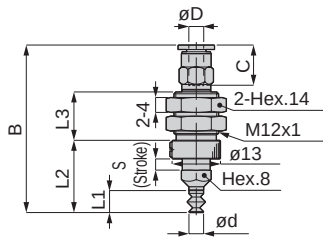
Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

●VSP-C2 to 4B*-2/4/6

●VSP-C2 to 4-□B*-2/4/6

●VSP-C6, 8B*-2/4/6

●VSP-C6, 8-□B*-2/4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C2B*-2	2	1.8	41.4	6	19.5	13	8.4	3	0.9 to 1.9	16
VSP-C2B*-4		4	45.5				11.2			17
VSP-C2B*-6		6	47.3				11.9			18
VSP-C2-10B*-2		1.8	55.4		29	17.5	8.4	10	0.6 to 1.7	20
VSP-C2-10B*-4		4	59.5				11.2			21
VSP-C2-10B*-6		6	61.3				11.9			22
VSP-C2-15B*-2		1.8	66.4		34	23.5	8.4	15	0.4 to 1.7	23
VSP-C2-15B*-4		4	70.5				11.2			24
VSP-C2-15B*-6		6	72.3				11.9			25
VSP-C2-20B*-2		1.8	76.4		39	28.5	8.4	20	0.3 to 1.8	26
VSP-C2-20B*-4		4	80.5				11.2			27
VSP-C2-20B*-6		6	82.3				11.9			28
VSP-C4B*-2	4	1.8	41.4	6	19.5	13	8.4	3	0.9 to 1.9	16
VSP-C4B*-4		4	45.5				11.2			17
VSP-C4B*-6		6	47.3				11.9			18
VSP-C4-10B*-2		1.8	55.4		29	17.5	8.4	10	0.6 to 1.7	20
VSP-C4-10B*-4		4	59.5				11.2			21
VSP-C4-10B*-6		6	61.3				11.9			22
VSP-C4-15B*-2		1.8	66.4		34	23.5	8.4	15	0.4 to 1.7	23
VSP-C4-15B*-4		4	70.5				11.2			24
VSP-C4-15B*-6		6	72.3				11.9			25
VSP-C4-20B*-2		1.8	76.4		39	28.5	8.4	20	0.3 to 1.8	26
VSP-C4-20B*-4		4	80.5				11.2			27
VSP-C4-20B*-6		6	82.3				11.9			28
VSP-C6B*-2	6	1.8	44.4	10	22.5	13	8.4	3	0.9 to 1.9	17
VSP-C6B*-4		4	48.5				11.2			18
VSP-C6B*-6		6	50.3				11.9			19
VSP-C6-10B*-2		1.8	58.4		29.5	17.5	8.4	10	0.8 to 2.7	18
VSP-C6-10B*-4		4	62.5				11.2			19
VSP-C6-10B*-6		6	64.3				11.9			20
VSP-C6-15B*-2		1.8	69.4		34.5	23.5	8.4	15	0.7 to 3.0	22
VSP-C6-15B*-4		4	73.5				11.2			23
VSP-C6-15B*-6		6	75.3				11.9			24
VSP-C6-20B*-2		1.8	79.4		39.5	28.5	8.4	20	0.9 to 3.4	24
VSP-C6-20B*-4		4	83.5				11.2			25
VSP-C6-20B*-6		6	85.3				11.9			26
VSP-C8B*-2	8	1.8	44.4	10	22.5	13	8.4	3	0.9 to 1.9	17
VSP-C8B*-4		4	48.5				11.2			18
VSP-C8B*-6		6	50.3				11.9			19
VSP-C8-10B*-2		1.8	58.4		29.5	17.5	8.4	10	0.8 to 2.7	18
VSP-C8-10B*-4		4	62.5				11.2			19
VSP-C8-10B*-6		6	64.3				11.9			20
VSP-C8-15B*-2		1.8	69.4		34.5	23.5	8.4	15	0.7 to 3.0	22
VSP-C8-15B*-4		4	73.5				11.2			23
VSP-C8-15B*-6		6	75.3				11.9			24
VSP-C8-20B*-2		1.8	79.4		39.5	28.5	8.4	20	0.9 to 3.4	24
VSP-C8-20B*-4		4	83.5				11.2			25
VSP-C8-20B*-6		6	85.3				11.9			26

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

VSP-*B* Series

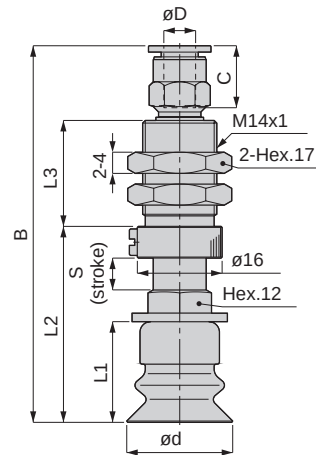
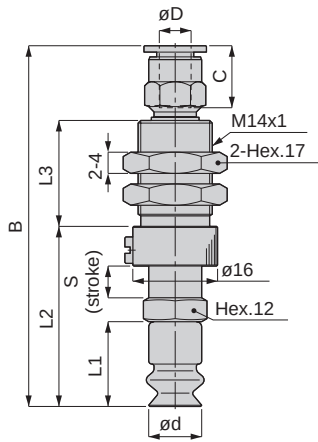
Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

●VSP-C10, 15B*-4/6

●VSP-C10, 15-□B*-4/6

●VSP-C20 to 50B*-4/6

●VSP-C20 to 50-□B*-4/6

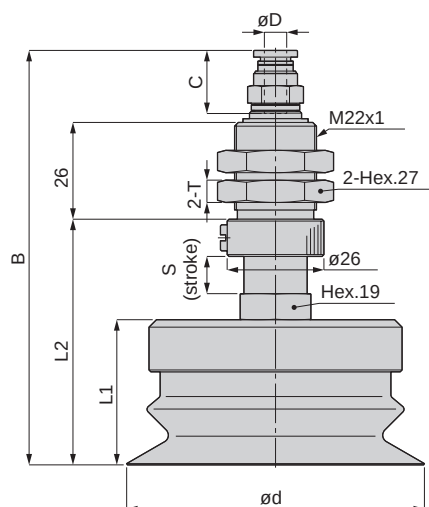


Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C10B*-4	10	4	67	16	34	20	11.2	6	4.0 to 7.1	35
	VSP-C10B*-6		6	68.3				11.9			36
Sponge	VSP-C10-10B*-4		4	71.5		38.5		10	11.2	2.0 to 5.2	36
	VSP-C10-10B*-6		6	72.8					11.9		37
Bellows	VSP-C10-15B*-4		4	81.5		43.5	25	11.2	15	2.0 to 5.9	41
	VSP-C10-15B*-6		6	82.8				11.9			42
Multi-stage bellows	VSP-C10-20B*-4	4	97.5	50.5	34	11.2	20	1.1 to 4.8	49		
	VSP-C10-20B*-6	6	98.8			11.9			50		
Multi-stage bellows	VSP-C15B*-4	15	4	67	16	34	20	11.2	6	4.0 to 7.1	36
	VSP-C15B*-6		6	68.3				11.9			37
	VSP-C15-10B*-4		4	71.5		38.5		10	2.0 to 5.2	11.2	37
	VSP-C15-10B*-6		6	72.8						11.9	38
	VSP-C15-15B*-4		4	81.5		43.5	25	15	2.0 to 5.9	11.2	42
	VSP-C15-15B*-6		6	82.8						11.9	43
Multi-stage bellows	VSP-C15-20B*-4		4	97.5	50.5	34	20	1.1 to 4.8	11.2	49	
	VSP-C15-20B*-6		6	98.8					11.9	50	
Oval	VSP-C20B*-4	20	4	70	19	37	20	11.2	6	7.0 to 12.6	39
	VSP-C20B*-6		6	71.3				11.9			40
VSP-C20-10B*-4	4		76	43		10		3.3 to 10.0	11.2	41	
VSP-C20-10B*-6	6		77.3						11.9	42	
Soft	VSP-C20-15B*-4		4	86		48	25	15	3.3 to 10.4	11.2	46
	VSP-C20-15B*-6		6	87.3						11.9	47
Soft bellows	VSP-C20-20B*-4	4	102	55	34	20	2.0 to 8.7	11.2	53		
	VSP-C20-20B*-6	6	103.3					11.9	54		
Soft bellows	VSP-C25B*-4	25	4	70	19	37	20	11.2	6	7.0 to 12.6	40
	VSP-C25B*-6		6	71.3				11.9			41
	VSP-C25-10B*-4		4	76		43		10	3.3 to 10.0	11.2	42
	VSP-C25-10B*-6		6	77.3						11.9	43
	VSP-C25-15B*-4		4	86		48	25	15	3.3 to 10.4	11.2	47
	VSP-C25-15B*-6		6	87.3						11.9	48
Anti-slip	VSP-C25-20B*-4		4	102	55	34	20	2.0 to 8.7	11.2	54	
	VSP-C25-20B*-6		6	103.3					11.9	55	
Anti-slip	VSP-C30B*-4	30	4	74	23	41	20	11.2	6	7.0 to 12.6	43
	VSP-C30B*-6		6	75.3				11.9			44
VSP-C30-10B*-4	4		80	47		10		3.3 to 10.0	11.2	47	
VSP-C30-10B*-6	6		81.3						11.9	48	
Thin object	VSP-C30-15B*-4		4	90		52	25	15	3.3 to 10.4	11.2	50
	VSP-C30-15B*-6		6	91.3						11.9	51
Thin object	VSP-C30-20B*-4	4	106	59	34	20	2.0 to 8.7	11.2	57		
	VSP-C30-20B*-6	6	107.3					11.9	58		
Flat	VSP-C40B*-4	40	4	81	30	48	20	11.2	6	7.0 to 12.6	51
	VSP-C40B*-6		6	82.3				11.9			52
	VSP-C40-10B*-4		4	87		54		10	3.3 to 10.0	11.2	54
	VSP-C40-10B*-6		6	88.3						11.9	55
Suction mark prevention	VSP-C40-15B*-4		4	97		59	25	15	3.3 to 10.4	11.2	58
	VSP-C40-15B*-6		6	98.3						11.9	59
Suction mark prevention	VSP-C40-20B*-4		4	113	66	34	20	2.0 to 8.7	11.2	65	
	VSP-C40-20B*-6		6	114.3					11.9	66	
Suction mark prevention	VSP-C50B*-4	50	4	83	32	50	20	11.2	6	7.0 to 12.6	57
	VSP-C50B*-6		6	84.3				11.9			58
VSP-C50-10B*-4	4		89	56		10		3.3 to 10.0	11.2	59	
VSP-C50-10B*-6	6		90.3						11.9	60	
VSP-C50-15B*-4	4		99	61		25	15	3.3 to 10.4	11.2	65	
VSP-C50-15B*-6	6		100.3						11.9	66	
Suction mark prevention	VSP-C50-20B*-4		4	115	68	34	20	2.0 to 8.7	11.2	71	
	VSP-C50-20B*-6		6	116.3					11.9	72	

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

●VSP-C60 to 100B*-4/6/8



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	T	Stroke S	Spring force (N)	Weight (g)
VSP-C60B*-4	60	4	106.2	37	66.6	11.2	6	10	10.1 to 15.8	177
VSP-C60B*-6		6	108.4			11.9				178
VSP-C60B*-8		8	116.8			18.2				183
VSP-C80B*-4	80	4	105.6	39	66	11.2	6	10	10.1 to 15.8	259
VSP-C80B*-6		6	107.8			11.9				260
VSP-C80B*-8		8	116.2			18.2				265
VSP-C100B*-4	100	4	111.6	45	72	11.2	6	10	10.1 to 15.8	358
VSP-C100B*-6		6	113.8			11.9				359
VSP-C100B*-8		8	122.2			18.2				364

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

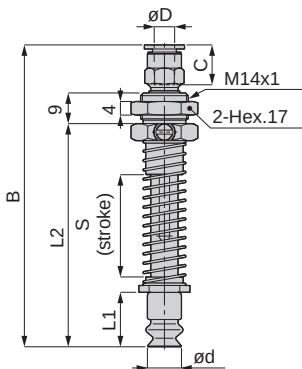
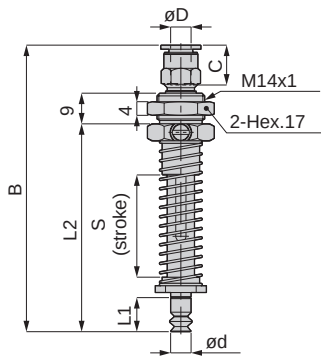
Suction mark
prevention

VSP-**B*** Series

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C6, 8-□B*-4C/6C

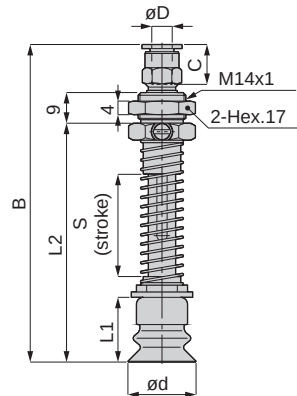
●VSP-C10, 15-□B*-4C/6C



General/Deep/ Compact	Suction pad	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)	Unit: mm
Sponge	Bellows	VSP-C6-20B*-4C	6	4	70	10	48	11.2	20	1.5 to 4.9	43	
		VSP-C6-20B*-6C		6	71.3			11.9			44	
		VSP-C6-30B*-4C		4	83		61	11.2	30	1.1 to 4.8	48	
		VSP-C6-30B*-6C		6	84.3			11.9			49	
Multi-stage bellows	Oval	VSP-C6-40B*-4C	6	4	96	10	74	11.2	40	1.0 to 4.5	54	
		VSP-C6-40B*-6C		6	97.9			11.9			55	
		VSP-C6-50B*-4C		4	109		87	11.2	50	0.9 to 4.5	59	
		VSP-C6-50B*-6C		6	110.9			11.9			60	
Soft bellows	Anti-slip	VSP-C8-20B*-4C	8	4	70	10	48	11.2	20	1.5 to 4.9	43	
		VSP-C8-20B*-6C		6	71.3			11.9			44	
		VSP-C8-30B*-4C		4	83		61	11.2	30	1.1 to 4.8	48	
		VSP-C8-30B*-6C		6	84.3			11.9			49	
Thin object	Flat	VSP-C8-40B*-4C	8	4	96	10	74	11.2	40	1.0 to 4.5	54	
		VSP-C8-40B*-6C		6	97.9			11.9			55	
		VSP-C8-50B*-4C		4	109		87	11.2	50	0.9 to 4.5	59	
		VSP-C8-50B*-6C		6	110.9			11.9			60	
Suction mark prevention		VSP-C10-20B*-4C	10	4	74.5	16	52.5	11.2	20	1.5 to 4.9	43	
		VSP-C10-20B*-6C		6	75.8			11.9			44	
		VSP-C10-30B*-4C		4	87.5		65.5	11.2	30	1.1 to 4.8	48	
		VSP-C10-30B*-6C		6	88.8			11.9			49	
		VSP-C10-40B*-4C	10	4	100.5	16	78.5	11.2	40	1.0 to 4.5	54	
		VSP-C10-40B*-6C		6	101.8			11.9			55	
		VSP-C10-50B*-4C		4	113.5		91.5	11.2	50	0.9 to 4.5	59	
		VSP-C10-50B*-6C		6	114.8			11.9			60	
		VSP-C15-20B*-4C	15	4	74.5	16	52.5	11.2	20	1.5 to 4.9	43	
		VSP-C15-20B*-6C		6	75.8			11.9			44	
		VSP-C15-30B*-4C		4	87.5		65.5	11.2	30	1.1 to 4.8	48	
		VSP-C15-30B*-6C		6	88.8			11.9			49	
		VSP-C15-40B*-4C	15	4	100.5	16	78.5	11.2	40	1.0 to 4.5	54	
		VSP-C15-40B*-6C		6	101.8			11.9			55	
		VSP-C15-50B*-4C		4	113.5		91.5	11.2	50	0.9 to 4.5	59	
		VSP-C15-50B*-6C		6	114.8			11.9			60	

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C20 to 50-□B*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C20-20B*-4C	20	4	79	19	57	11.2	20	1.5 to 4.9	49
VSP-C20-20B*-6C		6	80.3			11.9			50
VSP-C20-30B*-4C		4	92		70	11.2	30	1.1 to 4.8	54
VSP-C20-30B*-6C		6	93.3			11.9			55
VSP-C20-40B*-4C		4	105		83	11.2	40	1.0 to 4.5	59
VSP-C20-40B*-6C		6	106.3			11.9			60
VSP-C20-50B*-4C		4	118		96	11.2	50	0.9 to 4.5	64
VSP-C20-50B*-6C		6	119.3			11.9			65
VSP-C25-20B*-4C	25	4	79	19	57	11.2	20	1.5 to 4.9	50
VSP-C25-20B*-6C		6	80.3			11.9			51
VSP-C25-30B*-4C		4	92		70	11.2	30	1.1 to 4.8	55
VSP-C25-30B*-6C		6	93.3			11.9			56
VSP-C25-40B*-4C		4	105		83	11.2	40	1.0 to 4.5	60
VSP-C25-40B*-6C		6	106.3			11.9			61
VSP-C25-50B*-4C		4	118		96	11.2	50	0.9 to 4.5	65
VSP-C25-50B*-6C		6	119.3			11.9			66
VSP-C30-20B*-4C	30	4	83	23	61	11.2	20	1.5 to 4.9	52
VSP-C30-20B*-6C		6	84.3			11.9			53
VSP-C30-30B*-4C		4	96		74	11.2	30	1.1 to 4.8	57
VSP-C30-30B*-6C		6	97.3			11.9			58
VSP-C30-40B*-4C		4	109		87	11.2	40	1.0 to 4.5	63
VSP-C30-40B*-6C		6	110.3			11.9			64
VSP-C30-50B*-4C		4	122		100	11.2	50	0.9 to 4.5	68
VSP-C30-50B*-6C		6	123.3			11.9			69
VSP-C40-20B*-4C	40	4	90	30	68	11.2	20	1.5 to 4.9	61
VSP-C40-20B*-6C		6	91.3			11.9			62
VSP-C40-30B*-4C		4	103		81	11.2	30	1.1 to 4.8	66
VSP-C40-30B*-6C		6	104.3			11.9			67
VSP-C40-40B*-4C		4	116		94	11.2	40	1.0 to 4.5	71
VSP-C40-40B*-6C		6	117.3			11.9			72
VSP-C40-50B*-4C		4	129		107	11.2	50	0.9 to 4.5	77
VSP-C40-50B*-6C		6	130.3			11.9			78
VSP-C50-20B*-4C	50	4	92	32	70	11.2	20	1.5 to 4.9	67
VSP-C50-20B*-6C		6	93.3			11.9			68
VSP-C50-30B*-4C		4	105		83	11.2	30	1.1 to 4.8	72
VSP-C50-30B*-6C		6	106.3			11.9			73
VSP-C50-40B*-4C		4	118		96	11.2	40	1.0 to 4.5	77
VSP-C50-40B*-6C		6	119.3			11.9			78
VSP-C50-50B*-4C		4	131		109	11.2	50	0.9 to 4.5	82
VSP-C50-50B*-6C		6	132.3			11.9			83

Suction pad

General/Deep/Compact

Sponge

BelloWS

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

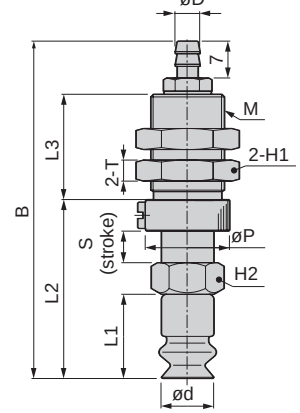
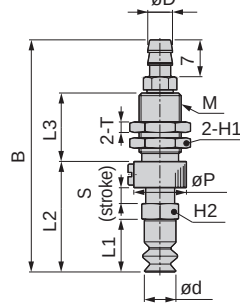
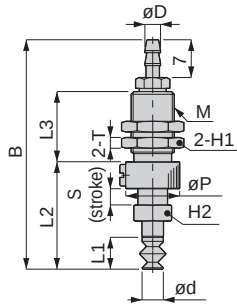
VSP-*B* Series

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C2, 4B*-4T/6T
- VSP-C2, 4-□B*-4T/6T

- VSP-C6, 8B*-4T/6T
- VSP-C6, 8-□B*-4T/6T

- VSP-C10, 15B*-4T/6T
- VSP-C10, 15-□B*-4T/6T

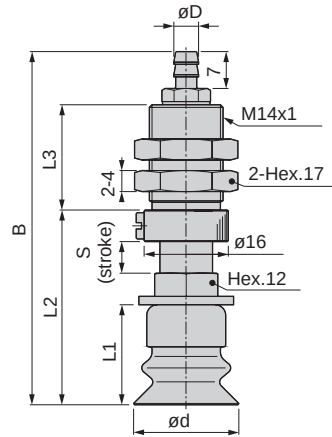


Unit: mm

	Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Hexagon H1	Hexagon H2	T	Stroke S	Spring force (N)	Weight (g)										
General/Deep/ Compact	VSP-C2B*-4T	2	2.5	M8x0.75	42.6	6	20	13	10	10	7	2	3	0.9 to 1.9	8										
	VSP-C2B*-6T		4																						
	VSP-C2-10B*-4T		2.5																						
Sponge	VSP-C2-10B*-6T		4	M12x1	56.6		29	17.5	13	14	8	4	10	0.6 to 1.7	19										
			VSP-C2-15B*-4T													2.5									
			VSP-C2-15B*-6T													4									
	VSP-C2-20B*-4T	2.5																							
Bellows	VSP-C2-20B*-6T	4	77.6	39	28.5	20	0.3 to 1.8	25																	
	VSP-C4B*-4T	2.5	M8x0.75	42.6	20	13	10	10	7	2	3	0.9 to 1.9	8												
	VSP-C4B*-6T	4																							
	VSP-C4-10B*-4T	2.5												M12x1	56.6	29	17.5	13	14	8	4	10	0.6 to 1.7	19	
Multi-stage bellows	VSP-C4-10B*-6T	4																							
	VSP-C4-15B*-4T	2.5	67.6	34	23.5	13	14	8	4	15	0.4 to 1.7	22													
	VSP-C4-15B*-6T	4																							
	VSP-C4-20B*-4T	2.5	77.6	39	28.5	20	0.3 to 1.8	25																	
	VSP-C4-20B*-6T	4																							
Oval	VSP-C6B*-4T	6	2.5	M8x0.75	43.6	10	21	13	10	10	7	2	3	0.9 to 1.9	9										
			VSP-C6B*-6T													4									
	VSP-C6-10B*-4T		2.5													M12x1	57.1	29.5	17.5	13	14	8	4	10	0.8 to 2.7
Soft	VSP-C6-10B*-6T		4																						
	VSP-C6-15B*-4T		2.5	68.1	34.5		23.5	13	14	8	4	15	0.7 to 3.0	22											
			VSP-C6-15B*-6T												4										
Soft bellows	VSP-C6-20B*-4T	2.5	78.1	39.5	28.5	20	0.9 to 3.4	24																	
		VSP-C6-20B*-6T							4																
	VSP-C8B*-4T	8	2.5	M8x0.75	43.6	10	21	13	10	10	7	2	3	0.9 to 1.9	9										
			VSP-C8B*-6T													4									
	VSP-C8-10B*-4T		2.5													M12x1	57.1	29.5	17.5	13	14	8	4	10	0.8 to 2.7
Anti-slip	VSP-C8-10B*-6T		4																						
	VSP-C8-15B*-4T		2.5	68.1	34.5		23.5	13	14	8	4	15	0.7 to 3.0	22											
			VSP-C8-15B*-6T												4										
Thin object	VSP-C8-20B*-4T	2.5	78.1	39.5	28.5	20	0.9 to 3.4	24																	
		VSP-C8-20B*-6T							4																
Flat	VSP-C10B*-4T	10	2.5		64.1	16	34	20	16	17	12	4	6	4.0 to 7.1	34										
			VSP-C10B*-6T													4									
	VSP-C10-10B*-4T		2.5													M14x1	68.6	38.5	25	15	2.0 to 5.9	40			
	VSP-C10-10B*-6T		4																						
	VSP-C10-15B*-4T		2.5	78.6	43.5		34	20					1.1 to 4.8	48											
	VSP-C10-15B*-6T		4																						
Suction mark prevention	VSP-C10-20B*-4T	2.5	94.6	50.5	34	20	1.1 to 4.8	48																	
		VSP-C10-20B*-6T							4																
	VSP-C15B*-4T	15	2.5		64.1	16	34	20	16	17	12	4	6	4.0 to 7.1	35										
			VSP-C15B*-6T													4									
	VSP-C15-10B*-4T		2.5													M14x1	68.6	38.5	25	15	2.0 to 5.9	41			
	VSP-C15-10B*-6T		4																						
	VSP-C15-15B*-4T		2.5	78.6	43.5		34	20					1.1 to 4.8	48											
	VSP-C15-15B*-6T		4																						
	VSP-C15-20B*-4T	2.5	94.6	50.5	34	20	1.1 to 4.8	48																	
	VSP-C15-20B*-6T	4																							

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C20 to 50B*-4T/6T
- VSP-C20 to 50-□B*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C20B*-4T	20	2.5	67.1	19	37	20	6	7.0 to 12.6	38
VSP-C20B*-6T		4							
VSP-C20-10B*-4T		2.5	73.1		43	10	3.3 to 10.0	40	
VSP-C20-10B*-6T		4							
VSP-C20-15B*-4T		2.5	83.1		48	25	15	3.3 to 10.4	45
VSP-C20-15B*-6T		4							
VSP-C20-20B*-4T		2.5	99.1		55	34	20	2.0 to 8.7	52
VSP-C20-20B*-6T		4							
VSP-C25B*-4T	25	2.5	67.1	19	37	20	6	7.0 to 12.6	39
VSP-C25B*-6T		4							
VSP-C25-10B*-4T		2.5	73.1		43	10	3.3 to 10.0	41	
VSP-C25-10B*-6T		4							
VSP-C25-15B*-4T		2.5	83.1		48	25	15	3.3 to 10.4	46
VSP-C25-15B*-6T		4							
VSP-C25-20B*-4T		2.5	99.1		55	34	20	2.0 to 8.7	53
VSP-C25-20B*-6T		4							
VSP-C30B*-4T	30	2.5	71.1	23	41	20	6	7.0 to 12.6	41
VSP-C30B*-6T		4							
VSP-C30-10B*-4T		2.5	77.1		47	10	3.3 to 10.0	44	
VSP-C30-10B*-6T		4							
VSP-C30-15B*-4T		2.5	87.1		52	25	15	3.3 to 10.4	49
VSP-C30-15B*-6T		4							
VSP-C30-20B*-4T		2.5	103.1		59	34	20	2.0 to 8.7	55
VSP-C30-20B*-6T		4							
VSP-C40B*-4T	40	2.5	78.1	32	48	20	6	7.0 to 12.6	50
VSP-C40B*-6T		4							
VSP-C40-10B*-4T		2.5	84.1		54	10	3.3 to 10.0	52	
VSP-C40-10B*-6T		4							
VSP-C40-15B*-4T		2.5	94.1		59	25	15	3.3 to 10.4	57
VSP-C40-15B*-6T		4							
VSP-C40-20B*-4T		2.5	110.1		66	34	20	2.0 to 8.7	64
VSP-C40-20B*-6T		4							
VSP-C50B*-4T	50	2.5	80.1	40	50	20	6	7.0 to 12.6	56
VSP-C50B*-6T		4							
VSP-C50-10B*-4T		2.5	86.1		56	10	3.3 to 10.0	58	
VSP-C50-10B*-6T		4							
VSP-C50-15B*-4T		2.5	96.1		61	25	15	3.3 to 10.4	63
VSP-C50-15B*-6T		4							
VSP-C50-20B*-4T		2.5	112.1		68	34	20	2.0 to 8.7	70
VSP-C50-20B*-6T		4							

Suction pad

General/Deep/Compact

Sponge

BelloWS

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

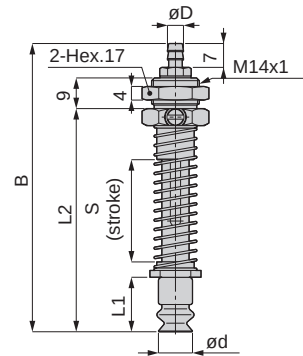
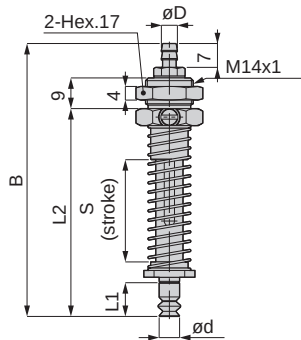
Suction mark prevention

VSP-*B* Series

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

●VSP-C6, 8-□B*-4TC/6TC

●VSP-C10, 15-□B*-4TC/6TC

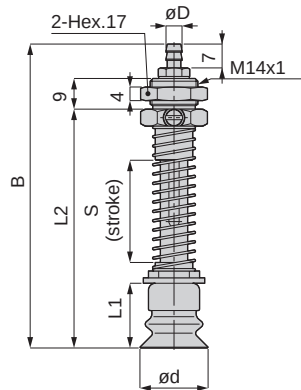


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C6-20B*-4TC	6	2.5	67.1	10	48	20	1.5 to 4.9	42
VSP-C6-20B*-6TC		4						
VSP-C6-30B*-4TC		2.5	80.1		61	30	1.1 to 4.8	47
VSP-C6-30B*-6TC		4						
VSP-C6-40B*-4TC		2.5	93.1		74	40	1.0 to 4.5	52
VSP-C6-40B*-6TC		4						
VSP-C6-50B*-4TC		2.5	106.1		87	50	0.9 to 4.5	58
VSP-C6-50B*-6TC		4						
VSP-C8-20B*-4TC	8	2.5	67.1	10	48	20	1.5 to 4.9	42
VSP-C8-20B*-6TC		4						
VSP-C8-30B*-4TC		2.5	80.1		61	30	1.1 to 4.8	47
VSP-C8-30B*-6TC		4						
VSP-C8-40B*-4TC		2.5	93.1		74	40	1.0 to 4.5	52
VSP-C8-40B*-6TC		4						
VSP-C8-50B*-4TC		2.5	106.1		87	50	0.9 to 4.5	58
VSP-C8-50B*-6TC		4						
VSP-C10-20B*-4TC	10	2.5	71.6	16	52.5	20	1.5 to 4.9	43
VSP-C10-20B*-6TC		4						
VSP-C10-30B*-4TC		2.5	84.6		65.5	30	1.1 to 4.8	48
VSP-C10-30B*-6TC		4						
VSP-C10-40B*-4TC		2.5	97.6		78.5	40	1.0 to 4.5	53
VSP-C10-40B*-6TC		4						
VSP-C10-50B*-4TC		2.5	110.6		91.5	50	0.9 to 4.5	59
VSP-C10-50B*-6TC		4						
VSP-C15-20B*-4TC	15	2.5	71.6	16	52.5	20	1.5 to 4.9	43
VSP-C15-20B*-6TC		4						
VSP-C15-30B*-4TC		2.5	84.6		65.5	30	1.1 to 4.8	48
VSP-C15-30B*-6TC		4						
VSP-C15-40B*-4TC		2.5	97.6		78.5	40	1.0 to 4.5	53
VSP-C15-40B*-6TC		4						
VSP-C15-50B*-4TC		2.5	110.6		91.5	50	0.9 to 4.5	59
VSP-C15-50B*-6TC		4						

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

●VSP-C20 to 50-□B*-4TC/6TC



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C20-20B*-4TC	20	2.5	76.1	19	57	20	1.5 to 4.9	48
VSP-C20-20B*-6TC		4						
VSP-C20-30B*-4TC		2.5	89.1		70	30	1.1 to 4.8	53
VSP-C20-30B*-6TC		4						
VSP-C20-40B*-4TC		2.5	102.1		83	40	1.0 to 4.5	58
VSP-C20-40B*-6TC		4						
VSP-C20-50B*-4TC		2.5	115.1		96	50	0.9 to 4.5	63
VSP-C20-50B*-6TC		4						
VSP-C25-20B*-4TC	25	2.5	76.1	19	57	20	1.5 to 4.9	49
VSP-C25-20B*-6TC		4						
VSP-C25-30B*-4TC		2.5	89.1		70	30	1.1 to 4.8	54
VSP-C25-30B*-6TC		4						
VSP-C25-40B*-4TC		2.5	102.1		83	40	1.0 to 4.5	59
VSP-C25-40B*-6TC		4						
VSP-C25-50B*-4TC		2.5	115.1		96	50	0.9 to 4.5	64
VSP-C25-50B*-6TC		4						
VSP-C30-20B*-4TC	30	2.5	80.1	23	61	20	1.5 to 4.9	50
VSP-C30-20B*-6TC		4						
VSP-C30-30B*-4TC		2.5	93.1		74	30	1.1 to 4.8	55
VSP-C30-30B*-6TC		4						
VSP-C30-40B*-4TC		2.5	106.1		87	40	1.0 to 4.5	60
VSP-C30-40B*-6TC		4						
VSP-C30-50B*-4TC		2.5	119.1		100	50	0.9 to 4.5	65
VSP-C30-50B*-6TC		4						
VSP-C40-20B*-4TC	40	2.5	87.1	30	68	20	1.5 to 4.9	60
VSP-C40-20B*-6TC		4						
VSP-C40-30B*-4TC		2.5	100.1		81	30	1.1 to 4.8	65
VSP-C40-30B*-6TC		4						
VSP-C40-40B*-4TC		2.5	113.1		94	40	1.0 to 4.5	70
VSP-C40-40B*-6TC		4						
VSP-C40-50B*-4TC		2.5	126.1		107	50	0.9 to 4.5	75
VSP-C40-50B*-6TC		4						
VSP-C50-20B*-4TC	50	2.5	89.1	32	70	20	1.5 to 4.9	66
VSP-C50-20B*-6TC		4						
VSP-C50-30B*-4TC		2.5	102.1		83	30	1.1 to 4.8	71
VSP-C50-30B*-6TC		4						
VSP-C50-40B*-4TC		2.5	115.1		96	40	1.0 to 4.5	76
VSP-C50-40B*-6TC		4						
VSP-C50-50B*-4TC		2.5	128.1		109	50	0.9 to 4.5	81
VSP-C50-50B*-6TC		4						

Suction pad

General/Deep/Compact

Sponge

BelloWS

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

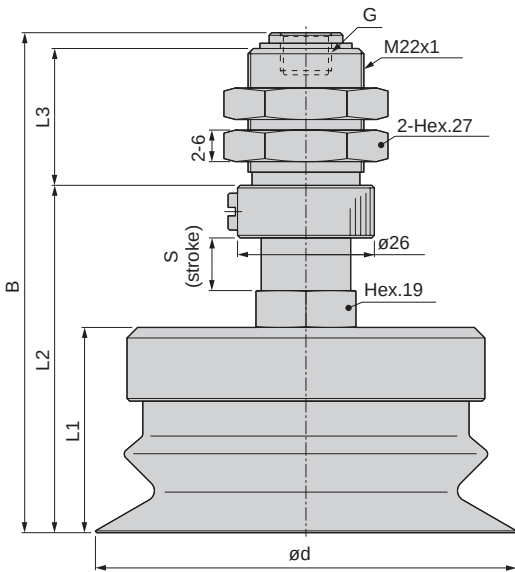
Flat

Suction mark prevention

VSP-***B*** Series

Dimensions (buffer, vacuum outlet, top, VSP-C, female thread)

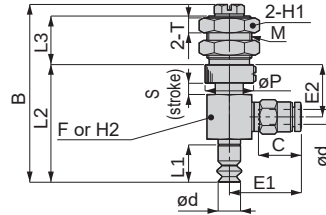
●VSP-C60 to 100B*-6A



Unit: mm

Model No.	Pad diameter ϕd	Vacuum outlet size G	B	$L1$	$L2$	$L3$	Stroke S	Spring force (N)	Weight (g)
VSP-C60B*-6A	60	G1/8	95.6	37	66.6	26	10	10.1 to 15.8	169
VSP-C80B*-6A	80	G1/8	95	39	66	26	10	10.1 to 15.8	251
VSP-C100B*-6A	100	G1/8	101	45	72	26	10	10.1 to 15.8	350

●VSP-D6, 8B*-2/4/6
●VSP-D6, 8-□B*-/4/6



Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Tube end C	E1	E2	Hexagon H1	Hexagon H2	□F	T	Stroke S	Spring force (N)	Weight (g)			
VSP-D2B*-2	2	1.8	M 8 x 0.75	42	6	26	13	10	8.4	12.7	12.5	10	-	8	2	3	0.9 to 1.9	14			
VSP-D2B*-4		4							11.2	16.8								15			
VSP-D2B*-6		6							11.9	18.6								16			
VSP-D2-10B*-2		1.8	M 12 x 1	57.6		37	17.5	13	8.4	13.7	21	14	10	-	4	10	0.6 to 1.7	30			
VSP-D2-10B*-4		4							11.2	17.8								31	15	0.4 to 1.7	31
VSP-D2-10B*-6		6							11.9	19.1								32			
VSP-D2-15B*-2		1.8			40	23.5	13	8.4	13.7	26	14	10	-	4	15	0.4 to 1.7	34				
VSP-D2-15B*-4		4						11.2	17.8								35				
VSP-D2-15B*-6		6						11.9	19.1								36				
VSP-D2-20B*-2		1.8	78.6	47	28.5	13	8.4	13.7	31	14	10	-	4	20	0.3 to 1.8	37					
VSP-D2-20B*-4		4					11.2	17.8								38					
VSP-D2-20B*-6		6					11.9	19.1								39					
VSP-D4B*-2	4	1.8	M8x0.75	42	6	26	13	10	8.4	12.7	12.5	10	-	8	2	3	0.9 to 1.9	14			
VSP-D4B*-4		4							11.2	16.8								15			
VSP-D4B*-6		6							11.9	18.6								16			
VSP-D4-10B*-2		1.8	M12x1	57.6		37	17.5	13	8.4	13.7	21	14	10	-	4	10	0.6 to 1.7	30			
VSP-D4-10B*-4		4							11.2	17.8								31	15	0.4 to 1.7	31
VSP-D4-10B*-6		6							11.9	19.1								32			
VSP-D4-15B*-2		1.8			40	23.5	13	8.4	13.7	26	14	10	-	4	15	0.4 to 1.7	34				
VSP-D4-15B*-4		4						11.2	17.8								35				
VSP-D4-15B*-6		6						11.9	19.1								36				
VSP-D4-20B*-2		1.8	78.6	47	28.5	13	8.4	13.7	31	14	10	-	4	20	0.3 to 1.8	37					
VSP-D4-20B*-4		4					11.2	17.8								38					
VSP-D4-20B*-6		6					11.9	19.1								39					
VSP-D6B*-2	6	1.8	M8x0.75	44	10	28	13	10	8.4	12.7	13	10	-	8	2	3	0.9 to 1.9	15			
VSP-D6B*-4		4							11.2	16.8								16			
VSP-D6B*-6		6							11.9	18.6								17			
VSP-D6-10B*-2		1.8	M12x1	59.1		38.5	17.5	13	8.4	14.7	21	14	12	-	4	10	0.6 to 1.7	33			
VSP-D6-10B*-4		4							11.2	18.8								34			
VSP-D6-10B*-6		6							11.9	20.1								35			
VSP-D6-15B*-2		1.8			70.1	43.5	23.5	13	8.4	14.7	26	14	12	-	4	15	0.4 to 1.7	37			
VSP-D6-15B*-4		4							11.2	18.8								38			
VSP-D6-15B*-6		6							11.9	20.1								39			
VSP-D6-20B*-2		1.8	80.1	48.5	28.5	13	8.4	14.7	31	14	12	-	4	20	0.3 to 1.8	40					
VSP-D6-20B*-4		4					11.2	18.8								41					
VSP-D6-20B*-6		6					11.9	20.1								42					
VSP-D8B*-2	8	1.8	M8x0.75	44	10	28	13	10	8.4	12.7	13	10	-	8	2	3	0.9 to 1.9	15			
VSP-D8B*-4		4							11.2	16.8								16			
VSP-D8B*-6		6							11.9	18.6								17			
VSP-D8-10B*-2		1.8	M12x1	59.1		38.5	17.5	13	8.4	14.7	21	14	12	-	4	10	0.6 to 1.7	33			
VSP-D8-10B*-4		4							11.2	18.8								34			
VSP-D8-10B*-6		6							11.9	20.1								35			
VSP-D8-15B*-2		1.8																			

action mark

VSP-*B* Series

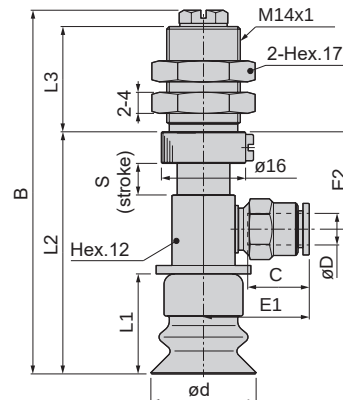
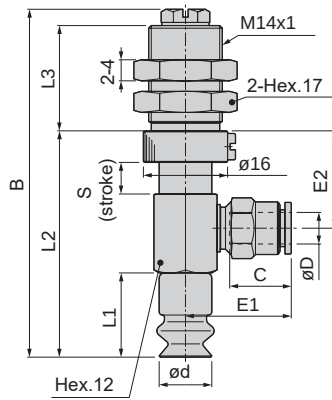
Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

●VSP-D10, 15B*-4/6

●VSP-D10, 15-□B*-4/-6

●VSP-D20 to 50B*-4/6

●VSP-D20 to 50-□B*-4/-6

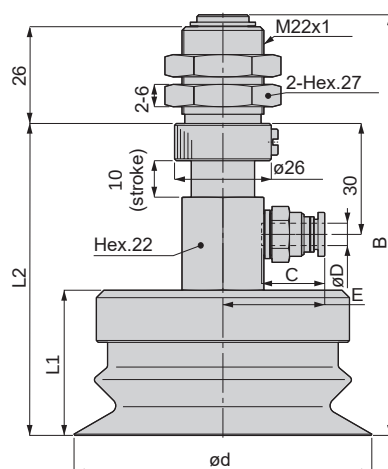


Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)		
General/Deep/ Compact	VSP-D10B*-4	10	4	66.1	16	43	20	11.2	18.8	18.5	6	4.0 to 7.1	47		
	VSP-D10B*-6		6					11.9	20.1				48		
Sponge	VSP-D10-10B*-4		4	71.1		48		25	11.2	18.8	25	10	2.0 to 5.2	50	
	VSP-D10-10B*-6		6						11.9	20.1				51	
	VSP-D10-15B*-4		4	81.1			53		25	11.2	18.8	30	15	2.0 to 5.9	56
	VSP-D10-15B*-6		6							11.9	20.1				57
Bellows	VSP-D10-20B*-4	4	97.1	60	34	11.2	18.8	37	20	1.1 to 4.8	66				
	VSP-D10-20B*-6	6				11.9	20.1				67				
	Multi-stage bellows	VSP-D15B*-4	4			66.1	16	43	20	11.2	18.8	18.5	6	4.0 to 7.1	48
		VSP-D15B*-6	6							11.9	20.1				49
VSP-D15-10B*-4		4	71.1	48	25	11.2				18.8	25	10	2.0 to 5.2	51	
VSP-D15-10B*-6		6				11.9				20.1				52	
VSP-D15-15B*-4		4	81.1			53		25	11.2	18.8	30	15	2.0 to 5.9	56	
VSP-D15-15B*-6		6							11.9	20.1				57	
VSP-D15-20B*-4		4	97.1	60	34				11.2	18.8	37	20	1.1 to 4.8	67	
VSP-D15-20B*-6		6							11.9	20.1				68	
Oval	VSP-D20B*-4	4	69.1			19	46	20	11.2	18.8	18.5	6	7.0 to 12.6	51	
	VSP-D20B*-6	6							11.9	20.1				52	
	VSP-D20-10B*-4	4		75.1	52				25	11.2	18.8	24.5	10	3.3 to 10.0	54
	VSP-D20-10B*-6	6								11.9	20.1				55
Soft	VSP-D20-15B*-4	4	85.1	57			25	11.2		18.8	29.5	15	3.3 to 10.4	61	
	VSP-D20-15B*-6	6						11.9		20.1				62	
	VSP-D20-20B*-4	4	101.1		64			34	11.2	18.8	36.5	20	2.0 to 8.7	71	
	VSP-D20-20B*-6	6							11.9	20.1				72	
Soft bellows	VSP-D25B*-4	4	69.1	19		46	20		11.2	18.8	18.5	6	7.0 to 12.6	52	
	VSP-D25B*-6	6							11.9	20.1				53	
	VSP-D25-10B*-4	4	75.1		52			25	11.2	18.8	24.5	10	3.3 to 10.0	55	
	VSP-D25-10B*-6	6							11.9	20.1				56	
	VSP-D25-15B*-4	4	85.1			57	25		11.2	18.8	29.5	15	3.3 to 10.4	61	
	VSP-D25-15B*-6	6							11.9	20.1				62	
Anti-slip	VSP-D25-20B*-4	4	101.1		64			34	11.2	18.8	36.5	20	2.0 to 8.7	72	
	VSP-D25-20B*-6	6							11.9	20.1				73	
Anti-slip	VSP-D30B*-4	4	73.1	23		50	20		11.2	18.8	18.5	6	7.0 to 12.6	54	
	VSP-D30B*-6	6							11.9	20.1				55	
Thin object	VSP-D30-10B*-4	4	79.1		56			25	11.2	18.8	24.5	10	3.3 to 10.0	58	
	VSP-D30-10B*-6	6							11.9	20.1				59	
	VSP-D30-15B*-4	4	89.1			61	25		11.2	18.8	29.5	15	3.3 to 10.4	64	
	VSP-D30-15B*-6	6							11.9	20.1				65	
	VSP-D30-20B*-4	4	105.1		68			34	11.2	18.8	36.5	20	2.0 to 8.7	74	
	VSP-D30-20B*-6	6							11.9	20.1				75	
Flat	VSP-D40B*-4	4	80.1	30		57	20		11.2	18.8	18.5	6	7.0 to 12.6	63	
	VSP-D40B*-6	6							11.9	20.1				64	
	VSP-D40-10B*-4	4	86.1		63			25	11.2	18.8	24.5	10	3.3 to 10.0	58	
	VSP-D40-10B*-6	6							11.9	20.1				59	
Suction mark prevention	VSP-D40-15B*-4	4	96.1			68	25		11.2	18.8	29.5	15	3.3 to 10.4	64	
	VSP-D40-15B*-6	6							11.9	20.1				65	
	VSP-D40-20B*-4	4	112.1		75			34	11.2	18.8	36.5	20	2.0 to 8.7	74	
	VSP-D40-20B*-6	6							11.9	20.1				75	
	Suction mark prevention	VSP-D50B*-4	4	82.1		32	59		20	11.2	18.8	18.5	6	7.0 to 12.6	69
		VSP-D50B*-6	6							11.9	20.1				70
VSP-D50-10B*-4		4	88.1	65	25			11.2		18.8	24.5	10	3.3 to 10.0	72	
VSP-D50-10B*-6		6						11.9		20.1				73	
VSP-D50-15B*-4		4	98.1				70	25	11.2	18.8	29.5	15	3.3 to 10.4	79	
VSP-D50-15B*-6		6							11.9	20.1				80	
VSP-D50-20B*-4		4	114.1	77	34				11.2	18.8	36.5	20	2.0 to 8.7	89	
VSP-D50-20B*-6		6							11.9	20.1				90	

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

●VSP-D60 to 100B*-4/6/8



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-D60B*-4	60	4	113.6	37	84.6	11.2	21.5	10	10.1 to 15.8	259
VSP-D60B*-6		6				11.9	23.7			260
VSP-D60B*-8		8				18.2	32.1			265
VSP-D80B*-4	80	4	113	39	84	11.2	21.5	10	10.1 to 15.8	342
VSP-D80B*-6		6				11.9	23.7			343
VSP-D80B*-8		8				18.2	32.1			348
VSP-D100B*-4	100	4	119	45	90	11.2	21.5	10	10.1 to 15.8	441
VSP-D100B*-6		6				11.9	23.7			442
VSP-D100B*-8		8				18.2	32.1			447

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

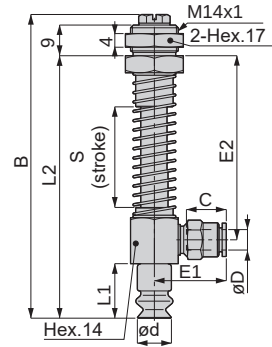
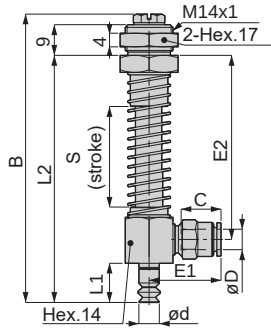
Suction mark
prevention

VSP-*B* Series

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D6, 8-□B*-4C/6C

●VSP-D10, 15-□B*-4C/6C

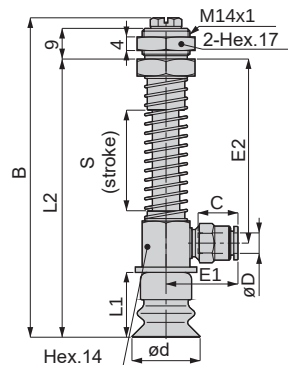


Unit: mm

Unit: mm													
	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)	
General/Deep/ Compact	VSP-D6-20B*-4C	6	4	70.1	10	58	11.2	19.8	40.5	20	1.5 to 4.9	62	
Sponge	VSP-D6-20B*-6C		6				83.1	21.1				63	
	VSP-D6-30B*-4C		4	71		11.2	19.8	53.5	30	1.1 to 4.8	68		
	VSP-D6-30B*-6C		6			109.1	21.1				69		
Bellows	VSP-D6-40B*-4C		4	96.1		84	11.2	19.8	66.5	40	1.0 to 4.5	75	
	VSP-D6-40B*-6C		6				83.1	21.1				76	
	VSP-D6-50B*-4C		4	109.1		97	11.2	19.8	79.5	50	0.9 to 4.5	82	
	VSP-D6-50B*-6C		6				109.1	21.1				83	
Multi-stage bellows	VSP-D8-20B*-4C	8	4	70.1	10	58	11.2	19.8	40.5	20	1.5 to 4.9	62	
	VSP-D8-20B*-6C		6				89.1	21.1				63	
Oval	VSP-D8-30B*-4C		4	83.1		71	11.2	19.8	53.5	30	1.1 to 4.8	68	
	VSP-D8-30B*-6C		6				115.1	21.1				69	
	Soft		VSP-D8-40B*-4C	4		96.1	84	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D8-40B*-6C			6	89.1				21.1	76				
Soft bellows			VSP-D8-50B*-4C	4		109.1	97	11.2	19.8	79.5	50	0.9 to 4.5	82
			VSP-D8-50B*-6C	6				115.1	21.1				83
Anti-slip	VSP-D10-20B*-4C	10	4	76.1	16	64	11.2	19.8	40.5	20	1.5 to 4.9	69	
	VSP-D10-20B*-6C		6				11.9	21.1				70	
	Thin object		VSP-D10-30B*-4C	4		89.1	77	11.2	19.8	53.5	30	1.1 to 4.8	75
			VSP-D10-30B*-6C	6				11.9	21.1				76
Flat	VSP-D10-40B*-4C		4	102.1		90	11.2	19.8	66.5	40	1.0 to 4.5	82	
	VSP-D10-40B*-6C		6				11.9	21.1				83	
	Suction mark prevention		VSP-D10-50B*-4C	4		115.1	103	11.2	19.8	79.5	50	0.9 to 4.5	89
			VSP-D10-50B*-6C	6				11.9	21.1				90
Thin object	VSP-D15-20B*-4C	15	4	76.1	16	64	11.2	19.8	40.5	20	1.5 to 4.9	69	
	VSP-D15-20B*-6C		6				11.9	21.1				70	
Flat	VSP-D15-30B*-4C		4	89.1		77	11.2	19.8	53.5	30	1.1 to 4.8	75	
	VSP-D15-30B*-6C		6				11.9	21.1				76	
	Suction mark prevention		VSP-D15-40B*-4C	4		102.1	90	11.2	19.8	66.5	40	1.0 to 4.5	82
VSP-D15-40B*-6C			6	11.9				21.1	83				
Suction mark prevention			VSP-D15-50B*-4C	4		115.1	103	11.2	19.8	79.5	50	0.9 to 4.5	89
			VSP-D15-50B*-6C	6				11.9	21.1				90

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D20 to 50-□B*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D20-20B*-4C	20	4	80.6	19	68.5	11.2	19.8	41	20	1.5 to 4.9	70
VSP-D20-20B*-6C		6				11.9	21.1				71
VSP-D20-30B*-4C		4	93.6		81.5	11.2	19.8	54	30	1.1 to 4.8	77
VSP-D20-30B*-6C		6				11.9	21.1				78
VSP-D20-40B*-4C		4	106.6		94.5	11.2	19.8	67	40	1.0 to 4.5	82
VSP-D20-40B*-6C		6				11.9	21.1				83
VSP-D20-50B*-4C		4	119.6		107.5	11.2	19.8	80	50	0.9 to 4.5	90
VSP-D20-50B*-6C		6				11.9	21.1				91
VSP-D25-20B*-4C	25	4	80.6	19	68.5	11.2	19.8	41	20	1.5 to 4.9	71
VSP-D25-20B*-6C		6				11.9	21.1				72
VSP-D25-30B*-4C		4	93.6		81.5	11.2	19.8	54	30	1.1 to 4.8	78
VSP-D25-30B*-6C		6				11.9	21.1				79
VSP-D25-40B*-4C		4	106.6		94.5	11.2	19.8	67	40	1.0 to 4.5	83
VSP-D25-40B*-6C		6				11.9	21.1				84
VSP-D25-50B*-4C		4	119.6		107.5	11.2	19.8	80	50	0.9 to 4.5	91
VSP-D25-50B*-6C		6				11.9	21.1				92
VSP-D30-20B*-4C	30	4	84.6	23	72.5	11.2	19.8	41	20	1.5 to 4.9	75
VSP-D30-20B*-6C		6				11.9	21.1				76
VSP-D30-30B*-4C		4	97.6		85.5	11.2	19.8	54	30	1.1 to 4.8	82
VSP-D30-30B*-6C		6				11.9	21.1				83
VSP-D30-40B*-4C		4	110.6		98.5	11.2	19.8	67	40	1.0 to 4.5	87
VSP-D30-40B*-6C		6				11.9	21.1				88
VSP-D30-50B*-4C		4	123.6		111.5	11.2	19.8	80	50	0.9 to 4.5	95
VSP-D30-50B*-6C		6				11.9	21.1				96
VSP-D40-20B*-4C	40	4	91.6	30	79.5	11.2	19.8	41	20	1.5 to 4.9	86
VSP-D40-20B*-6C		6				11.9	21.1				87
VSP-D40-30B*-4C		4	104.6		92.5	11.2	19.8	54	30	1.1 to 4.8	93
VSP-D40-30B*-6C		6				11.9	21.1				94
VSP-D40-40B*-4C		4	117.6		105.5	11.2	19.8	67	40	1.0 to 4.5	100
VSP-D40-40B*-6C		6				11.9	21.1				101
VSP-D40-50B*-4C		4	130.6		118.5	11.2	19.8	80	50	0.9 to 4.5	107
VSP-D40-50B*-6C		6				11.9	21.1				108
VSP-D50-20B*-4C	50	4	93.6	32	81.5	11.2	19.8	41	20	1.5 to 4.9	92
VSP-D50-20B*-6C		6				11.9	21.1				93
VSP-D50-30B*-4C		4	106.6		94.5	11.2	19.8	54	30	1.1 to 4.8	100
VSP-D50-30B*-6C		6				11.9	21.1				101
VSP-D50-40B*-4C		4	119.6		107.5	11.2	19.8	67	40	1.0 to 4.5	107
VSP-D50-40B*-6C		6				11.9	21.1				108
VSP-D50-50B*-4C		4	132.6		120.5	11.2	19.8	80	50	0.9 to 4.5	114
VSP-D50-50B*-6C		6				11.9	21.1				115

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

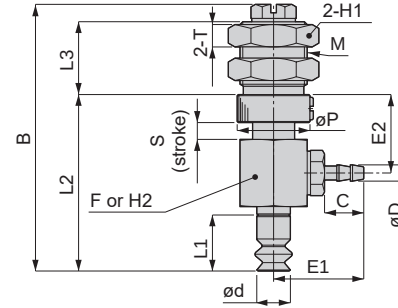
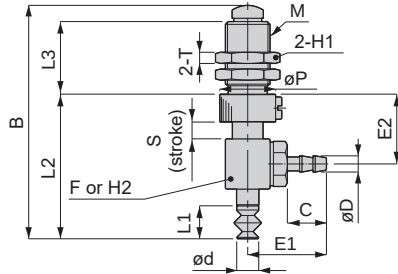
Suction mark
prevention

VSP-*B* Series

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

- VSP-D2, 4B*-4T/6T
- VSP-D2, 4-□B-4T/6T

- VSP-D6, 8B*-4T/6T
- VSP-D6, 8-□B-4T/6T



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	E1	E2	H1 HEX	H2 HEX	□F	T	Stroke S	Spring force (N)	Weight (g)			
General/Deep/Compact	VSP-D2B*-4T	2	2.5	M8x0.75	42	6	26	13	10	13.9	12.5	10	-	8	2	3	0.9 to 1.9	12			
Sponge	VSP-D2B*-6T		4																		
	VSP-D2-10B*-4T		2.5	M12x1	57.6		37	17.5	13	14.9	21	14	10	-	4	10	0.6 to 1.7	27			
Bellows	VSP-D2-10B*-6T		4								68.6								42	23.5	26
	VSP-D2-15B*-4T		2.5		78.6		47	28.5				31	20	0.3 to 1.8	35						
	VSP-D2-15B*-6T		4																		
	VSP-D2-20B*-4T		2.5																		
VSP-D2-20B*-6T	4																				
Multi-stage bellows	VSP-D4B*-4T	4	2.5	M8x0.75	42	6	26	13	10	13.9	12.5	10	-	8	2	3	0.9 to 1.9	12			
	VSP-D4B*-6T		4																		
Oval	VSP-D4-10B*-4T		2.5	M12x1	57.6		37	17.5	13	14.9	21	14	10	-	4	10	0.6 to 1.7	27			
	VSP-D4-10B*-6T		4								68.6								42	23.5	26
Soft	VSP-D4-15B*-4T		2.5		78.6		47	28.5				31	20	0.3 to 1.8	35						
	VSP-D4-15B*-6T		4																		
Soft bellows	VSP-D6B*-4T		6		2.5		M8x0.75	44	10	28	13	10	13.9	13	10	-	8	2	3	0.9 to 1.9	13
	VSP-D6B*-6T				4																
Anti-slip	VSP-D6-10B*-4T	2.5		M12x1	59.1	38.5	17.5	13		15.9	21	14	12	-	4	10	0.6 to 1.7	32			
	VSP-D6-10B*-6T	4									70.1								43.5	23.5	26
Thin object	VSP-D6-15B*-4T	2.5			80.1	48.5	28.5					31	20	0.3 to 1.8	39						
	VSP-D6-15B*-6T	4																			
Flat	VSP-D8B*-4T	8			2.5	M8x0.75	44	10		28	13	10	13.9	13	10	-	8	2	3	0.9 to 1.9	13
	VSP-D8B*-6T				4																
Suction mark prevention	VSP-D8-10B*-4T		2.5	M12x1	59.1	38.5	17.5		13	15.9	21	14	12	-	4	10	0.6 to 1.7	32			
	VSP-D8-10B*-6T		4								70.1								43.5	23.5	26
VSP-D8-15B*-4T	2.5		80.1		48.5	28.5	31					20	0.3 to 1.8	39							
VSP-D8-15B*-6T	4																				
VSP-D8-20B*-4T	2.5																				
VSP-D8-20B*-6T	4																				

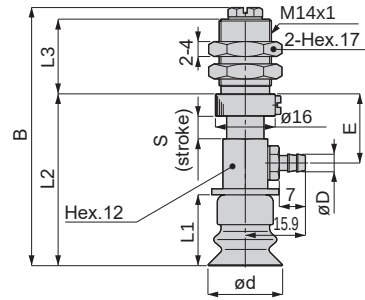
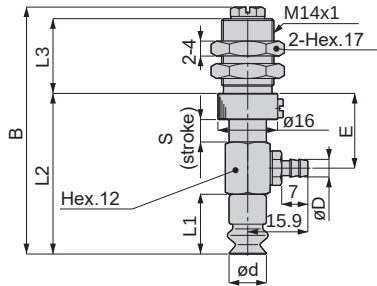
Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

●VSP-D10, 5B*-4T/6T

●VSP-D10, 15-□B*-4T/6T

●VSP-D20 to 50B*-4T/6T

●VSP-D20 to 50-□B*-4T/6T



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D10B*-4T	10	2.5	66.1	16	43	20	18.5	6	4.0 to 7.1	47
VSP-D10B*-6T		4								
VSP-D10-10B*-4T		2.5								
VSP-D10-10B*-6T		4			48	25	25	10	2.0 to 5.2	50
VSP-D10-15B*-4T		2.5								
VSP-D10-15B*-6T		4								
VSP-D10-20B*-4T	15	2.5	81.1	16	53	25	30	15	2.0 to 5.9	55
VSP-D10-20B*-6T		4								
VSP-D15B*-4T		2.5			60	34	37	20	1.1 to 4.8	66
VSP-D15B*-6T		4								
VSP-D15-10B*-4T		2.5								
VSP-D15-10B*-6T		4								
VSP-D15-15B*-4T	20	2.5	97.1	19	53	25	30	15	2.0 to 5.9	55
VSP-D15-15B*-6T		4								
VSP-D15-20B*-4T		2.5			60	34	37	20	1.1 to 4.8	66
VSP-D15-20B*-6T		4								
VSP-D20B*-4T	25	2.5	69.1	19	46	20	18.5	6	7.0 to 12.6	50
VSP-D20B*-6T		4								
VSP-D20-10B*-4T		2.5			52	25	24.5	10	3.3 to 10.0	54
VSP-D20-10B*-6T		4								
VSP-D20-15B*-4T		2.5			57	34	29.5	15	3.3 to 10.4	61
VSP-D20-15B*-6T		4								
VSP-D20-20B*-4T	30	2.5	101.1	23	64	25	36.5	20	2.0 to 8.7	71
VSP-D20-20B*-6T		4								
VSP-D25B*-4T		2.5			50	20	18.5	6	7.0 to 12.6	53
VSP-D25B*-6T		4								
VSP-D25-10B*-4T		2.5			56	25	24.5	10	3.3 to 10.0	55
VSP-D25-10B*-6T		4								
VSP-D25-15B*-4T	40	2.5	89.1	30	61	34	29.5	15	3.3 to 10.4	62
VSP-D25-15B*-6T		4								
VSP-D25-20B*-4T		2.5			68	25	36.5	20	2.0 to 8.7	72
VSP-D25-20B*-6T		4								
VSP-D30B*-4T	50	2.5	80.1	32	57	20	18.5	6	7.0 to 12.6	59
VSP-D30B*-6T		4								
VSP-D30-10B*-4T		2.5			63	25	24.5	10	3.3 to 10.0	66
VSP-D30-10B*-6T		4								
VSP-D30-15B*-4T		2.5			68	34	29.5	15	3.3 to 10.4	72
VSP-D30-15B*-6T		4								
VSP-D30-20B*-4T	50	2.5	112.1	32	75	25	36.5	20	2.0 to 8.7	82
VSP-D30-20B*-6T		4								
VSP-D50B*-4T		2.5			59	20	18.5	6	7.0 to 12.6	68
VSP-D50B*-6T		4								
VSP-D50-10B*-4T		2.5			65	25	24.5	10	3.3 to 10.0	72
VSP-D50-10B*-6T		4								
VSP-D50-15B*-4T	50	2.5	98.1	32	70	34	29.5	15	3.3 to 10.4	78
VSP-D50-15B*-6T		4								
VSP-D50-20B*-4T		2.5			77	34	36.5	20	2.0 to 8.7	88
VSP-D50-20B*-6T		4								

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

Flat

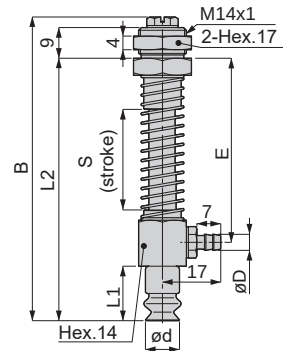
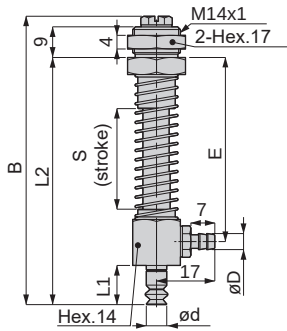
Suction mark
prevention

VSP-*B* Series

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D6, 8-□B*-4TC/6TC

●VSP-D10, 5-□B*-4TC/6TC

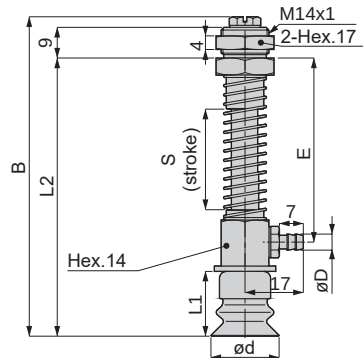


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D6-20B*-4TC	6	2.5	70.1	10	58	40.5	20	1.5 to 4.9	60
VSP-D6-20B*-6TC		4							
VSP-D6-30B*-4TC		2.5	83.1		71	53.5	30	1.1 to 4.8	
VSP-D6-30B*-6TC		4							
VSP-D6-40B*-4TC		2.5	96.1		84	66.5	40	1.0 to 4.5	
VSP-D6-40B*-6TC		4							
VSP-D6-50B*-4TC		2.5	109.1		97	79.5	50	0.9 to 4.5	
VSP-D6-50B*-6TC		4							
VSP-D8-20B*-4TC	8	2.5	70.1	10	58	40.5	20	1.5 to 4.9	60
VSP-D8-20B*-6TC		4							
VSP-D8-30B*-4TC		2.5	83.1		71	53.5	30	1.1 to 4.8	
VSP-D8-30B*-6TC		4							
VSP-D8-40B*-4TC		2.5	96.1		84	66.5	40	1.0 to 4.5	
VSP-D8-40B*-6TC		4							
VSP-D8-50B*-4TC		2.5	109.1		97	79.5	50	0.9 to 4.5	
VSP-D8-50B*-6TC		4							
VSP-D10-20B*-4TC	10	2.5	76.1	16	64	40.5	20	1.5 to 4.9	60
VSP-D10-20B*-6TC		4							
VSP-D10-30B*-4TC		2.5	89.1		77	53.5	30	1.1 to 4.8	
VSP-D10-30B*-6TC		4							
VSP-D10-40B*-4TC		2.5	102.1		90	66.5	40	1.0 to 4.5	
VSP-D10-40B*-6TC		4							
VSP-D10-50B*-4TC		2.5	115.1		103	79.5	50	0.9 to 4.5	
VSP-D10-50B*-6TC		4							
VSP-D15-20B*-4TC	15	2.5	76.1	16	64	40.5	20	1.5 to 4.9	61
VSP-D15-20B*-6TC		4							
VSP-D15-30B*-4TC		2.5	89.1		77	53.5	30	1.1 to 4.8	
VSP-D15-30B*-6TC		4							
VSP-D15-40B*-4TC		2.5	102.1		90	66.5	40	1.0 to 4.5	
VSP-D15-40B*-6TC		4							
VSP-D15-50B*-4TC		2.5	115.1		103	79.5	50	0.9 to 4.5	
VSP-D15-50B*-6TC		4							

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D20 to 50-□B*-4TC/6TC



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D20-20B*-4TC	20	4	80.6	19	68.5	41	20	1.5 to 4.9	68
VSP-D20-20B*-6TC		6							
VSP-D20-30B*-4TC		4	93.6		81.5	54	30	1.1 to 4.8	75
VSP-D20-30B*-6TC		6							
VSP-D20-40B*-4TC		4	106.6		94.5	67	40	1.0 to 4.5	81
VSP-D20-40B*-6TC		6							
VSP-D20-50B*-4TC		4	119.6		107.5	80	50	0.9 to 4.5	88
VSP-D20-50B*-6TC		6							
VSP-D25-20B*-4TC	25	4	80.6	19	68.5	41	20	1.5 to 4.9	68
VSP-D25-20B*-6TC		6							
VSP-D25-30B*-4TC		4	93.6		81.5	54	30	1.1 to 4.8	75
VSP-D25-30B*-6TC		6							
VSP-D25-40B*-4TC		4	106.6		94.5	67	40	1.0 to 4.5	82
VSP-D25-40B*-6TC		6							
VSP-D25-50B*-4TC		4	119.6		107.5	80	50	0.9 to 4.5	89
VSP-D25-50B*-6TC		6							
VSP-D30-20B*-4TC	30	4	84.6	23	72.5	41	20	1.5 to 4.9	70
VSP-D30-20B*-6TC		6							
VSP-D30-30B*-4TC		4	97.6		85.5	54	30	1.1 to 4.8	77
VSP-D30-30B*-6TC		6							
VSP-D30-40B*-4TC		4	110.6		98.5	67	40	1.0 to 4.5	83
VSP-D30-40B*-6TC		6							
VSP-D30-50B*-4TC		4	123.6		111.5	80	50	0.9 to 4.5	90
VSP-D30-50B*-6TC		6							
VSP-D40-20B*-4TC	40	4	91.6	30	79.5	41	20	1.5 to 4.9	80
VSP-D40-20B*-6TC		6							
VSP-D40-30B*-4TC		4	104.6		92.5	54	30	1.1 to 4.8	87
VSP-D40-30B*-6TC		6							
VSP-D40-40B*-4TC		4	117.6		105.5	67	40	1.0 to 4.5	94
VSP-D40-40B*-6TC		6							
VSP-D40-50B*-4TC		4	130.6		118.5	80	50	0.9 to 4.5	100
VSP-D40-50B*-6TC		6							
VSP-D50-20B*-4TC	50	4	93.6	32	81.5	41	20	1.5 to 4.9	86
VSP-D50-20B*-6TC		6							
VSP-D50-30B*-4TC		4	106.6		94.5	54	30	1.1 to 4.8	93
VSP-D50-30B*-6TC		6							
VSP-D50-40B*-4TC		4	119.6		107.5	67	40	1.0 to 4.5	99
VSP-D50-40B*-6TC		6							
VSP-D50-50B*-4TC		4	132.6		120.5	80	50	0.9 to 4.5	106
VSP-D50-50B*-6TC		6							

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

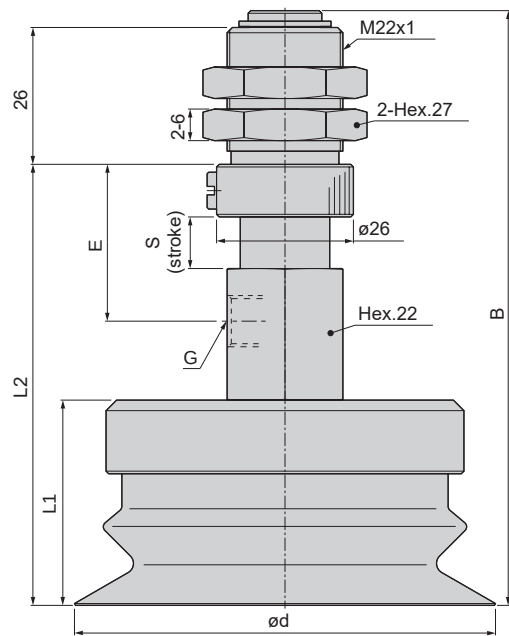
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, female thread)

●VSP-D60 to 100B*-6A



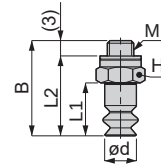
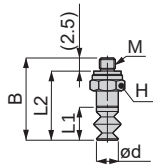
Unit: mm

Model No.	Pad diameter ød	Vacuum outlet size G	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-D60B*-6A	60	G1/8	113.6	37	84.6	10	10.1 to 15.8	251
VSP-D80B*-6A	80	G1/8	113	39	84	10	10.1 to 15.8	334
VSP-D100B*-6A	100	G1/8	119	45	90	10	10.1 to 15.8	433

Dimensions (fixed, direct mounting, VSP-E, male thread)

●VSP-E2, 4B*

●VSP-E6, 8B*



Unit: mm

Model No.	Pad diameter ød	M	B	L1	L2	Hexagon H	Weight (g)
VSP-E2B*	2	M3x0.5	15	6	12.5	5.5	1.8
VSP-E4B*	4	M3x0.5	15	6	12.5	5.5	1.8
VSP-E6B*	6	M5x0.8	18	10	15	8	3.2
VSP-E8B*	8	M5x0.8	18	10	15	8	3.2

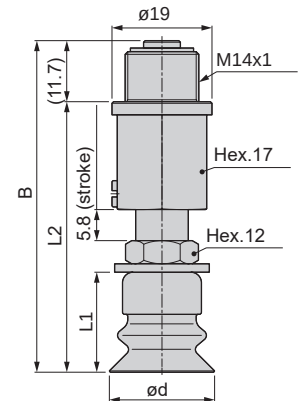
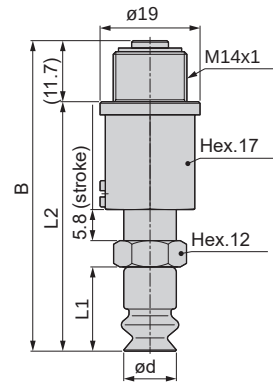
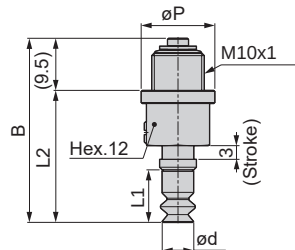
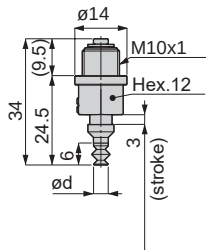
Dimensions (buffer, direct mounting, VSP-F, male thread)

●VSP-F2, 4B*

●VSP-F6, 8B*

●VSP-F10, 15B*

●VSP-F20 to 50B*



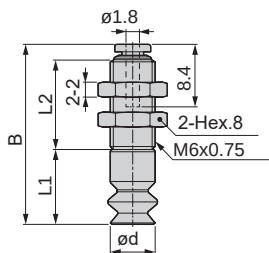
Unit: mm

Model No.	Pad diameter ød	B	L1	L2	Spring force (N)	Weight (g)
VSP-F2B*	2	34	6	24.5	2.3 to 3.9	16
VSP-F4B*	4	34	6	24.5	2.3 to 3.9	16
VSP-F6B*	6	35	10	25.5	2.3 to 3.9	16
VSP-F8B*	8	35	10	25.5	2.3 to 3.9	16
VSP-F10B*	10	59	16	47.3	7.9 to 15	58
VSP-F15B*	15	59	16	47.3	7.9 to 15	58
VSP-F20B*	20	63	19	51.3	7.9 to 15	62
VSP-F25B*	25	63	19	51.3	7.9 to 15	62
VSP-F30B*	30	67	23	55.3	7.9 to 15	63
VSP-F40B*	40	74	30	62.3	7.9 to 15	70
VSP-F50B*	50	76	32	64.3	7.9 to 15	76

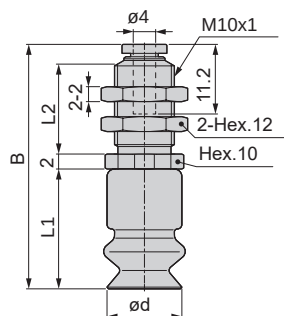
VSP-*B* Series

Dimensions (compact, fixed, vacuum outlet, top, VSP-MA, push-in fitting)

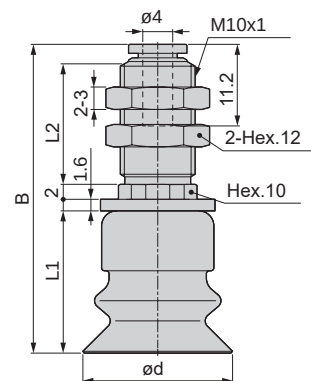
●VSP-MA6, 8B*-2



●VSP-MA10, 15B*-4



●VSP-MA20 to 50B*-4

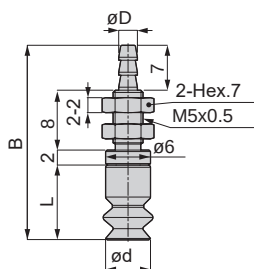


Unit: mm

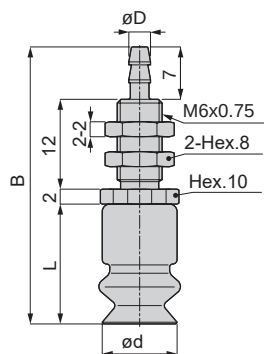
Model No.	Pad diameter ød	B	L1	L2	Weight (g)
VSP-MA6B*-2	6	24.1	10	12	2.5
VSP-MA8B*-2	8	24.1	10	12	2.5
VSP-MA10B*-4	10	37	16	16.4	6.6
VSP-MA15B*-4	15	37	16	16.4	7.1
VSP-MA20B*-4	20	41.6	19	16.4	12
VSP-MA25B*-4	25	41.6	19	16.4	13
VSP-MA30B*-4	30	45.6	23	16.4	16
VSP-MA40B*-4	40	52.6	30	16.4	24
VSP-MA50B*-4	50	54.6	32	16.4	30

Dimensions (compact, fixed, vacuum outlet, top, VSP-MA, barbed fitting)

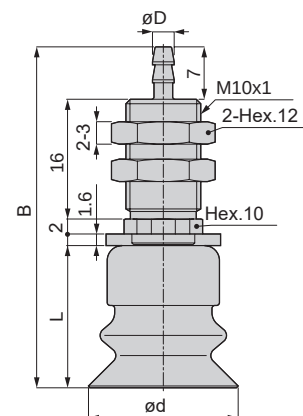
●VSP-MA6, 8B*-4T



●VSP-MA10, 15B*-4T



●VSP-MA20 to 50B*-4T/6T



Unit: mm

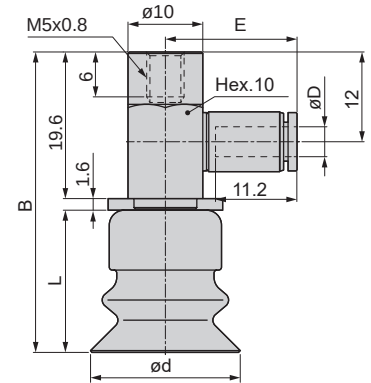
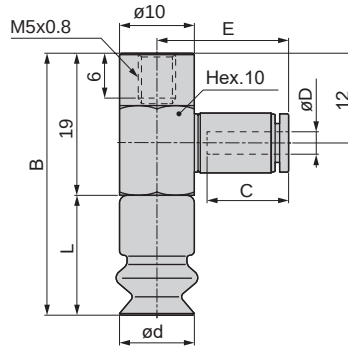
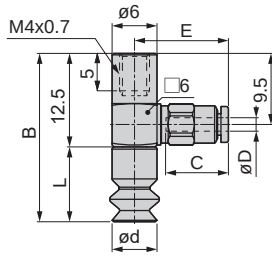
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MA6B*-4T	6	2.5	27	10	2.1
VSP-MA8B*-4T	8	2.5	27	10	2.1
VSP-MA10B*-4T	10	2.5	37	16	3.8
VSP-MA15B*-4T	15	2.5	37	16	4.3
VSP-MA20B*-4T	20	2.5	45.6	19	12
VSP-MA20B*-6T	20	4	45.6	19	12
VSP-MA25B*-4T	25	2.5	45.6	19	13
VSP-MA25B*-6T	25	4	45.6	19	13
VSP-MA30B*-4T	30	2.5	49.6	23	16
VSP-MA30B*-6T	30	4	49.6	23	16
VSP-MA40B*-4T	40	2.5	56.6	30	23
VSP-MA40B*-6T	40	4	56.6	30	23
VSP-MA50B*-4T	50	2.5	58.6	32	30
VSP-MA50B*-6T	50	4	58.6	32	30

Dimensions (compact, fixed, vacuum outlet, lateral, VSP-MB, push-in fitting)

●VSP-MB6, 8B*-2/4

●VSP-MB10, 15B*-2/4/6

●VSP-MB20 to 50B*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB6B*-2	6	1.8	22.5	10	8.4	12.5	2.5
VSP-MB6B*-4		4			11.2	15.8	4
VSP-MB8B*-2	8	1.8	22.5	10	8.4	12.5	2.5
VSP-MB8B*-4		4			11.2	15.8	4
VSP-MB10B*-2	10	1.8	35	16	8.4	13.7	7.7
VSP-MB10B*-4		4			11.2	17.8	8.4
VSP-MB10B*-6		6			11.9	19.6	9.8
VSP-MB15B*-2	15	1.8	35	16	8.4	13.7	8.2
VSP-MB15B*-4		4			11.2	17.8	8.9
VSP-MB15B*-6		6			11.9	19.6	10.3
VSP-MB20B*-2	20	1.8	40.2	19	8.4	13.7	12
VSP-MB20B*-4		4			11.2	17.8	13
VSP-MB20B*-6		6			11.9	19.6	14
VSP-MB25B*-2	25	1.8	40.2	19	8.4	13.7	13
VSP-MB25B*-4		4			11.2	17.8	14
VSP-MB25B*-6		6			11.9	19.6	15
VSP-MB30B*-2	30	1.8	44.2	23	8.4	13.7	16
VSP-MB30B*-4		4			11.2	17.8	17
VSP-MB30B*-6		6			11.9	19.6	18
VSP-MB40B*-2	40	1.8	51.2	30	8.4	13.7	23
VSP-MB40B*-4		4			11.2	17.8	24
VSP-MB40B*-6		6			11.9	19.6	25
VSP-MB50B*-2	50	1.8	53.2	32	8.4	13.7	29
VSP-MB50B*-4		4			11.2	17.8	30
VSP-MB50B*-6		6			11.9	19.6	31

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

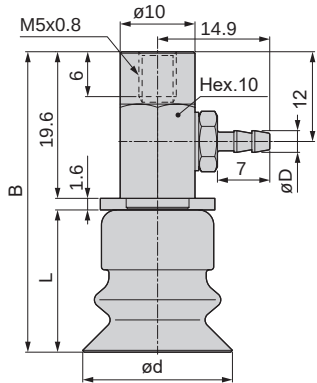
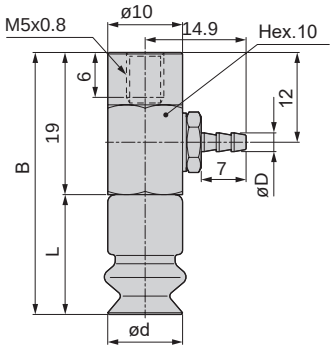
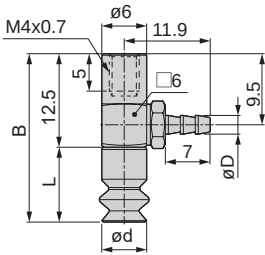
VSP-**B*** Series

Dimensions (compact, fixed, vacuum outlet, side, VSP-MB, barbed fitting)

●VSP-MB6, 8B*-4T/6T

●VSP-MB10, 15B*-4T/6T

●VSP-MB20 to 50B*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB6B*-4T	6	2.5	22.5	10	2.6
VSP-MB6B*-6T		4			
VSP-MB8B*-4T	8	2.5	22.5	10	2.6
VSP-MB8B*-6T		4			
VSP-MB10B*-4T	10	2.5	35	16	7.2
VSP-MB10B*-6T		4			
VSP-MB15B*-4T	15	2.5	35	16	7.7
VSP-MB15B*-6T		4			
VSP-MB20B*-4T	20	2.5	40.2	19	12
VSP-MB20B*-6T		4			
VSP-MB25B*-4T	25	2.5	40.2	19	13
VSP-MB25B*-6T		4			
VSP-MB30B*-4T	30	2.5	44.2	23	15
VSP-MB30B*-6T		4			
VSP-MB40B*-4T	40	2.5	51.2	30	23
VSP-MB40B*-6T		4			
VSP-MB50B*-4T	50	2.5	53.2	32	30
VSP-MB50B*-6T		4			

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

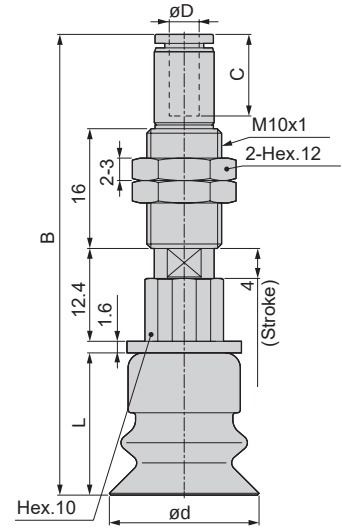
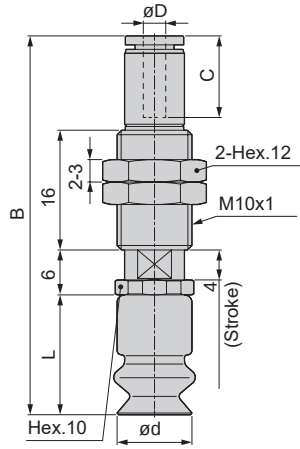
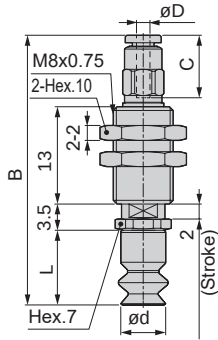
Suction mark
prevention

Dimensions (compact, buffer, vacuum outlet, top, VSP-MC, push-in fitting)

●VSP-MC6, 8B*-2

●VSP-MC10, 15B*-2/4

●VSP-MC20 to 50B*-2/4



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC6B*-2	6	1.8	36.2	10	8.4	0.2 to 0.3	7.3
VSP-MC8B*-2	8	1.8	36.2	10	8.4	0.2 to 0.3	7.3
VSP-MC10B*-2	10	1.8	46.9	16	8.4	0.5 to 0.6	15
VSP-MC10B*-4		4	51		11.2		16
VSP-MC15B*-2	15	1.8	46.9	16	8.4	0.5 to 0.6	16
VSP-MC15B*-4		4	51		11.2		17
VSP-MC20B*-2	20	1.8	57.9	19	8.4	1 to 1.3	23
VSP-MC20B*-4		4	62		11.2		24
VSP-MC25B*-2	25	1.8	57.9	19	8.4	1 to 1.3	24
VSP-MC25B*-4		4	62		11.2		25
VSP-MC30B*-2	30	1.8	61.9	23	8.4	1 to 1.3	27
VSP-MC30B*-4		4	66		11.2		28
VSP-MC40B*-2	40	1.8	68.9	30	8.4	1 to 1.3	34
VSP-MC40B*-4		4	73		11.2		35
VSP-MC50B*-2	50	1.8	70.9	32	8.4	1 to 1.3	40
VSP-MC50B*-4		4	75		11.2		41

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

Flat

Suction mark
prevention

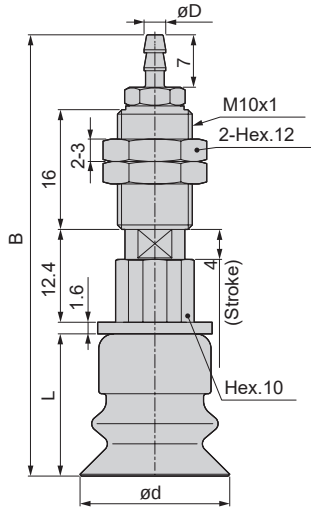
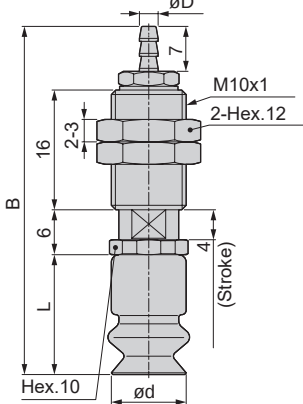
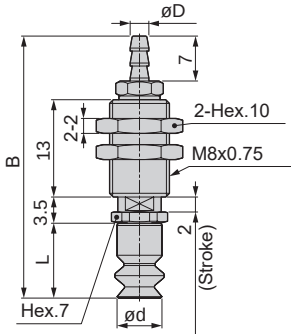
VSP-***B*** Series

Dimensions (compact, buffer, vacuum outlet, top, VSP-MC, barbed fitting)

●VSP-MC6, 8B*-4T/6T

●VSP-MC10, 15B*-4T/6T

●VSP-MC20 to 50B*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC6B*-4T	6	2.5	36.1	10	0.2 to 0.3	7.4
VSP-MC6B*-6T		4				
VSP-MC8B*-4T	8	2.5	36.1	10	0.2 to 0.3	7.4
VSP-MC8B*-6T		4				
VSP-MC10B*-4T	10	2.5	48.1	16	0.5 to 0.6	15
VSP-MC10B*-6T		4				
VSP-MC15B*-4T	15	2.5	48.1	16	0.5 to 0.6	16
VSP-MC15B*-6T		4				
VSP-MC20B*-4T	20	2.5	59.1	19	1 to 1.3	23
VSP-MC20B*-6T		4				
VSP-MC25B*-4T	25	2.5	59.1	19	1 to 1.3	24
VSP-MC25B*-6T		4				
VSP-MC30B*-4T	30	2.5	63.1	23	1 to 1.3	26
VSP-MC30B*-6T		4				
VSP-MC40B*-4T	40	2.5	70.1	30	1 to 1.3	34
VSP-MC40B*-6T		4				
VSP-MC50B*-4T	50	2.5	72.1	32	1 to 1.3	41
VSP-MC50B*-6T		4				

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

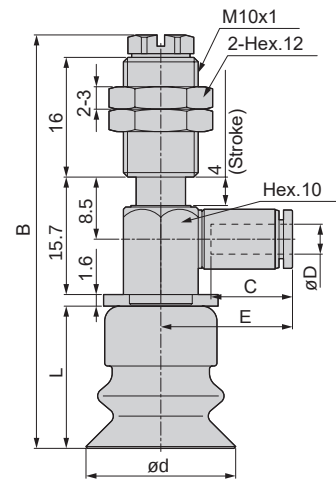
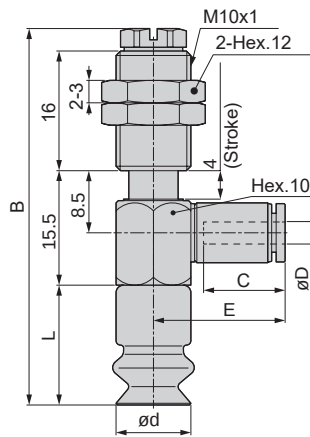
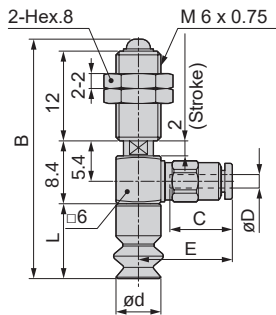
Suction mark
prevention

Dimensions (compact, buffer, vacuum outlet, lateral, VSP-MD, push-in fitting)

●VSP-MD6, 8B*-2/4

●VSP-MD10, 15B*-2/4/6

●VSP-MD20 to 50B*-2/4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD6B*-2	6	1.8	32	10	8.4	12.6	0.5 to 0.6	6.6
VSP-MD6B*-4		4			11.2	15.9		8
VSP-MD8B*-2	8	1.8	32	10	8.4	12.6	0.5 to 0.6	6.6
VSP-MD8B*-4		4			11.2	15.9		8
VSP-MD10B*-2	10	1.8	50.5	16	8.4	13.6	1 to 1.3	23
VSP-MD10B*-4		4			11.2	17.7		24
VSP-MD10B*-6		6			11.9	19.5		25
VSP-MD15B*-2	15	1.8	50.5	16	8.4	13.6	1 to 1.3	24
VSP-MD15B*-4		4			11.2	17.7		25
VSP-MD15B*-6		6			11.9	19.5		26
VSP-MD20B*-2	20	1.8	55.3	19	8.4	13.6	1 to 1.3	27
VSP-MD20B*-4		4			11.2	17.7		28
VSP-MD20B*-6		6			11.9	19.5		29
VSP-MD25B*-2	25	1.8	55.3	19	8.4	13.6	1 to 1.3	28
VSP-MD25B*-4		4			11.2	17.7		29
VSP-MD25B*-6		6			11.9	19.5		30
VSP-MD30B*-2	30	1.8	59.3	23	8.4	13.6	1 to 1.3	30
VSP-MD30B*-4		4			11.2	17.7		31
VSP-MD30B*-6		6			11.9	19.5		32
VSP-MD40B*-2	40	1.8	66.3	30	8.4	13.6	1 to 1.3	37
VSP-MD40B*-4		4			11.2	17.7		38
VSP-MD40B*-6		6			11.9	19.5		39
VSP-MD50B*-2	50	1.8	68.3	32	8.4	13.6	1 to 1.3	43
VSP-MD50B*-4		4			11.2	17.7		44
VSP-MD50B*-6		6			11.9	19.5		45

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
belloWS

Oval

Soft

Soft
belloWS

Anti-slip

Thin object

Flat

Suction mark
prevention

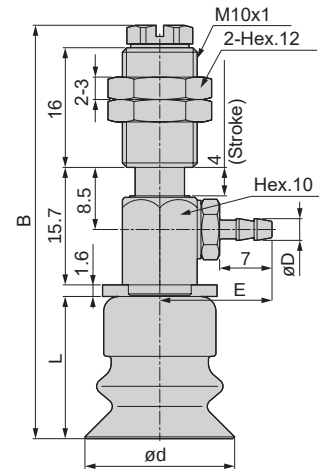
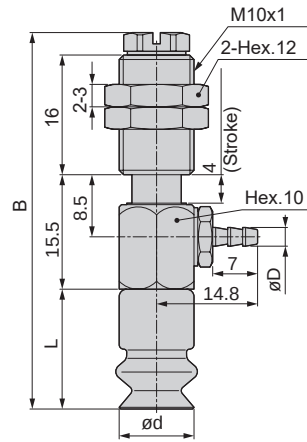
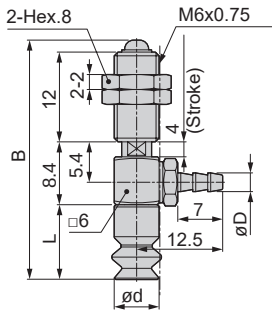
VSP-*B* Series

Dimensions (compact, buffer, vacuum outlet, side, VSP-MD, barbed fitting)

●VSP-MD6, 8B*-4T/6T

●VSP-MD10, 15B*-4T/6T

●VSP-MD20 to 50B*-4T/6T

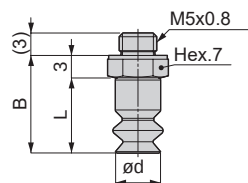


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MD6B*-4T	6	2.5	32	10	0.5 to 0.6	6.7
VSP-MD6B*-6T		4				
VSP-MD8B*-4T	8	2.5	32	10	0.5 to 0.6	6.7
VSP-MD8B*-6T		4				
VSP-MD10B*-4T	10	2.5	50.5	16	1 to 1.3	22
VSP-MD10B*-6T		4				
VSP-MD15B*-4T	15	2.5	50.5	16	1 to 1.3	23
VSP-MD15B*-6T		4				
VSP-MD20B*-4T	20	2.5	55.3	19	1 to 1.3	27
VSP-MD20B*-6T		4				
VSP-MD25B*-4T	25	2.5	55.3	19	1 to 1.3	28
VSP-MD25B*-6T		4				
VSP-MD30B*-4T	30	2.5	59.3	23	1 to 1.3	30
VSP-MD30B*-6T		4				
VSP-MD40B*-4T	40	2.5	66.3	30	1 to 1.3	38
VSP-MD40B*-6T		4				
VSP-MD50B*-4T	50	2.5	68.3	32	1 to 1.3	45
VSP-MD50B*-6T		4				

Dimensions (compact direct mounting, vacuum outlet side VSP-ME, male thread)

●VSP-ME6, 8B*-M5

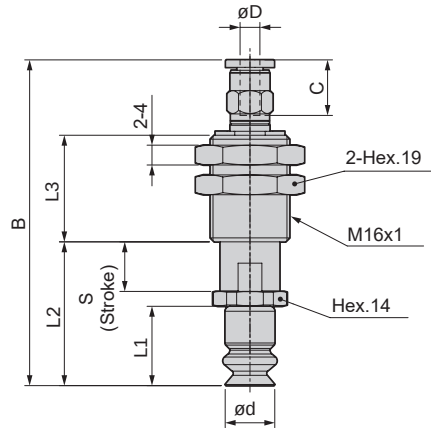


Unit: mm

Model No.	Pad diameter ød	B	L	Weight (g)
VSP-ME6B*-M5	6	10	7	2
VSP-ME8B*-M5	8	8.5	5.5	2

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC10, 15-□B*-2/4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10B*-2	10	1.8	61.6	16	29	21.5	8.4	10	1.0 to 2.4	22
VSP-HC10-10B*-4		4	65.7				11.2			23
VSP-HC10-10B*-6		6	67				11.9			24
VSP-HC10-15B*-2		1.8	71.6		34	26.5	8.4	15	1.0 to 2.7	24
VSP-HC10-15B*-4		4	75.7				11.2			25
VSP-HC10-15B*-6		6	77				11.9			26
VSP-HC10-20B*-2		1.8	81.6		39	31.5	8.4	20	1.0 to 3.0	26
VSP-HC10-20B*-4		4	85.7				11.2			27
VSP-HC10-20B*-6		6	87				11.9			28
VSP-HC10-25B*-2		1.8	92.1		44	37	8.4	25	1.0 to 3.0	28
VSP-HC10-25B*-4		4	96.2				11.2			29
VSP-HC10-25B*-6		6	97.5				11.9			30
VSP-HC10-30B*-2		1.8	103.1		49	43	8.4	30	1.0 to 3.0	30
VSP-HC10-30B*-4		4	107.2				11.2			31
VSP-HC10-30B*-6		6	108.5				11.9			32
VSP-HC10-40B*-2		1.8	125.1		59	55	8.4	40	1.0 to 3.0	34
VSP-HC10-40B*-4		4	129.2				11.2			35
VSP-HC10-40B*-6		6	130.5				11.9			36
VSP-HC10-50B*-2		1.8	146.6		69	66.5	8.4	50	1.0 to 3.1	39
VSP-HC10-50B*-4		4	150.7				11.2			40
VSP-HC10-50B*-6		6	152				11.9			41
VSP-HC15-10B*-2	15	1.8	61.6	16	29	21.5	8.4	10	1.0 to 2.4	22
VSP-HC15-10B*-4		4	65.7				11.2			23
VSP-HC15-10B*-6		6	67				11.9			24
VSP-HC15-15B*-2		1.8	71.6		34	26.5	8.4	15	1.0 to 2.7	24
VSP-HC15-15B*-4		4	75.7				11.2			25
VSP-HC15-15B*-6		6	77				11.9			26
VSP-HC15-20B*-2		1.8	81.6		39	31.5	8.4	20	1.0 to 3.0	26
VSP-HC15-20B*-4		4	85.7				11.2			27
VSP-HC15-20B*-6		6	87				11.9			28
VSP-HC15-25B*-2		1.8	92.1		44	37	8.4	25	1.0 to 3.0	28
VSP-HC15-25B*-4		4	96.2				11.2			29
VSP-HC15-25B*-6		6	97.5				11.9			30
VSP-HC15-30B*-2		1.8	103.1		49	43	8.4	30	1.0 to 3.0	30
VSP-HC15-30B*-4		4	107.2				11.2			31
VSP-HC15-30B*-6		6	108.5				11.9			32
VSP-HC15-40B*-2		1.8	125.1		59	55	8.4	40	1.0 to 3.0	34
VSP-HC15-40B*-4		4	129.2				11.2			35
VSP-HC15-40B*-6		6	130.5				11.9			36
VSP-HC15-50B*-2		1.8	146.6		69	66.5	8.4	50	1.0 to 3.1	39
VSP-HC15-50B*-4		4	150.7				11.2			40
VSP-HC15-50B*-6		6	152				11.9			41

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

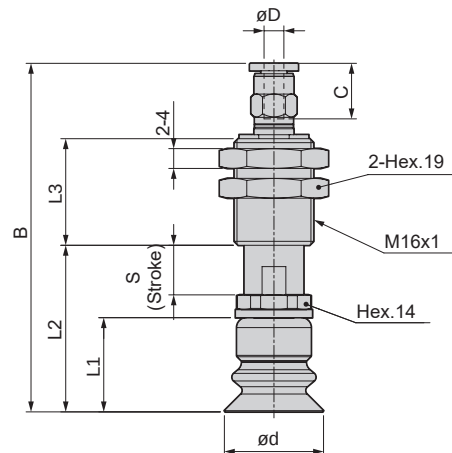
Flat

Suction mark prevention

VSP-*B* Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC20, 25-□B*-2/4/6

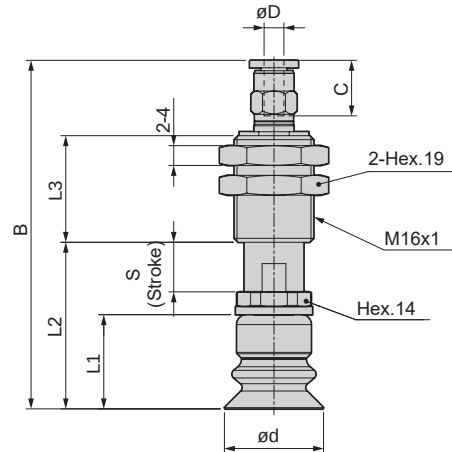


Unit: mm

	Model No.	Pad diameter ϕd	Bore size ϕD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC20-10B*-2	20	1.8	66.2	19	33.6	21.5	8.4	10	1.0 to 2.4	27
	VSP-HC20-10B*-4		4	70.3				11.2			28
	VSP-HC20-10B*-6		6	71.6				11.9			29
Sponge	VSP-HC20-15B*-2		1.8	76.2		38.6	26.5	8.4	15	1.0 to 2.7	29
	VSP-HC20-15B*-4		4	80.3				11.2			30
	VSP-HC20-15B*-6		6	81.6				11.9			31
Bellows	VSP-HC20-20B*-2		1.8	86.2		43.6	31.5	8.4	20	1.0 to 3.0	31
	VSP-HC20-20B*-4		4	90.3				11.2			32
	VSP-HC20-20B*-6		6	91.6				11.9			33
Multi-stage bellows	VSP-HC20-25B*-2		1.8	96.7		48.6	37	8.4	25	1.0 to 3.0	33
	VSP-HC20-25B*-4		4	100.8				11.2			34
	VSP-HC20-25B*-6		6	102.1				11.9			35
Oval	VSP-HC20-30B*-2		1.8	107.7		53.6	43	8.4	30	1.0 to 3.0	35
	VSP-HC20-30B*-4		4	111.8				11.2			36
	VSP-HC20-30B*-6		6	113.1				11.9			37
Soft	VSP-HC20-40B*-2		1.8	129.7		63.6	55	8.4	40	1.0 to 3.0	39
	VSP-HC20-40B*-4		4	133.8				11.2			40
	VSP-HC20-40B*-6		6	135.1				11.9			41
Soft bellows	VSP-HC20-50B*-2		1.8	151.2		73.6	66.5	8.4	50	1.0 to 3.1	43
	VSP-HC20-50B*-4		4	155.3				11.2			44
	VSP-HC20-50B*-6		6	156.6				11.9			45
Anti-slip	VSP-HC25-10B*-2	25	1.8	66.2	19	33.6	21.5	8.4	10	1.0 to 2.4	27
	VSP-HC25-10B*-4		4	70.3				11.2			28
	VSP-HC25-10B*-6		6	71.6				11.9			29
Thin object	VSP-HC25-15B*-2		1.8	76.2		38.6	26.5	8.4	15	1.0 to 2.7	29
	VSP-HC25-15B*-4		4	80.3				11.2			30
	VSP-HC25-15B*-6		6	81.6				11.9			31
Flat	VSP-HC25-20B*-2		1.8	86.2		43.6	31.5	8.4	20	1.0 to 3.0	31
	VSP-HC25-20B*-4		4	90.3				11.2			32
	VSP-HC25-20B*-6		6	91.6				11.9			33
Suction mark prevention	VSP-HC25-25B*-2		1.8	96.7		48.6	37	8.4	25	1.0 to 3.0	33
	VSP-HC25-25B*-4		4	100.8				11.2			34
	VSP-HC25-25B*-6		6	102.1				11.9			35
	VSP-HC25-30B*-2		1.8	107.7		53.6	43	8.4	30	1.0 to 3.0	35
	VSP-HC25-30B*-4		4	111.8				11.2			36
	VSP-HC25-30B*-6		6	113.1				11.9			37
	VSP-HC25-40B*-2		1.8	129.7		63.6	55	8.4	40	1.0 to 3.0	39
	VSP-HC25-40B*-4		4	133.8				11.2			40
	VSP-HC25-40B*-6		6	135.1				11.9			41
	VSP-HC25-50B*-2		1.8	151.2		73.6	66.5	8.4	50	1.0 to 3.1	43
	VSP-HC25-50B*-4		4	155.3				11.2			44
	VSP-HC25-50B*-6		6	156.6				11.9			45

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC30, 40-□B*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC30-10B*-2	30	1.8	70.2	23	37.6	21.5	8.4	10	1.0 to 2.4	30
VSP-HC30-10B*-4		4	74.3				11.2			31
VSP-HC30-10B*-6		6	75.6				11.9			32
VSP-HC30-15B*-2		1.8	80.2		42.6	26.5	8.4	15	1.0 to 2.7	32
VSP-HC30-15B*-4		4	84.3				11.2			33
VSP-HC30-15B*-6		6	85.6				11.9			34
VSP-HC30-20B*-2		1.8	90.2		47.6	31.5	8.4	20	1.0 to 3.0	34
VSP-HC30-20B*-4		4	94.3				11.2			35
VSP-HC30-20B*-6		6	95.6				11.9			36
VSP-HC30-25B*-2		1.8	100.7		52.6	37	8.4	25	1.0 to 3.0	36
VSP-HC30-25B*-4		4	104.8				11.2			37
VSP-HC30-25B*-6		6	106.1				11.9			38
VSP-HC30-30B*-2		1.8	111.7		57.6	43	8.4	30	1.0 to 3.0	38
VSP-HC30-30B*-4		4	115.8				11.2			39
VSP-HC30-30B*-6		6	117.1				11.9			40
VSP-HC30-40B*-2		1.8	133.7		67.6	55	8.4	40	1.0 to 3.0	42
VSP-HC30-40B*-4		4	137.8				11.2			43
VSP-HC30-40B*-6		6	139.1				11.9			44
VSP-HC30-50B*-2	40	1.8	155.2	30	77.6	66.5	8.4	50	1.0 to 3.1	46
VSP-HC30-50B*-4		4	159.3				11.2			47
VSP-HC30-50B*-6		6	160.6				11.9			48
VSP-HC40-10B*-2		1.8	77.2		44.6	21.5	8.4	10	1.0 to 2.4	37
VSP-HC40-10B*-4		4	81.3				11.2			38
VSP-HC40-10B*-6		6	82.6				11.9			39
VSP-HC40-15B*-2		1.8	87.2		49.6	26.5	8.4	15	1.0 to 2.7	39
VSP-HC40-15B*-4		4	91.3				11.2			40
VSP-HC40-15B*-6		6	92.6				11.9			41
VSP-HC40-20B*-2		1.8	97.2		54.6	31.5	8.4	20	1.0 to 3.0	41
VSP-HC40-20B*-4		4	101.3				11.2			42
VSP-HC40-20B*-6		6	102.6				11.9			43
VSP-HC40-25B*-2		1.8	107.7		59.6	37	8.4	25	1.0 to 3.0	43
VSP-HC40-25B*-4		4	111.8				11.2			44
VSP-HC40-25B*-6		6	113.1				11.9			45
VSP-HC40-30B*-2		1.8	118.7		64.6	43	8.4	30	1.0 to 3.0	45
VSP-HC40-30B*-4		4	122.8				11.2			46
VSP-HC40-30B*-6		6	124.1				11.9			47
VSP-HC40-40B*-2		1.8	140.7		74.6	55	8.4	40	1.0 to 3.0	49
VSP-HC40-40B*-4		4	144.8				11.2			50
VSP-HC40-40B*-6		6	146.1				11.9			51
VSP-HC40-50B*-2	40	1.8	162.2	30	84.6	66.5	8.4	50	1.0 to 3.1	53
VSP-HC40-50B*-4		4	166.3				11.2			54
VSP-HC40-50B*-6		6	167.6				11.9			55

Suction pad

General/Deep/ Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

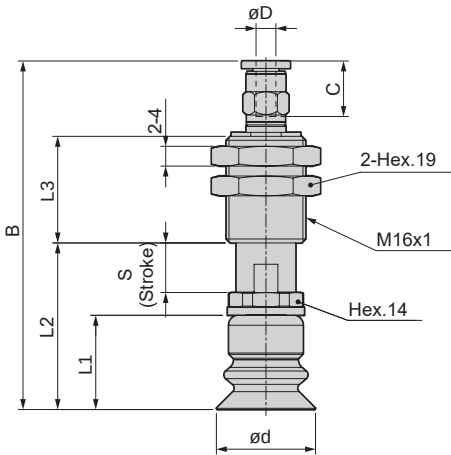
Flat

Suction mark prevention

VSP-***B*** Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC50-□B*-2/4/6

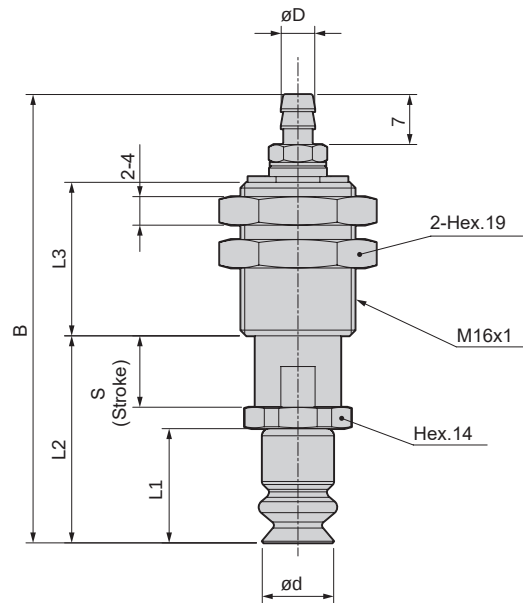


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC50-10B*-2	50	1.8	79.2	32	46.6	21.5	8.4	10	1.0 to 2.4	45
VSP-HC50-10B*-4		4	83.3				11.2			46
VSP-HC50-10B*-6		6	84.6				11.9			47
VSP-HC50-15B*-2		1.8	89.2		52.6	26.5	8.4	15	1.0 to 2.7	47
VSP-HC50-15B*-4		4	93.3				11.2			48
VSP-HC50-15B*-6		6	94.6				11.9			49
VSP-HC50-20B*-2		1.8	99.2		58.6	31.5	8.4	20	1.0 to 3.0	50
VSP-HC50-20B*-4		4	103.3				11.2			51
VSP-HC50-20B*-6		6	104.6				11.9			52
VSP-HC50-25B*-2		1.8	109.7		64.6	37	8.4	25	1.0 to 3.0	52
VSP-HC50-25B*-4		4	113.8				11.2			53
VSP-HC50-25B*-6		6	115.1				11.9			54
VSP-HC50-30B*-2		1.8	120.7		70.6	43	8.4	30	1.0 to 3.0	54
VSP-HC50-30B*-4		4	124.8				11.2			55
VSP-HC50-30B*-6		6	126.1				11.9			56
VSP-HC50-40B*-2		1.8	142.7		81.6	55	8.4	40	1.0 to 3.0	58
VSP-HC50-40B*-4		4	146.8				11.2			59
VSP-HC50-40B*-6		6	148.1				11.9			60
VSP-HC50-50B*-2		1.8	164.2		92.6	66.5	8.4	50	1.0 to 3.1	62
VSP-HC50-50B*-4		4	168.3				11.2			63
VSP-HC50-50B*-6		6	169.6				11.9			64

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC10, 15-□B*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10B*-4T	10	2.5	62.8	16	29	21.5	10	1.0 to 2.4	21
VSP-HC10-10B*-6T		4							
VSP-HC10-15B*-4T		2.5	72.8		34	26.5	15	1.0 to 2.7	23
VSP-HC10-15B*-6T		4							
VSP-HC10-20B*-4T		2.5	82.8		39	31.5	20	1.0 to 3.0	25
VSP-HC10-20B*-6T		4							
VSP-HC10-25B*-4T		2.5	93.3		44	37	25	1.0 to 3.0	28
VSP-HC10-25B*-6T		4							
VSP-HC10-30B*-4T		2.5	104.3		49	43	30	1.0 to 3.0	30
VSP-HC10-30B*-6T		4							
VSP-HC10-40B*-4T		2.5	126.3		59	55	40	1.0 to 3.0	34
VSP-HC10-40B*-6T		4							
VSP-HC10-50B*-4T		2.5	147.8		69	66.5	50	1.0 to 3.1	38
VSP-HC10-50B*-6T		4							
VSP-HC15-10B*-4T	15	2.5	62.8	16	29	21.5	10	1.0 to 2.4	21
VSP-HC15-10B*-6T		4							
VSP-HC15-15B*-4T		2.5	72.8		34	26.5	15	1.0 to 2.7	23
VSP-HC15-15B*-6T		4							
VSP-HC15-20B*-4T		2.5	82.8		39	31.5	20	1.0 to 3.0	25
VSP-HC15-20B*-6T		4							
VSP-HC15-25B*-4T		2.5	93.3		44	37	25	1.0 to 3.0	28
VSP-HC15-25B*-6T		4							
VSP-HC15-30B*-4T		2.5	104.3		49	43	30	1.0 to 3.0	30
VSP-HC15-30B*-6T		4							
VSP-HC15-40B*-4T		2.5	126.3		59	55	40	1.0 to 3.0	34
VSP-HC15-40B*-6T		4							
VSP-HC15-50B*-4T		2.5	147.8		69	66.5	50	1.0 to 3.1	38
VSP-HC15-50B*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

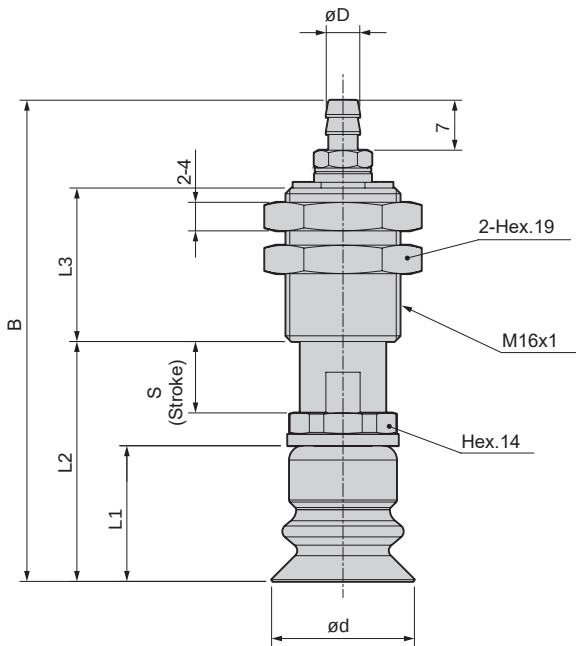
Thin object

Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC20, 25-□B*-4T/6T

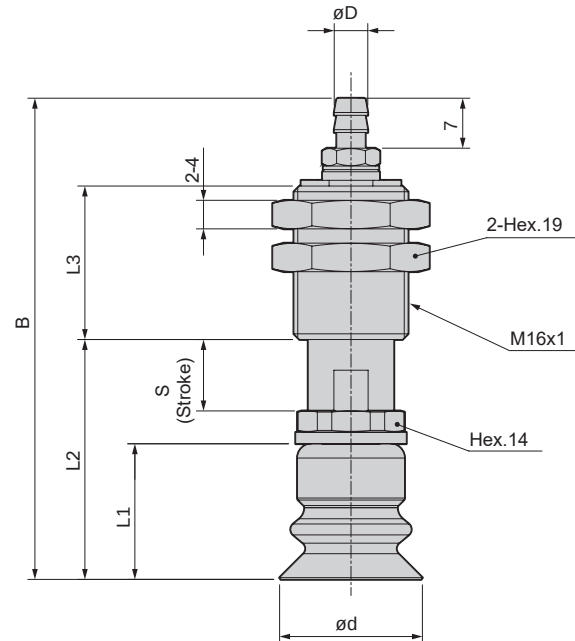


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10B*-4T	20	2.5	67.4	19	33.6	21.5	10	1.0 to 2.4	25
VSP-HC20-10B*-6T		4							
VSP-HC20-15B*-4T		2.5	77.4		38.6	26.5	15	1.0 to 2.7	27
VSP-HC20-15B*-6T		4							
VSP-HC20-20B*-4T		2.5	87.4		43.6	31.5	20	1.0 to 3.0	29
VSP-HC20-20B*-6T		4							
VSP-HC20-25B*-4T		2.5	97.9		48.6	37	25	1.0 to 3.0	31
VSP-HC20-25B*-6T		4							
VSP-HC20-30B*-4T		2.5	108.9		53.6	43	30	1.0 to 3.0	34
VSP-HC20-30B*-6T		4							
VSP-HC20-40B*-4T		2.5	130.9		63.6	55	40	1.0 to 3.0	38
VSP-HC20-40B*-6T		4							
VSP-HC20-50B*-4T		2.5	152.4		73.6	66.5	50	1.0 to 3.1	42
VSP-HC20-50B*-6T		4							
VSP-HC25-10B*-4T	25	2.5	67.4	19	33.6	21.5	10	1.0 to 2.4	26
VSP-HC25-10B*-6T		4							
VSP-HC25-15B*-4T		2.5	77.4		38.6	26.5	15	1.0 to 2.7	28
VSP-HC25-15B*-6T		4							
VSP-HC25-20B*-4T		2.5	87.4		43.6	31.5	20	1.0 to 3.0	30
VSP-HC25-20B*-6T		4							
VSP-HC25-25B*-4T		2.5	97.9		48.6	37	25	1.0 to 3.0	32
VSP-HC25-25B*-6T		4							
VSP-HC25-30B*-4T		2.5	108.9		53.6	43	30	1.0 to 3.0	35
VSP-HC25-30B*-6T		4							
VSP-HC25-40B*-4T		2.5	130.9		63.6	55	40	1.0 to 3.0	39
VSP-HC25-40B*-6T		4							
VSP-HC25-50B*-4T		2.5	152.4		73.6	66.5	50	1.0 to 3.1	43
VSP-HC25-50B*-6T		4							

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC30, 40-□B*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC30-10B*-4T	30	2.5	71.4	23	37.6	21.5	10	1.0 to 2.4	29
VSP-HC30-10B*-6T		4							
VSP-HC30-15B*-4T		2.5	81.4		42.6	26.5	15	1.0 to 2.7	31
VSP-HC30-15B*-6T		4							
VSP-HC30-20B*-4T		2.5	91.4		47.6	31.5	20	1.0 to 3.0	33
VSP-HC30-20B*-6T		4							
VSP-HC30-25B*-4T		2.5	101.9		52.6	37	25	1.0 to 3.0	35
VSP-HC30-25B*-6T		4							
VSP-HC30-30B*-4T		2.5	112.9		57.6	43	30	1.0 to 3.0	38
VSP-HC30-30B*-6T		4							
VSP-HC30-40B*-4T		2.5	134.9		67.6	55	40	1.0 to 3.0	42
VSP-HC30-40B*-6T		4							
VSP-HC30-50B*-4T		2.5	156.4		77.6	66.5	50	1.0 to 3.1	47
VSP-HC30-50B*-6T		4							
VSP-HC40-10B*-4T	40	2.5	78.4	30	44.6	21.5	10	1.0 to 2.4	31
VSP-HC40-10B*-6T		4							
VSP-HC40-15B*-4T		2.5	88.4		49.6	26.5	15	1.0 to 2.7	33
VSP-HC40-15B*-6T		4							
VSP-HC40-20B*-4T		2.5	98.4		54.6	31.5	20	1.0 to 3.0	35
VSP-HC40-20B*-6T		4							
VSP-HC40-25B*-4T		2.5	108.9		59.6	37	25	1.0 to 3.0	37
VSP-HC40-25B*-6T		4							
VSP-HC40-30B*-4T		2.5	119.9		64.6	43	30	1.0 to 3.0	40
VSP-HC40-30B*-6T		4							
VSP-HC40-40B*-4T		2.5	141.9		74.6	55	40	1.0 to 3.0	44
VSP-HC40-40B*-6T		4							
VSP-HC40-50B*-4T		2.5	163.4		84.6	66.5	50	1.0 to 3.1	49
VSP-HC40-50B*-6T		4							

Suction pad

General/Deep/Compact

Sponge

BelloWS

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

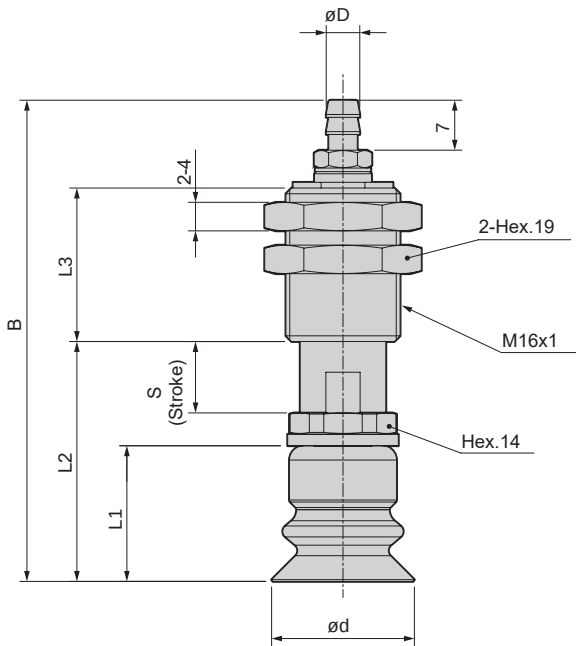
Flat

Suction mark prevention

VSP-***B*** Series

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC50-□B*-4T/6T



Unit: mm

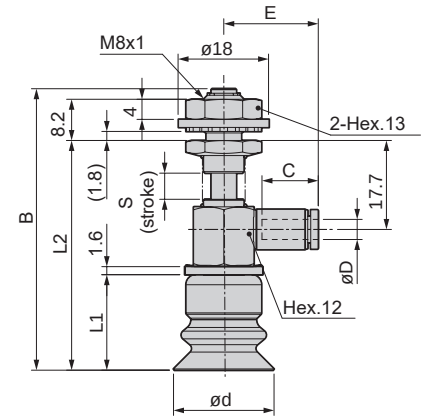
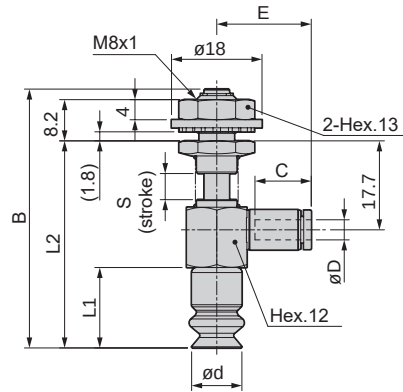
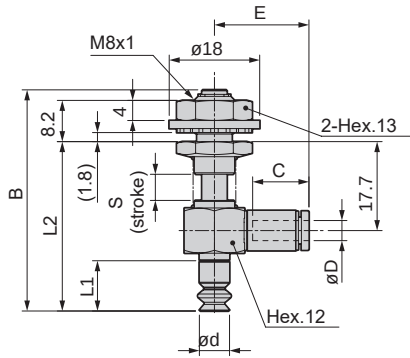
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC50-10B*-4T	50	2.5	80.4	32	46.6	21.5	10	1.0 to 2.4	52
VSP-HC50-10B*-6T		4							
VSP-HC50-15B*-4T		2.5	90.4		51.6	26.5	15	1.0 to 2.7	54
VSP-HC50-15B*-6T		4							
VSP-HC50-20B*-4T		2.5	100.4		56.6	31.5	20	1.0 to 3.0	56
VSP-HC50-20B*-6T		4							
VSP-HC50-25B*-4T		2.5	110.9		61.6	37	25	1.0 to 3.0	58
VSP-HC50-25B*-6T		4							
VSP-HC50-30B*-4T		2.5	121.9		66.6	43	30	1.0 to 3.0	61
VSP-HC50-30B*-6T		4							
VSP-HC50-40B*-4T		2.5	143.9		76.6	55	40	1.0 to 3.0	65
VSP-HC50-40B*-6T		4							
VSP-HC50-50B*-4T		2.5	165.4		86.6	66.5	50	1.0 to 3.1	69
VSP-HC50-50B*-6T		4							

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, push-in fitting)

●VSP-HD6, 8B*-2/4/6

●VSP-HD10, 15B*-2/4/6

●VSP-HD20 to 50B*-2/4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6B*-2	6	1.8	44	10	33.7	8.4	14.7	5.2	1.6 to 2.9	28
VSP-HD6B*-4		4				11.2	18.8			29
VSP-HD6B*-6		6				11.9	20.6			30
VSP-HD8B*-2	8	1.8	44	10	33.7	8.4	14.7	5.2	1.6 to 2.9	28
VSP-HD8B*-4		4				11.2	18.8			29
VSP-HD8B*-6		6				11.9	20.6			30
VSP-HD10B*-2	10	1.8	51.5	16	41.2	8.4	14.7	5.2	1.6 to 2.9	32
VSP-HD10B*-4		4				11.2	18.8			33
VSP-HD10B*-6		6				11.9	20.6			34
VSP-HD15B*-2	15	1.8	51.5	16	41.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HD15B*-4		4				11.2	18.8			34
VSP-HD15B*-6		6				11.9	20.6			35
VSP-HD20B*-2	20	1.8	56	19	45.7	8.4	14.7	5.2	1.6 to 2.9	36
VSP-HD20B*-4		4				11.2	18.8			37
VSP-HD20B*-6		6				11.9	20.6			38
VSP-HD25B*-2	25	1.8	56	19	45.7	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HD25B*-4		4				11.2	18.8			38
VSP-HD25B*-6		6				11.9	20.6			39
VSP-HD30B*-2	30	1.8	60	23	49.7	8.4	14.7	5.2	1.6 to 2.9	39
VSP-HD30B*-4		4				11.2	18.8			40
VSP-HD30B*-6		6				11.9	20.6			41
VSP-HD40B*-2	40	1.8	67	30	56.7	8.4	14.7	5.2	1.6 to 2.9	46
VSP-HD40B*-4		4				11.2	18.8			47
VSP-HD40B*-6		6				11.9	20.6			48
VSP-HD50B*-2	50	1.8	69	32	58.7	8.4	14.7	5.2	1.6 to 2.9	53
VSP-HD50B*-4		4				11.2	18.8			54
VSP-HD50B*-6		6				11.9	20.6			55

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

VSP-*B* Series

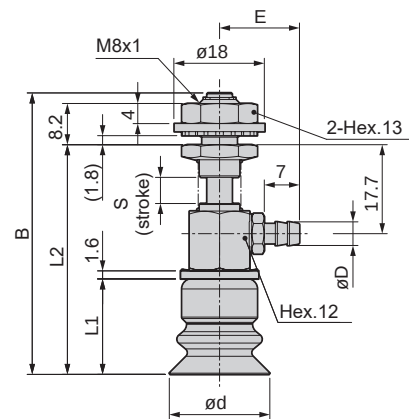
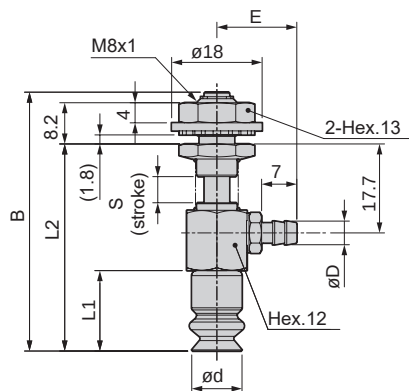
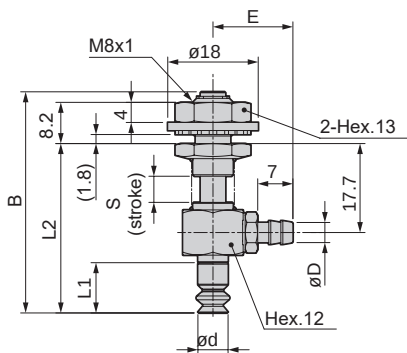
Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, barbed fitting)

●VSP-HD6, 8B*-4T/6T

●VSP-HD10, 15B*-4T/6T

●VSP-HD20 to 50B*-4T/6T

Suction pad



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6B*-4T	6	2.5	44	10	33.7	15.9	5.2	1.6 to 2.9	28
VSP-HD6B*-6T		4							
VSP-HD8B*-4T	8	2.5	44	10	33.7	15.9	5.2	1.6 to 2.9	28
VSP-HD8B*-6T		4							
VSP-HD10B*-4T	10	2.5	51.5	16	41.2	15.9	5.2	1.6 to 2.9	31
VSP-HD10B*-6T		4							
VSP-HD15B*-4T	15	2.5	51.5	16	41.2	15.9	5.2	1.6 to 2.9	32
VSP-HD15B*-6T		4							
VSP-HD20B*-4T	20	2.5	56	19	45.7	15.9	5.2	1.6 to 2.9	36
VSP-HD20B*-6T		4							
VSP-HD25B*-4T	25	2.5	56	19	45.7	15.9	5.2	1.6 to 2.9	37
VSP-HD25B*-6T		4							
VSP-HD30B*-4T	30	2.5	60	23	49.7	15.9	5.2	1.6 to 2.9	39
VSP-HD30B*-6T		4							
VSP-HD40B*-4T	40	2.5	67	30	56.7	15.9	5.2	1.6 to 2.9	47
VSP-HD40B*-6T		4							
VSP-HD50B*-4T	50	2.5	69	32	58.7	15.9	5.2	1.6 to 2.9	53
VSP-HD50B*-6T		4							

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

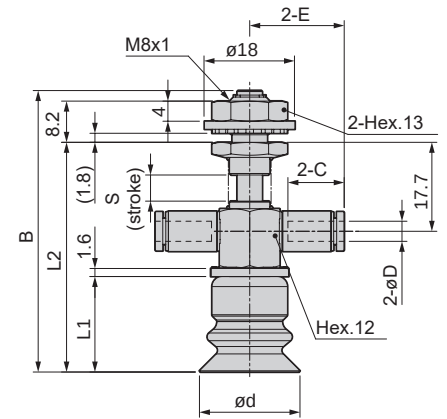
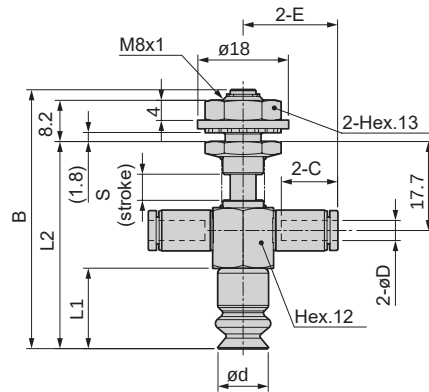
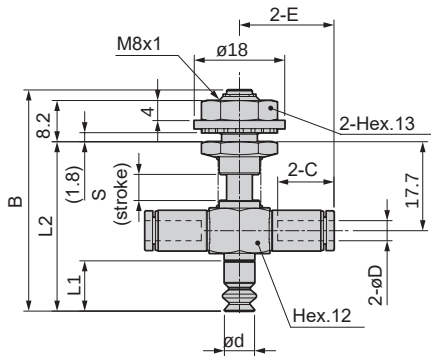
Suction mark
prevention

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, push-in fitting)

●VSP-HDW6, 8B*-2/4/6

●VSP-HDW10, 15B*-2/4/6

●VSP-HDW20 to 50B*-2/4/6



Unit: mm										
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6B*-2	6	1.8	44	10	33.7	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW6B*-4		4				11.2	18.8			32
VSP-HDW6B*-6		6				11.9	20.6			34
VSP-HDW8B*-2	8	1.8	44	10	33.7	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW8B*-4		4				11.2	18.8			32
VSP-HDW8B*-6		6				11.9	20.6			34
VSP-HDW10B*-2	10	1.8	51.5	16	41.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HDW10B*-4		4				11.2	18.8			35
VSP-HDW10B*-6		6				11.9	20.6			37
VSP-HDW15B*-2	15	1.8	51.5	16	41.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HDW15B*-4		4				11.2	18.8			35
VSP-HDW15B*-6		6				11.9	20.6			37
VSP-HDW20B*-2	20	1.8	56	19	45.7	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HDW20B*-4		4				11.2	18.8			39
VSP-HDW20B*-6		6				11.9	20.6			41
VSP-HDW25B*-2	25	1.8	56	19	45.7	8.4	14.7	5.2	1.6 to 2.9	38
VSP-HDW25B*-4		4				11.2	18.8			40
VSP-HDW25B*-6		6				11.9	20.6			42
VSP-HDW30B*-2	30	1.8	60	23	49.7	8.4	14.7	5.2	1.6 to 2.9	41
VSP-HDW30B*-4		4				11.2	18.8			43
VSP-HDW30B*-6		6				11.9	20.6			45
VSP-HDW40B*-2	40	1.8	67	30	56.7	8.4	14.7	5.2	1.6 to 2.9	49
VSP-HDW40B*-4		4				11.2	18.8			51
VSP-HDW40B*-6		6				11.9	20.6			53
VSP-HDW50B*-2	50	1.8	69	32	58.7	8.4	14.7	5.2	1.6 to 2.9	55
VSP-HDW50B*-4		4				11.2	18.8			57
VSP-HDW50B*-6		6				11.9	20.6			59

Suction pad

General/Deep/ Compact

Sponge

BelloWS

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

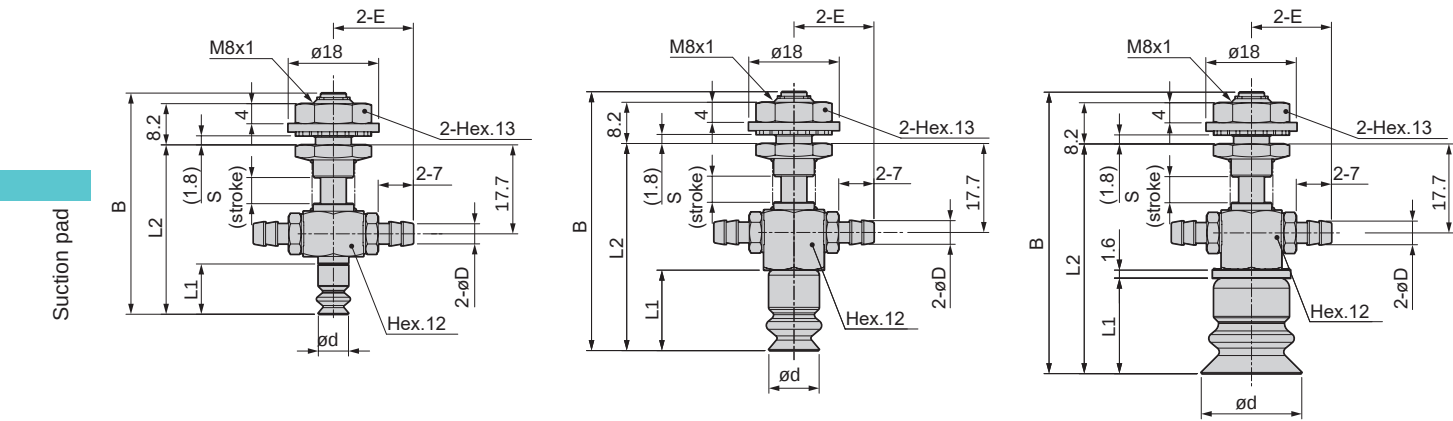
VSP-***B*** Series

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, barbed fitting)

●VSP-HDW6, 8B*-4T/6T

●VSP-HDW10, 15B*-4T/6T

●VSP-HDW20 to 50B*-4T/6T



- General/Deep/Compact
- Sponge
- Bel lows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

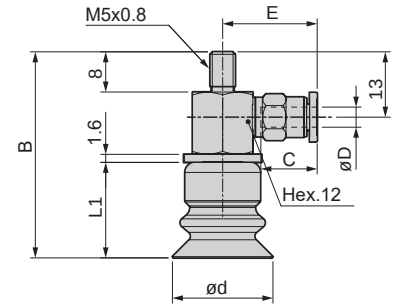
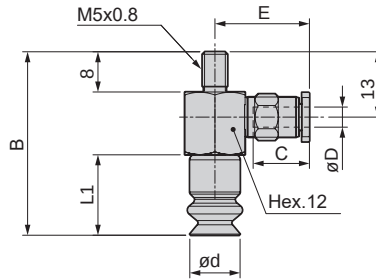
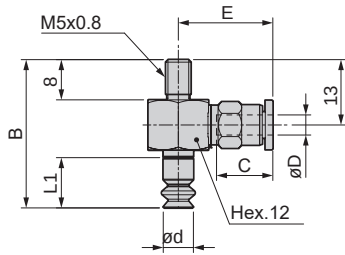
Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6B*-4T	6	2.5	44	10	33.7	15.9	5.2	1.6 to 2.9	28
VSP-HDW6B*-6T		4							
VSP-HDW8B*-4T	8	2.5	44	10	33.7	15.9	5.2	1.6 to 2.9	28
VSP-HDW8B*-6T		4							
VSP-HDW10B*-4T	10	2.5	51.5	16	41.2	15.9	5.2	1.6 to 2.9	32
VSP-HDW10B*-6T		4							
VSP-HDW15B*-4T	15	2.5	51.5	16	41.2	15.9	5.2	1.6 to 2.9	32
VSP-HDW15B*-6T		4							
VSP-HDW20B*-4T	20	2.5	56	19	45.7	15.9	5.2	1.6 to 2.9	37
VSP-HDW20B*-6T		4							
VSP-HDW25B*-4T	25	2.5	56	19	45.7	15.9	5.2	1.6 to 2.9	37
VSP-HDW25B*-6T		4							
VSP-HDW30B*-4T	30	2.5	60	23	49.7	15.9	5.2	1.6 to 2.9	39
VSP-HDW30B*-6T		4							
VSP-HDW40B*-4T	40	2.5	67	30	56.7	15.9	5.2	1.6 to 2.9	48
VSP-HDW40B*-6T		4							
VSP-HDW50B*-4T	50	2.5	69	32	58.7	15.9	5.2	1.6 to 2.9	55
VSP-HDW50B*-6T		4							

Dimensions (low back, fixed, vacuum outlet, side, VSP-HE, push-in fitting)

●VSP-HE6, 8B*-2/4/6

●VSP-HE10, 15B*-2/4/6

●VSP-HE20 to 50B*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE6B*-2	6	1.8	29.5	10	8.4	14.7	14
VSP-HE6B*-4		4			11.2	18.8	15
VSP-HE6B*-6		6			11.9	20.6	16
VSP-HE8B*-2	8	1.8	29.5	10	8.4	14.7	14
VSP-HE8B*-4		4			11.2	18.8	15
VSP-HE8B*-6		6			11.9	20.6	16
VSP-HE10B*-2	10	1.8	36.5	16	8.4	14.7	17
VSP-HE10B*-4		4			11.2	18.8	18
VSP-HE10B*-6		6			11.9	20.6	19
VSP-HE15B*-2	15	1.8	36.5	16	8.4	14.7	17
VSP-HE15B*-4		4			11.2	18.8	18
VSP-HE15B*-6		6			11.9	20.6	19
VSP-HE20B*-2	20	1.8	41	19	8.4	14.7	22
VSP-HE20B*-4		4			11.2	18.8	23
VSP-HE20B*-6		6			11.9	20.6	24
VSP-HE25B*-2	25	1.8	41	19	8.4	14.7	22
VSP-HE25B*-4		4			11.2	18.8	23
VSP-HE25B*-6		6			11.9	20.6	24
VSP-HE30B*-2	30	1.8	47	23	8.4	14.7	25
VSP-HE30B*-4		4			11.2	18.8	26
VSP-HE30B*-6		6			11.9	20.6	27
VSP-HE40B*-2	40	1.8	52	30	8.4	14.7	33
VSP-HE40B*-4		4			11.2	18.8	34
VSP-HE40B*-6		6			11.9	20.6	35
VSP-HE50B*-2	50	1.8	54	32	8.4	14.7	41
VSP-HE50B*-4		4			11.2	18.8	42
VSP-HE50B*-6		6			11.9	20.6	43

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

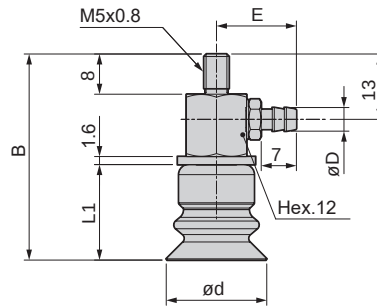
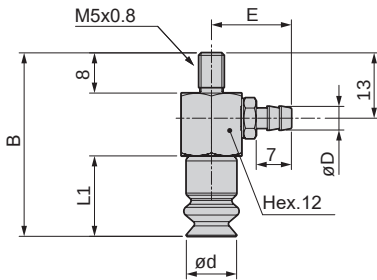
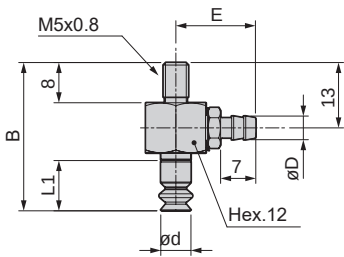
VSP-*B* Series

Dimensions (low back, fixed, vacuum outlet, side, VSP-HE, barbed fitting)

●VSP-HE6, 8B*-4T/6T

●VSP-HE10, 15B*-4T/6T

●VSP-HE20 to 50B*-4T/6T



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	E	Weight (g)
VSP-HE6B*-4T	6	2.5	29.5	10	15.9	13
VSP-HE6B*-6T		4				
VSP-HE8B*-4T	8	2.5	29.5	10	15.9	13
VSP-HE8B*-6T		4				
VSP-HE10B*-4T	10	2.5	36.5	16	15.9	16
VSP-HE10B*-6T		4				
VSP-HE15B*-4T	15	2.5	36.5	16	15.9	16
VSP-HE15B*-6T		4				
VSP-HE20B*-4T	20	2.5	41	19	15.9	21
VSP-HE20B*-6T		4				
VSP-HE25B*-4T	25	2.5	41	19	15.9	21
VSP-HE25B*-6T		4				
VSP-HE30B*-4T	30	2.5	47	23	15.9	24
VSP-HE30B*-6T		4				
VSP-HE40B*-4T	40	2.5	52	30	15.9	32
VSP-HE40B*-6T		4				
VSP-HE50B*-4T	50	2.5	54	32	15.9	40
VSP-HE50B*-6T		4				

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

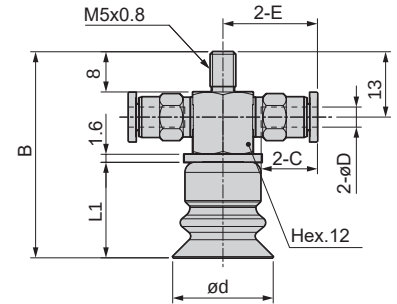
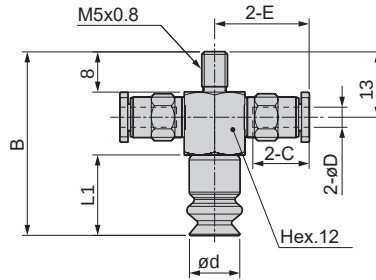
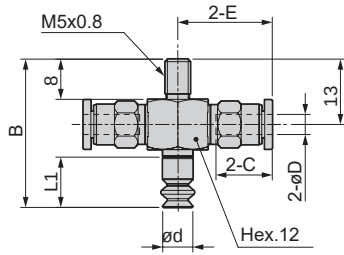
Suction mark
prevention

Dimensions (low back, fixed, vacuum outlet, both sides, VSP-HE, push-in fitting)

●VSP-HEW6, 8B*-2/4/6

●VSP-HEW10, 15B*-2/4/6

●VSP-HEW20 to 50B*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW6B*-2	6	1.8	29.5	10	8.4	14.7	16
VSP-HEW6B*-4		4			11.2	18.8	18
VSP-HEW6B*-6		6			11.9	20.6	20
VSP-HEW8B*-2	8	1.8	29.5	10	8.4	14.7	16
VSP-HEW8B*-4		4			11.2	18.8	18
VSP-HEW8B*-6		6			11.9	20.6	20
VSP-HEW10B*-2	10	1.8	36.5	16	8.4	14.7	19
VSP-HEW10B*-4		4			11.2	18.8	21
VSP-HEW10B*-6		6			11.9	20.6	23
VSP-HEW15B*-2	15	1.8	36.5	16	8.4	14.7	20
VSP-HEW15B*-4		4			11.2	18.8	22
VSP-HEW15B*-6		6			11.9	20.6	24
VSP-HEW20B*-2	20	1.8	41	19	8.4	14.7	23
VSP-HEW20B*-4		4			11.2	18.8	25
VSP-HEW20B*-6		6			11.9	20.6	27
VSP-HEW25B*-2	25	1.8	41	19	8.4	14.7	24
VSP-HEW25B*-4		4			11.2	18.8	26
VSP-HEW25B*-6		6			11.9	20.6	28
VSP-HEW30B*-2	30	1.8	47	23	8.4	14.7	28
VSP-HEW30B*-4		4			11.2	18.8	30
VSP-HEW30B*-6		6			11.9	20.6	32
VSP-HEW40B*-2	40	1.8	52	30	8.4	14.7	34
VSP-HEW40B*-4		4			11.2	18.8	36
VSP-HEW40B*-6		6			11.9	20.6	38
VSP-HEW50B*-2	50	1.8	54	32	8.4	14.7	41
VSP-HEW50B*-4		4			11.2	18.8	43
VSP-HEW50B*-6		6			11.9	20.6	45

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

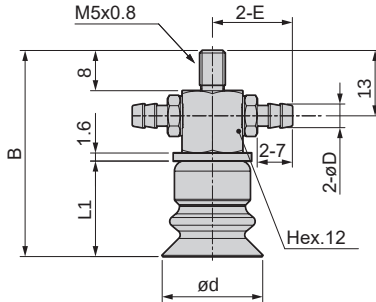
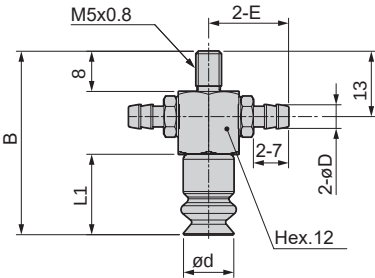
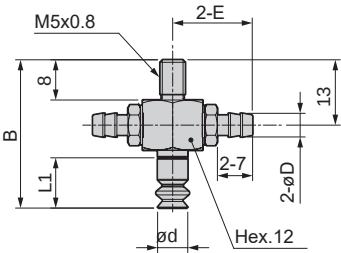
VSP-**B*** Series

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HEW, barbed fitting)

●VSP-HEW6, 8B*-4T/6T

●VSP-HEW10, 15B*-4T/6T

●VSP-HEW20 to 50B*-4T/6T



Unit: mm

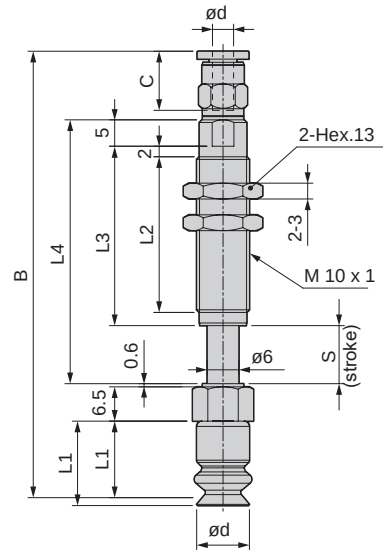
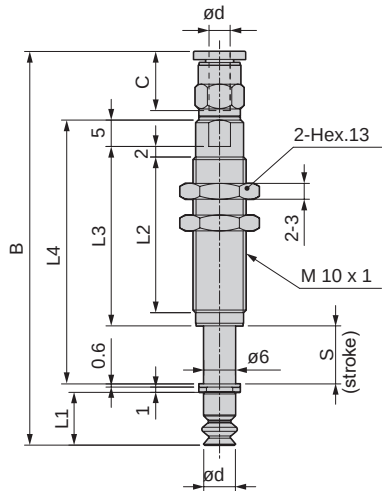
Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW6B*-4T	6	2.5	29.5	10	15.9	14
VSP-HEW6B*-6T		4				
VSP-HEW8B*-4T	8	2.5	29.5	10	15.9	14
VSP-HEW8B*-6T		4				
VSP-HEW10B*-4T	10	2.5	36.5	16	15.9	17
VSP-HEW10B*-6T		4				
VSP-HEW15B*-4T	15	2.5	36.5	16	15.9	17
VSP-HEW15B*-6T		4				
VSP-HEW20B*-4T	20	2.5	41	19	15.9	21
VSP-HEW20B*-6T		4				
VSP-HEW25B*-4T	25	2.5	41	19	15.9	22
VSP-HEW25B*-6T		4				
VSP-HEW30B*-4T	30	2.5	47	23	15.9	25
VSP-HEW30B*-6T		4				
VSP-HEW40B*-4T	40	2.5	52	30	15.9	33
VSP-HEW40B*-6T		4				
VSP-HEW50B*-4T	50	2.5	54	32	15.9	40
VSP-HEW50B*-6T		4				

- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC6, 8-□B*-4

●VSP-LFC10, 15-□B*-4



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC6-2B*-4	6	4	58.6	10	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC6-5B*-4			64.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC6-10B*-4			74.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC6-15B*-4			84.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC6-20B*-4			94.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC8-2B*-4	8	4	58.6	10	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC8-5B*-4			64.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC8-10B*-4			74.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC8-15B*-4			84.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC8-20B*-4			94.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC10-2B*-4	10	4	70.1	16	21.5	26	34	11.2	2	1.3 to 1.8	28
VSP-LFC10-5B*-4			76.1		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC10-10B*-4			86.1		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC10-15B*-4			96.1		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC10-20B*-4			106.1		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC15-2B*-4	15	4	70.1	16	21.5	26	34	11.2	2	1.3 to 1.8	28
VSP-LFC15-5B*-4			76.1		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC15-10B*-4			86.1		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC15-15B*-4			96.1		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC15-20B*-4			106.1		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	36

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

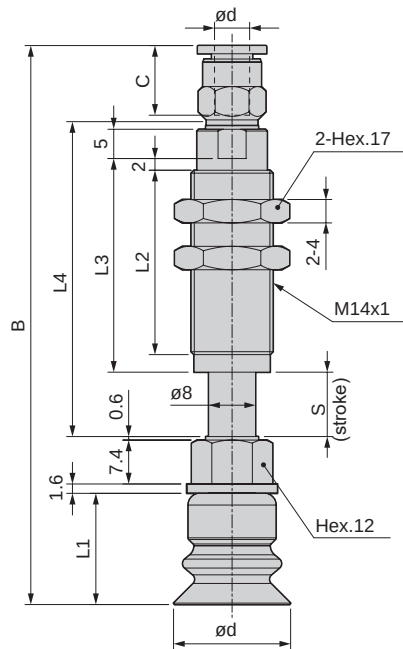
Flat

Suction mark
prevention

VSP-*B* Series

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC20 to 50-□B*-4/6



Unit: mm

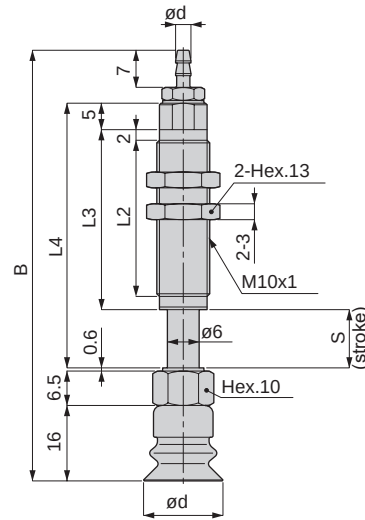
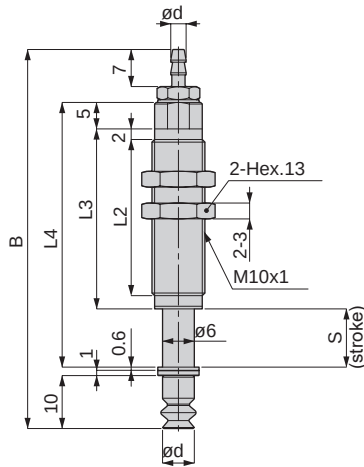
	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
Bellows	VSP-LFC20-5B*-4	20	4	84.1	19	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
	VSP-LFC20-5B*-6		6	85.4					11.9			58
	VSP-LFC20-10B*-4		4	94.1		31.5	36.5	52.5	11.2		4.5 to 8.2 [1.13 to 2.05]	59
	VSP-LFC20-10B*-6		6	95.4					11.9			60
Multi-stage bellows	VSP-LFC20-15B*-4		4	104.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
	VSP-LFC20-15B*-6		6	105.4					11.9			63
	VSP-LFC20-20B*-4		4	114.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65
	VSP-LFC20-20B*-6		6	115.4					11.9			66
Oval	VSP-LFC25-5B*-4	25	4	84.1	19	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	58
	VSP-LFC25-5B*-6		6	85.4					11.9			59
	VSP-LFC25-10B*-4		4	94.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	60
	VSP-LFC25-10B*-6		6	95.4					11.9			61
Soft	VSP-LFC25-15B*-4		4	104.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	63
	VSP-LFC25-15B*-6		6	105.4					11.9			64
	VSP-LFC25-20B*-4		4	114.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	66
	VSP-LFC25-20B*-6		6	115.4					11.9			67
Soft bellows	VSP-LFC30-5B*-4	30	4	88.1	23	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	59
	VSP-LFC30-5B*-6		6	89.4					11.9			60
	VSP-LFC30-10B*-4		4	98.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	61
	VSP-LFC30-10B*-6		6	99.4					11.9			62
Anti-slip	VSP-LFC30-15B*-4		4	108.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	64
	VSP-LFC30-15B*-6		6	109.4					11.9			65
	VSP-LFC30-20B*-4		4	118.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	67
	VSP-LFC30-20B*-6		6	119.4					11.9			68
Thin object	VSP-LFC40-5B*-4	40	4	95.1	30	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	70
	VSP-LFC40-5B*-6		6	96.4					11.9			71
	VSP-LFC40-10B*-4		4	105.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	72
	VSP-LFC40-10B*-6		6	106.4					11.9			73
Flat	VSP-LFC40-15B*-4		4	115.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	75
	VSP-LFC40-15B*-6		6	116.4					11.9			76
	VSP-LFC40-20B*-4		4	125.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	78
	VSP-LFC40-20B*-6		6	126.4					11.9			79
Suction mark prevention	VSP-LFC50-5B*-4	50	4	97.1	32	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	76
	VSP-LFC50-5B*-6		6	98.4					11.9			77
	VSP-LFC50-10B*-4		4	107.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	78
	VSP-LFC50-10B*-6		6	108.4					11.9			79
	VSP-LFC50-15B*-4		4	117.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	81
	VSP-LFC50-15B*-6		6	118.4					11.9			82
	VSP-LFC50-20B*-4		4	127.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	84
	VSP-LFC50-20B*-6		6	128.4					11.9			85

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC6, 8-□B*-4T/6T

●VSP-LFC10, 15-□B*-4T/6T



Unit: mm

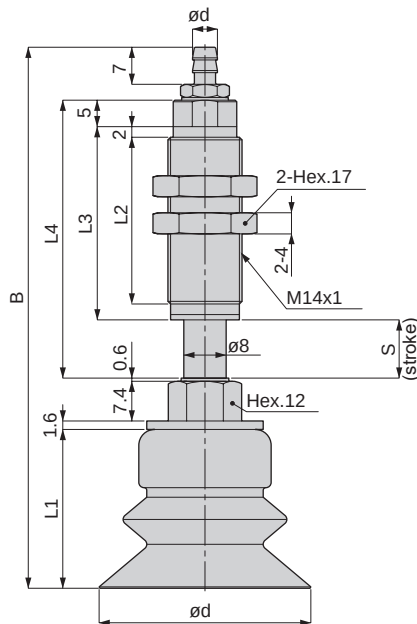
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VSP-LFC6-2B*-4T	6	2.5	55.7	10	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC6-2B*-6T		4								
VSP-LFC6-5B*-4T		2.5	61.7		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC6-5B*-6T		4								
VSP-LFC6-10B*-4T		2.5	71.7		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC6-10B*-6T		4								
VSP-LFC6-15B*-4T		2.5	81.7		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC6-15B*-6T		4								
VSP-LFC6-20B*-4T		2.5	91.7		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	32
VSP-LFC6-20B*-6T		4								
VSP-LFC8-2B*-4T	8	2.5	55.7	10	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC8-2B*-6T		4								
VSP-LFC8-5B*-4T		2.5	61.7		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC8-5B*-6T		4								
VSP-LFC8-10B*-4T		2.5	71.7		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC8-10B*-6T		4								
VSP-LFC8-15B*-4T		2.5	81.7		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC8-15B*-6T		4								
VSP-LFC8-20B*-4T		2.5	91.7		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	32
VSP-LFC8-20B*-6T		4								
VSP-LFC10-2B*-4T	10	2.5	67.2	16	21.5	26	34	2	1.3 to 1.8	27
VSP-LFC10-2B*-6T		4								
VSP-LFC10-5B*-4T		2.5	73.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	29
VSP-LFC10-5B*-6T		4								
VSP-LFC10-10B*-4T		2.5	83.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	31
VSP-LFC10-10B*-6T		4								
VSP-LFC10-15B*-4T		2.5	93.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	33
VSP-LFC10-15B*-6T		4								
VSP-LFC10-20B*-4T		2.5	103.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	35
VSP-LFC10-20B*-6T		4								
VSP-LFC15-2B*-4T	15	2.5	67.2	16	21.5	26	34	2	1.3 to 1.8	27
VSP-LFC15-2B*-6T		4								
VSP-LFC15-5B*-4T		2.5	73.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	29
VSP-LFC15-5B*-6T		4								
VSP-LFC15-10B*-4T		2.5	83.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	31
VSP-LFC15-10B*-6T		4								
VSP-LFC15-15B*-4T		2.5	93.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	33
VSP-LFC15-15B*-6T		4								
VSP-LFC15-20B*-4T		2.5	103.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	35
VSP-LFC15-20B*-6T		4								

*1: Values in [] are for low load.

VSP-*B* Series

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC20 to 50-□B*-4T/6T



Unit: mm

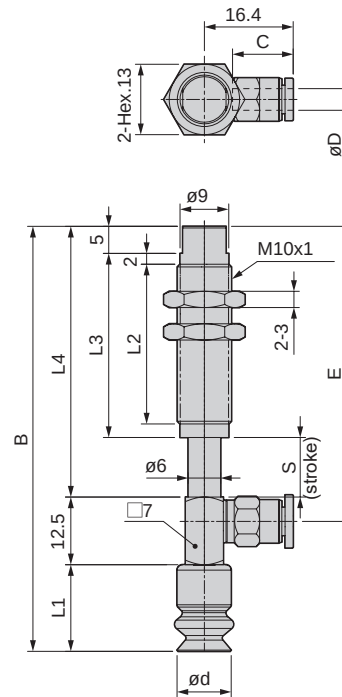
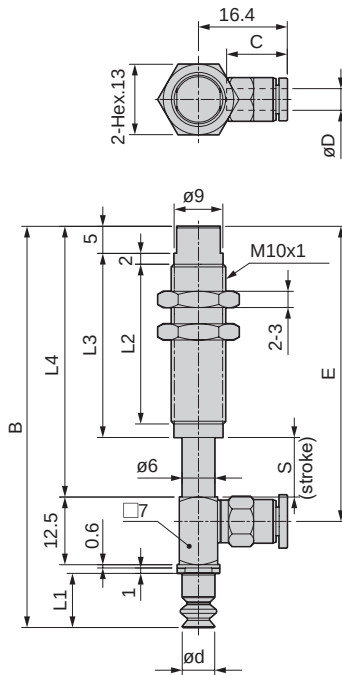
	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
Suction pad	VSP-LFC20-5B*-4T	20	2.5	81.2	19	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	53
	VSP-LFC20-5B*-6T		4								
General/Deep/Compact	VSP-LFC20-10B*-4T		2.5								
	VSP-LFC20-10B*-6T		4								
Sponge	VSP-LFC20-15B*-4T		2.5								
	VSP-LFC20-15B*-6T		4								
Bellows	VSP-LFC20-20B*-4T		2.5								
	VSP-LFC20-20B*-6T		4								
Multi-stage bellows	VSP-LFC25-5B*-4T	25	2.5	81.2	19	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	54
	VSP-LFC25-5B*-6T		4								
Oval	VSP-LFC25-10B*-4T		2.5								
	VSP-LFC25-10B*-6T		4								
Soft	VSP-LFC25-15B*-4T		2.5								
	VSP-LFC25-15B*-6T		4								
Soft bellows	VSP-LFC25-20B*-4T		2.5								
	VSP-LFC25-20B*-6T		4								
Anti-slip	VSP-LFC30-5B*-4T	30	2.5	85.2	23	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	55
	VSP-LFC30-5B*-6T		4								
Thin object	VSP-LFC30-10B*-4T		2.5								
	VSP-LFC30-10B*-6T		4								
Flat	VSP-LFC30-15B*-4T		2.5								
	VSP-LFC30-15B*-6T		4								
Suction mark prevention	VSP-LFC30-20B*-4T		2.5								
	VSP-LFC30-20B*-6T		4								
	VSP-LFC40-5B*-4T	40	2.5	92.2	30	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	66
	VSP-LFC40-5B*-6T		4								
	VSP-LFC40-10B*-4T		2.5								
	VSP-LFC40-10B*-6T		4								
	VSP-LFC40-15B*-4T		2.5								
	VSP-LFC40-15B*-6T		4								
	VSP-LFC40-20B*-4T		2.5								
	VSP-LFC40-20B*-6T		4								
	VSP-LFC50-5B*-4T	50	2.5	94.2	32	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	72
	VSP-LFC50-5B*-6T		4								
	VSP-LFC50-10B*-4T		2.5								
	VSP-LFC50-10B*-6T		4								
	VSP-LFC50-15B*-4T		2.5								
	VSP-LFC50-15B*-6T		4								
	VSP-LFC50-20B*-4T		2.5								
	VSP-LFC50-20B*-6T		4								

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD6, 8-□B*-4

●VSP-LFD10, 15-□B*-4



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD6-5B*-4	6	4	64.1	10	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD6-10B*-4			74.1		29.5	34	50		54.5	10	1.3 to 3.3	34
VSP-LFD6-15B*-4			84.1		34.5	39	60		64.5	15	1.3 to 4.2	36
VSP-LFD6-20B*-4			94.1		39.5	44	70		74.5	20	1.3 to 5.1	38
VSP-LFD8-5B*-4	8	4	64.1	10	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD8-10B*-4			74.1		29.5	34	50		54.5	10	1.3 to 3.3	34
VSP-LFD8-15B*-4			84.1		34.5	39	60		64.5	15	1.3 to 4.2	36
VSP-LFD8-20B*-4			94.1		39.5	44	70		74.5	20	1.3 to 5.1	38
VSP-LFD10-5B*-4	10	4	68.5	16	24.5	29	40	11.2	44.5	5	1.3 to 2.4	26
VSP-LFD10-10B*-4			78.5		29.5	34	50		54.5	10	1.3 to 3.3	28
VSP-LFD10-15B*-4			88.5		34.5	39	60		64.5	15	1.3 to 4.2	30
VSP-LFD10-20B*-4			98.5		39.5	44	70		74.5	20	1.3 to 5.1	32
VSP-LFD15-5B*-4	15	4	68.5	16	24.5	29	40	11.2	44.5	5	1.3 to 2.4	26
VSP-LFD15-10B*-4			78.5		29.5	34	50		54.5	10	1.3 to 3.3	28
VSP-LFD15-15B*-4			88.5		34.5	39	60		64.5	15	1.3 to 4.2	30
VSP-LFD15-20B*-4			98.5		39.5	44	70		74.5	20	1.3 to 5.1	32

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

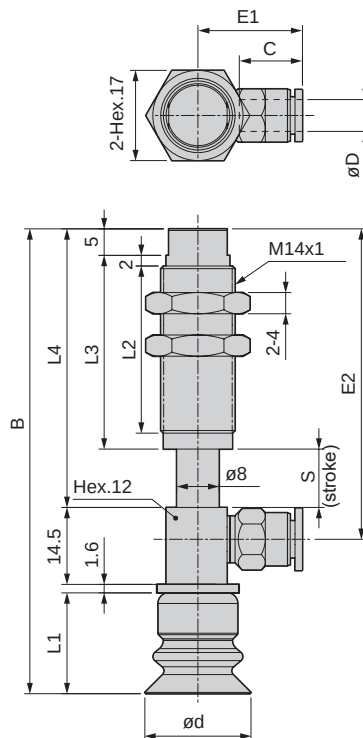
Flat

Suction mark
prevention

VSP-*B* Series

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD20 to 50-□B*-4/6



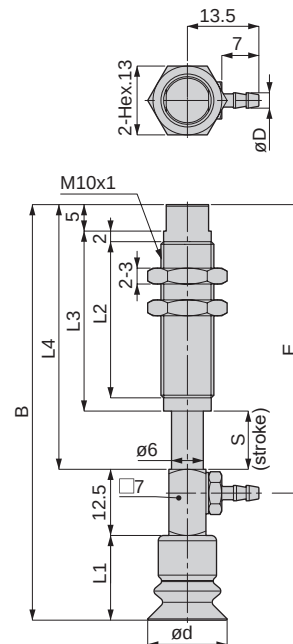
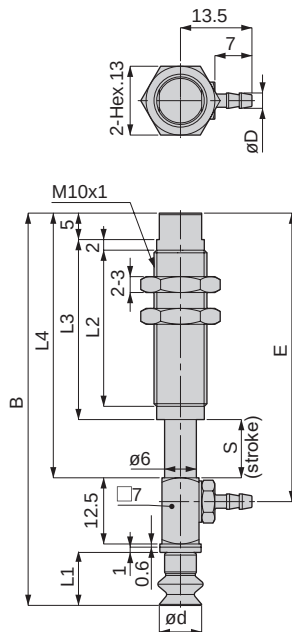
Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD20-5B*-4	20	4	77.5	19	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	58
VSP-LFD20-5B*-6		6						11.9	19.7				59
VSP-LFD20-10B*-4		4	87.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	62
VSP-LFD20-10B*-6		6						11.9	19.7				63
VSP-LFD20-15B*-4		4	97.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	66
VSP-LFD20-15B*-6		6						11.9	19.7				67
VSP-LFD20-20B*-4		4	107.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	70
VSP-LFD20-20B*-6		6						11.9	19.7				71
VSP-LFD25-5B*-4	25	4	77.5	19	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	59
VSP-LFD25-5B*-6		6						11.9	19.7				60
VSP-LFD25-10B*-4		4	87.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	63
VSP-LFD25-10B*-6		6						11.9	19.7				64
VSP-LFD25-15B*-4		4	97.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	67
VSP-LFD25-15B*-6		6						11.9	19.7				68
VSP-LFD25-20B*-4		4	107.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	71
VSP-LFD25-20B*-6		6						11.9	19.7				72
VSP-LFD30-5B*-4	30	4	81.5	23	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	60
VSP-LFD30-5B*-6		6						11.9	19.7				61
VSP-LFD30-10B*-4		4	91.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	64
VSP-LFD30-10B*-6		6						11.9	19.7				65
VSP-LFD30-15B*-4		4	101.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	68
VSP-LFD30-15B*-6		6						11.9	19.7				69
VSP-LFD30-20B*-4		4	111.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	72
VSP-LFD30-20B*-6		6						11.9	19.7				73
VSP-LFD40-5B*-4	40	4	88.5	30	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	71
VSP-LFD40-5B*-6		6						11.9	19.7				72
VSP-LFD40-10B*-4		4	98.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	75
VSP-LFD40-10B*-6		6						11.9	19.7				76
VSP-LFD40-15B*-4		4	108.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	79
VSP-LFD40-15B*-6		6						11.9	19.7				80
VSP-LFD40-20B*-4		4	118.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	84
VSP-LFD40-20B*-6		6						11.9	19.7				85
VSP-LFD50-5B*-4	50	4	90.5	32	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	77
VSP-LFD50-5B*-6		6						11.9	19.7				78
VSP-LFD50-10B*-4		4	100.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	81
VSP-LFD50-10B*-6		6						11.9	19.7				82
VSP-LFD50-15B*-4		4	118.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	85
VSP-LFD50-15B*-6		6						11.9	19.7				86
VSP-LFD50-20B*-4		4	128.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	90
VSP-LFD50-20B*-6		6						11.9	19.7				91

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD6, 8-□B*-4T/6T

●VSP-LFD10 to 15-□B*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD6-5B*-4T	6	2.5	64.1	10	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD6-5B*-6T		4									
VSP-LFD6-10B*-4T		2.5	74.1		29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD6-10B*-6T		4									
VSP-LFD6-15B*-4T		2.5	84.1		34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD6-15B*-6T		4									
VSP-LFD6-20B*-4T		2.5	94.1		39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD6-20B*-6T		4									
VSP-LFD8-5B*-4T	8	2.5	64.1	10	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD8-5B*-6T		4									
VSP-LFD8-10B*-4T		2.5	74.1		29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD8-10B*-6T		4									
VSP-LFD8-15B*-4T		2.5	84.1		34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD8-15B*-4T		4									
VSP-LFD8-20B*-4T		2.5	94.1		39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD8-20B*-6T		4									
VSP-LFD10-5B*-4T	10	2.5	68.5	16	24.5	29	40	44.5	5	1.3 to 2.4	26
VSP-LFD10-5B*-6T		4									
VSP-LFD10-10B*-4T		2.5	78.5		29.5	34	50	54.5	10	1.3 to 3.3	27
VSP-LFD10-10B*-6T		4									
VSP-LFD10-15B*-4T		2.5	88.5		34.5	39	60	64.5	15	1.3 to 4.2	29
VSP-LFD10-15B*-6T		4									
VSP-LFD10-20B*-4T		2.5	98.5		39.5	44	70	74.5	20	1.3 to 5.1	31
VSP-LFD10-20B*-6T		4									
VSP-LFD15-5B*-4T	15	2.5	68.5	16	24.5	29	40	44.5	5	1.3 to 2.4	26
VSP-LFD15-5B*-6T		4									
VSP-LFD15-10B*-4T		2.5	78.5		29.5	34	50	54.5	10	1.3 to 3.3	27
VSP-LFD15-10B*-6T		4									
VSP-LFD15-15B*-4T		2.5	88.5		34.5	39	60	64.5	15	1.3 to 4.2	29
VSP-LFD15-15B*-6T		4									
VSP-LFD15-20B*-4T		2.5	98.5		39.5	44	70	74.5	20	1.3 to 5.1	31
VSP-LFD15-20B*-6T		4									

Suction pad

General/Deep/
Compact

Sponge

BelloWS

Multi-stage
belloWS

Oval

Soft

Soft
belloWS

Anti-slip

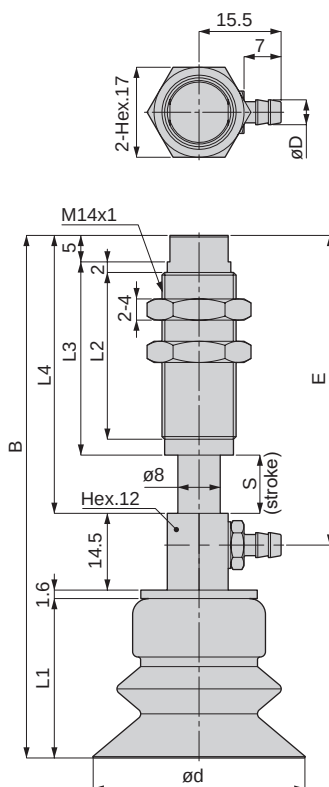
Thin object

Flat

Suction mark
prevention

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD20 to 50-□B*-4T/6T

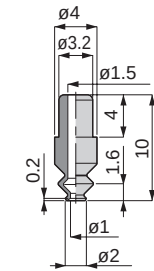


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD20-5B*-4T	20	2.5	77.5	19	26.5	31.5	42.5	48.5	5	4.5 to 6.5	54
VSP-LFD20-5B*-6T		4									
VSP-LFD20-10B*-4T		2.5									
VSP-LFD20-10B*-6T		4									
VSP-LFD20-15B*-4T		2.5									
VSP-LFD20-15B*-6T		4									
VSP-LFD20-20B*-4T	20	2.5	97.5	19	36.5	41.5	62.5	68.5	15	4.5 to 9.9	61
VSP-LFD20-20B*-6T		4									
VSP-LFD25-5B*-4T	25	2.5	77.5	19	26.5	31.5	42.5	48.5	5	4.5 to 6.5	55
VSP-LFD25-5B*-6T		4									
VSP-LFD25-10B*-4T		2.5									
VSP-LFD25-10B*-6T		4									
VSP-LFD25-15B*-4T		2.5									
VSP-LFD25-15B*-6T		4									
VSP-LFD25-20B*-4T	25	2.5	97.5	19	36.5	41.5	62.5	68.5	15	4.5 to 9.9	62
VSP-LFD25-20B*-6T		4									
VSP-LFD30-5B*-4T	30	2.5	81.5	23	26.5	31.5	42.5	48.5	5	4.5 to 6.5	56
VSP-LFD30-5B*-6T		4									
VSP-LFD30-10B*-4T		2.5									
VSP-LFD30-10B*-6T		4									
VSP-LFD30-15B*-4T		2.5									
VSP-LFD30-15B*-6T		4									
VSP-LFD30-20B*-4T	30	2.5	101.5	23	36.5	41.5	62.5	68.5	15	4.5 to 9.9	63
VSP-LFD30-20B*-6T		4									
VSP-LFD40-5B*-4T	40	2.5	88.5	30	26.5	31.5	42.5	48.5	5	4.5 to 6.5	67
VSP-LFD40-5B*-6T		4									
VSP-LFD40-10B*-4T		2.5									
VSP-LFD40-10B*-6T		4									
VSP-LFD40-15B*-4T		2.5									
VSP-LFD40-15B*-6T		4									
VSP-LFD40-20B*-4T	40	2.5	108.5	30	36.5	41.5	62.5	68.5	15	4.5 to 9.9	74
VSP-LFD40-20B*-6T		4									
VSP-LFD50-5B*-4T	50	2.5	90.5	32	26.5	31.5	42.5	48.5	5	4.5 to 6.5	73
VSP-LFD50-5B*-6T		4									
VSP-LFD50-10B*-4T		2.5									
VSP-LFD50-10B*-6T		4									
VSP-LFD50-15B*-4T		2.5									
VSP-LFD50-15B*-6T		4									
VSP-LFD50-20B*-4T	50	2.5	118.5	32	36.5	41.5	62.5	68.5	15	4.5 to 9.9	80
VSP-LFD50-20B*-6T		4									
VSP-LFD50-25B*-4T	50	2.5	128.5	32	41.5	46.5	72.5	78.5	20	4.5 to 14.9	84
VSP-LFD50-25B*-6T		4									

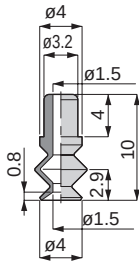
Dimensions: pad only

●VSPG-2B*



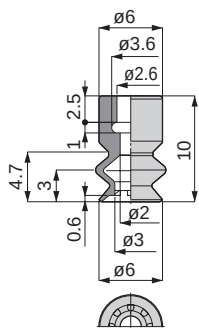
Weight: 0.2g [.3g]

●VSPG-4B*



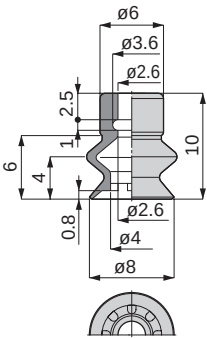
Weight: 0.2g [.3g]

●VSPG-6B*



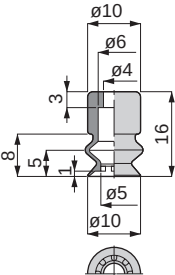
Weight: 0.3g [.4g]

●VSPG-8B*



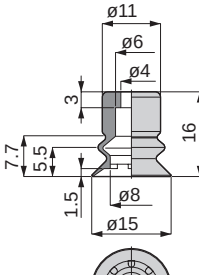
Weight: 0.3g [.4g]

●VSPG-10B*



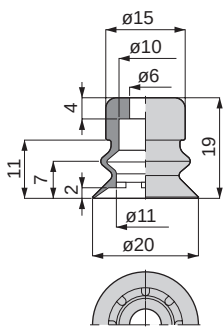
Weight: 0.8g [.2g]

●VSPG-15B*



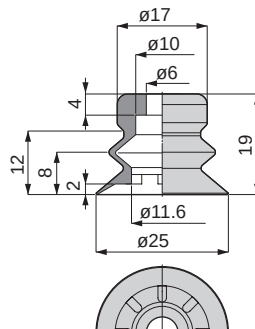
Weight: 1.1g [.7g]

●VSPG-20B*



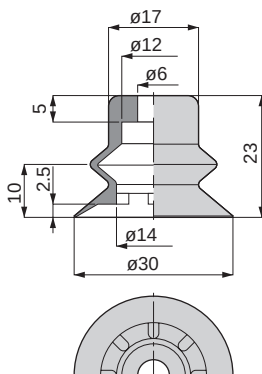
Weight: 1.9g [.0g]

●VSPG-25B*



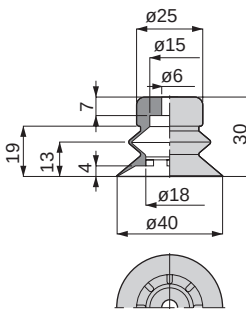
Weight: 2.7g [.2g]

●VSPG-30B*



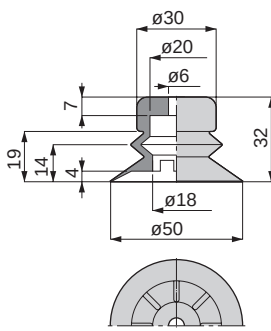
Weight: 3.5g [.5g]

●VSPG-40B*



Weight: 9.9g [.5g]

●VSPG-50B*



Weight: 14.0g [1.0g]

Suction pad
General/Deep/Compact
Sponge
BelloWS
Multi-stage bellows
Oval
Soft
Soft bellows
Anti-slip
Thin object
Flat
Suction mark prevention

* Values in [] for fluoro rubber only.

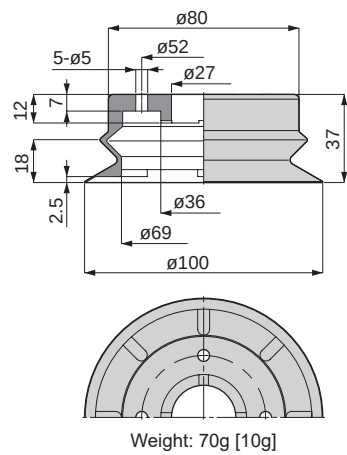
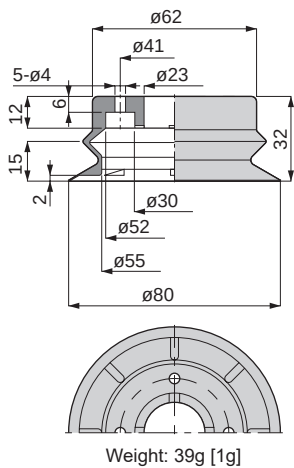
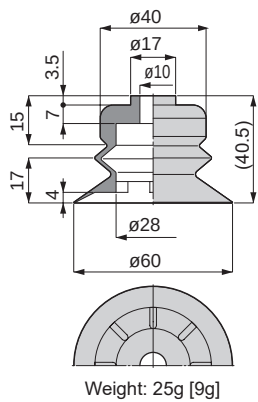
VSPG-***B*** Series

Dimensions: pad only

●VSPG-60B*

●VSPG-80B*

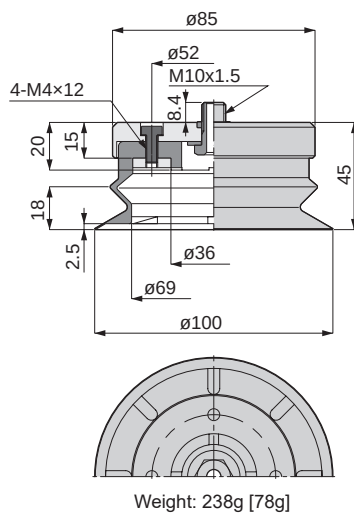
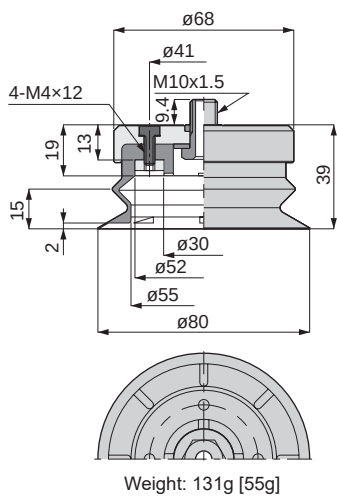
●VSPG-100B*



Pad/Threaded set dimensions

●VSPG-80B*A

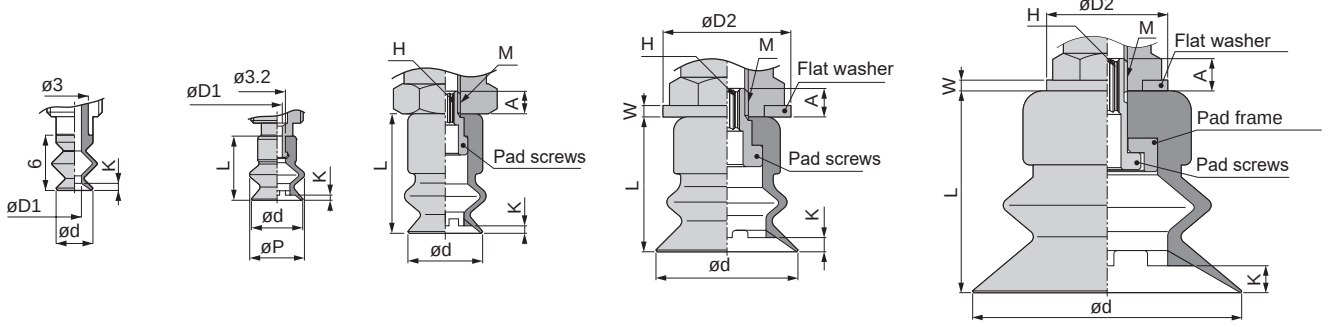
●VSPG-100B*A



* Values in [] for fluoro rubber only.

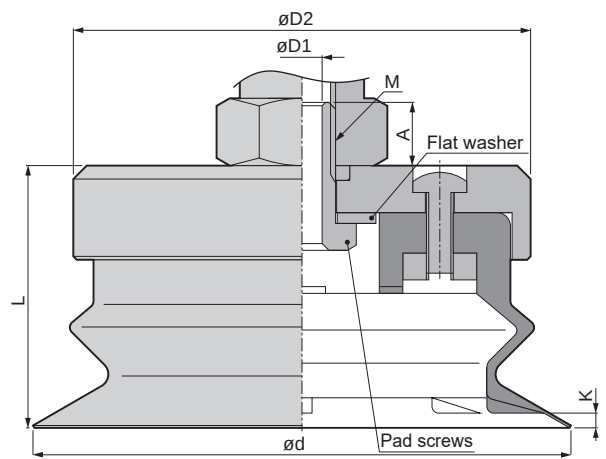
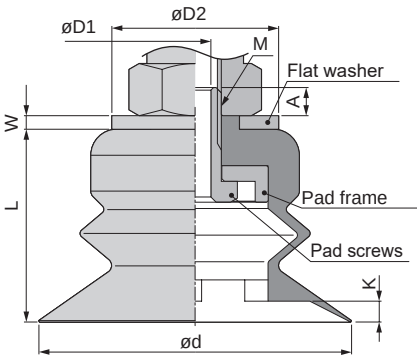
Detailed view of pad and holder connection

●VSPG-2, 4B* ●VSPG-6, 8B* ●VSPG-10, 15B*A ●VSPG-20, 25, 30B*A ●VSPG-40, 50B*A



●VSPG-60B*A

●VSPG-80, 100B*A



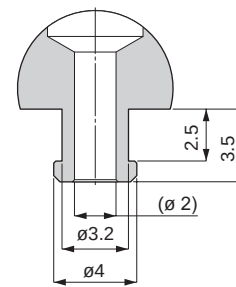
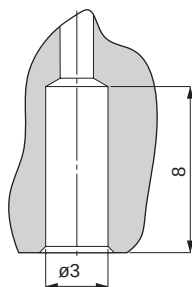
Unit: mm

Model No.	Pad diameter Ød	L	Lip internal height K	Fixing screw M	A	Hexagon H	ØD1	ØD2	ØP	W
VSPG-2B*	2	6	0.2	-	-	-	1	-	-	-
VSPG-4B*	4	6	0.8	-	-	-	1.5	-	-	-
VSPG-6B*	6	10	0.6	-	-	-	2	-	6.7	-
VSPG-8B*	8	10	0.8	-	-	-	2	-	8.6	-
VSPG-10B*A	10	16	1	M4x0.7	3	2	-	-	-	-
VSPG-15B*A	15	16	1.5	M4x0.7	3	2	-	-	-	-
VSPG-20B*A	20	19	2	M6x1	4	3	-	15.5	-	1.6
VSPG-25B*A	25	19	2	M6x1	4	3	-	15.5	-	1.6
VSPG-30B*A	30	23	2.5	M6x1	5	3	-	15.5	-	1.6
VSPG-40B*A	40	30	4	M6x1	5	3	-	22	-	1.6
VSPG-50B*A	50	32	4	M6x1	5	3	-	22	-	1.6
VSPG-60B*A	60	40.5	4	M10x1.5	5.4	14	6	32	-	2.6
VSPG-80B*A	80	39	2	M10x1.5	9.4	14	6	68	-	-
VSPG-100B*A	100	45	2.5	M10x1.5	8.4	14	6	85	-	-

Pad fitting part dimensions

●VSPG-2, 4B*

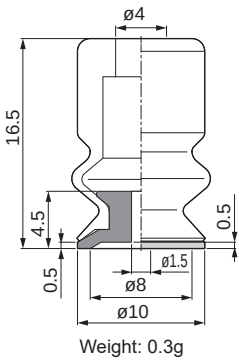
●VSPG-6, 8B*



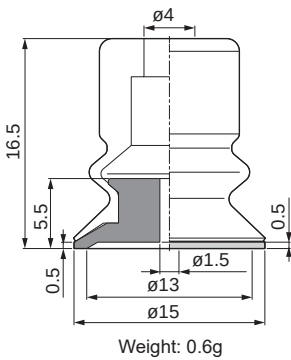
VSPG-*B* Series

Dimensions (detailed view when resin attachment is installed)

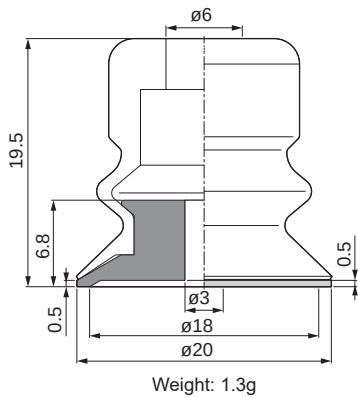
●VSPG-10BQ*



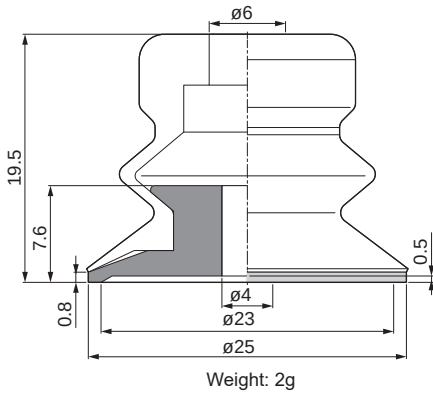
●VSPG-15BQ*



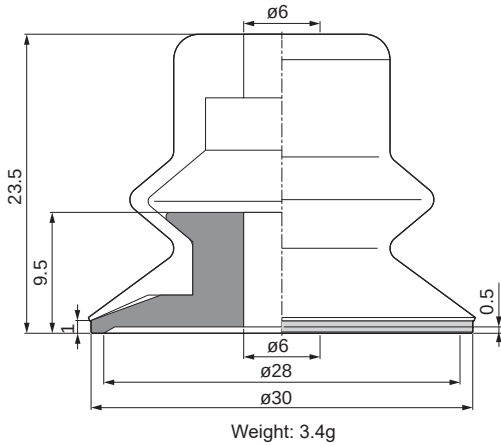
●VSPG-20BQ*



●VSPG-25BQ*



●VSPG-30BQ*



W*eight is the value for resin attachments only.

Suction pad
General/Deep/Compact
Sponge
Bel lows
Multi-stage bellows
Oval
Soft
Soft bellows
Anti-slip
Thin object
Flat
Suction mark prevention

Safety precautions

WARNING

1. Use CKD's "suction pad bellows type" for the pad rubber for mounting the suction mark prevention resin attachment. If improperly shaped suction mark prevention resin attachments or pad rubber are used, dislocation of the resin attachment and large amounts of leakage will occur.
2. Because of the characteristics of the bellows pad material, the pads may stick to each other, so please check with the actual device.
In addition, since stickiness may increase due to the operating environment and pad wear, review as necessary the pad shape, material, quantity, etc.
3. Use the bellows type in a manner that it does not over-compress. If it is compressed too much, the bellows part may wear quickly, or cracks in the lip part may occur, or deformation due to strain may cause suction failure.

CAUTION

1. Compared to conventional rubber suction pads, the suction mark prevention resin attachment for the lip portion reduces suction marks; however, confirm with an actual device the effects to the suction marks on the workpieces are acceptable.
2. The suction mark prevention resin attachment has a greater impact on leakage from the suction surface than conventional rubber suction pads. Note that vacuum hold is not possible. Also, minimize pressure drop due to leakage by keeping the vacuum flow rate as large as possible.
3. Clean the suction surface of the suction pad before use. Deposits may remain as suction marks. Be careful not to scratch the suction surface while cleaning, and do not use organic solvents.
4. Select a material that suits the working conditions for the pad rubber for mounting the suction mark prevention resin attachment.
5. Pad rubber material: Do not use the suction mark prevention resin attachment for ultra-soft silicone or suction pads with surface treatment options selected.
6. Pad O.D.: Pad frames with ϕ of 80 mm or more have no conductivity. When using a vacuum pad of conductive material, take measures to let electricity pass directly from the pad rubber.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention



Suction pad multi-stage bellows VSP-*W* Series

Suction pad that molds softly to the workpiece with multi-stage bellows structure



The 4-stage bellows (bellows) track to the curved workpiece and suction securely by extending and contracting the bellows, making it ideal for transporting retort-packs or bags containing food, etc.

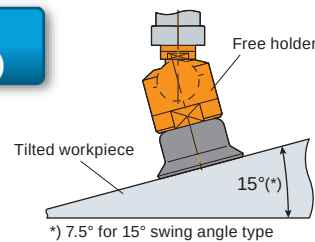
A wide range of holder variations

Shape	18types	Pipingconnection	6types	Stroke	12types
- Standard 6 types - Compact 5 types - Low dust	- generation... 2 types - Lightweight, 3 types - Low height: 2 types	- Push-in fitting (ø1.8 to ø6) Three types - Barbed fitting (ø4, ø6) Two types - Screw-in (M5) 1 type		2mm to 50mm (Depends on pad diameter and holder)	

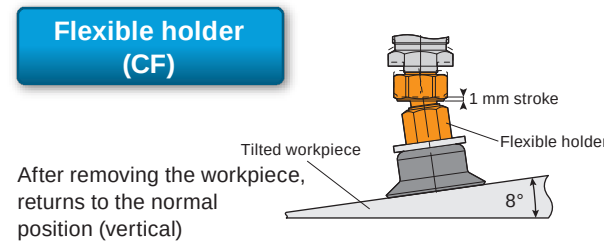
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle

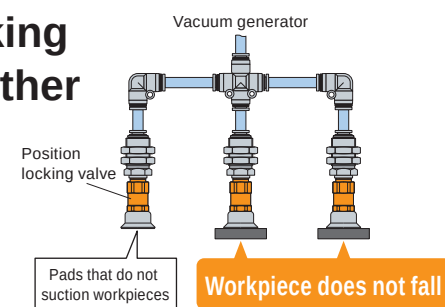
Free holder
(F1:30°, F2:15°)



Flexible holder
(CF)



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece

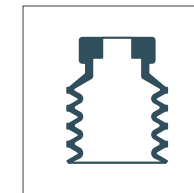


Pad surface treatment (option) is available for special treatment to reduce suction marks

	-DL	-ER	-FG
Surface-treated	Anti-sticking	Suction mark relief	Fluorine coating
Compatible materials	Silicone Fluorine Conductive silicone	Nitriles Conductive NBR (low resistance)	Silicone Conductive silicone super-soft silicone
Features	Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

VSP-*W* Series

Pad shape



4-stage bellows

It can greatly track to changes in the height of the workpiece in contact with it and to surface tilting.

Recommended workpiece

Retort-packs and bags containing food etc.



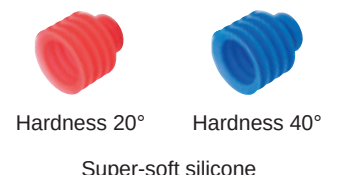
Pad diameter

7 types: 6, 8, 10, 20, 30, 40, 50

Pad material

10 types

Nitriles	Silicone	Urethane	Fluorine
Conductive NBR (low resistance)	NBR compatible with the Food Sanitation Act	HNBR	
EPDM	Ultra-soft silicone hardness 20°	Ultra-soft silicone hardness 40°	



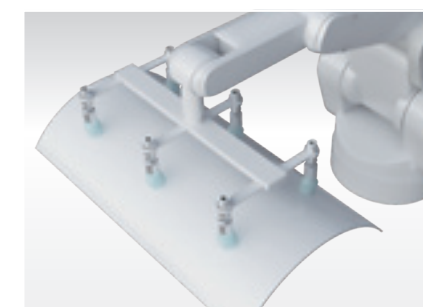
*Ultra-soft silicone (YS2, YS4) is compliant with the Food Sanitation Act and the FDA. Compatible with the Food Sanitation Act NBR (G) and silicone (S) are compatible with the Food Sanitation Act. (holder is not supported/suction pad is compatible only with workpiece contact part)

Solution examples

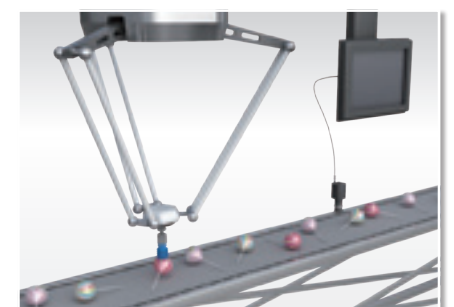
When the suction surface is not flat
It flexibly track and suction uneven workpieces such as retort-packs or workpieces with variable suction surface height.



Workpiece with curved suction surface
The bellows track with the slope of the workpiece surface and can be suctioned.



Workpieces with irregular suction surface
The surface shape like packaging candy provides high track performance for irregular workpieces.



How to order

●Multi-stage bellows

Suction pad

VSP - C 30 -20 W N -ER - 6 - F1 V

Model No. 1 Holder type 2 Pad diameter 3 Stroke option 4 Pad shape 5 Pad material 6 Surface-treated 7 Port size/shape 8 Buffer load 9 Pad Swinging 10 Position locking valve

Pad rubber only

VSPG - 30 W N -ER

Model No. 2 Pad diameter 4 Pad shape 5 Pad material 6 Surface-treated

Pad rubber + set with fixing screw

VSPG - 30 W N -ER A

Model No. 2 Pad diameter 4 Pad shape 5 Pad material 6 Surface-treated

1 Holder type

With/without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
			MA	
			HE	
	Compact	Lateral direction	B	
			MB	
			HE	
	Low height	Both lateral directions	HEW	
			E	
			ME	
	Standard	Direct mounting	E	
	Compact	Direct mounting	ME	

With/without buffer	Type	Vacuum outlet	Code	
Buffer type	Standard	Upward direction	C	
			MC	
			LFC	
			HC	
	Compact	Lateral direction	D	
			MD	
			LFD	
			HD	
	Lightweight	Both lateral directions	HDW	
			F	

2 Pad diameter

Pad diameter	Pad material										Code
	N	S	YS2	YS4	U	F	NE	G	HN	EP	
ø6	●	●				●	●	●	●	●	6
ø8	●	●				●	●	●	●	●	8
ø10	●	●	*1	*1	●	●	●	●	●	●	10
ø20	●	●	●	●	●	●	●	●	●	●	20
ø30	●	●	●	●	●	●	●	●	●	●	30
ø40	●	●	●	●	●	●	●	●	●	●	40
ø50	●	●	●	●	●	●	●	●	●	●	50

*1: 2 10 5YS2 and YS4 are available only when 6-FG is selected.

4 Pad shape

Code	Description
W	Multi-stage bellows Type

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
YS2	Super soft silicone rubber (hardness 20°)
YS4	Super soft silicone rubber (hardness 40°)
U	Urethane rubber
F	Fluoro rubber
NE	Conductive NBR (low resistance)
G	NBR compatible with the Food Sanitation Act
HN	HNBR
EP	EPDM

3 Stroke option

Description	Holder type						Code
	C	D	HC	LFC	LFD		
Specified stroke or without buffer	●	●					Blank
Stroke 2 mm				●			-2
Stroke 5 mm				●	●		-5
Stroke 10 mm	●	●	●	●	●		-10
Stroke 15 mm	●	●	●	●	●		-15
Stroke 20 mm	●	●	●	●	●		-20
Stroke 25 mm			●				-25
Stroke 30 mm	●	●	●				-30
Stroke 40 mm	●	●	●				-40
Stroke 50 mm	●	●	●				-50

*1: Blank for models other than C, D, HC, LFC, LFD.

*2: For a designated stroke with blank, check the stroke dimensions with a dimensions.

*3: For 6 to 10, -2 can be selected.

6 Surface-treated

Description	Compatible pad material						Supported pad diameter	Code
	N	S	YS2	YS4	F	NE		
No surface treatment	All pads material, all pad diameters							Blank
Anti-stick special coating	●				●		ø10, ø20	-DL
Suction mark reduction surface modification	●					●	ø6 to ø50	-ER
Fluorine coating	●	●	●				ø6 to ø50	-FG

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

7 Port size/shape

Description	Holder type																Code
	A	B	C	D	MA	MB	MC	MD	ME	LFC	LFD	HC	HD	HDW	HE	HEW	
(1: For E and F)																	Blank
ø1.8 push-in fitting		●	●	●	●	●	●	●				●	●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	4
ø6 push-in fitting	●	●	●	●		●		●		●	●	●	●	●	●	●	6
ø4 Push-in fitting, without spring cover			●	●													4C
ø6 Push-in fitting, without spring cover			●	●													6C
ø4 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●													4TC
ø6 Barbed fitting, without spring cover			●	●													6TC
M5x0.8									●								M5

*1: 1 If -20 to -50 is available for C and D, 4C, 6C, 4TC, 6TC can be selected. *2: 2 The available port size and shape differ depending on the pad diameter. Check with the combination table below.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1

*2

1*1: Blank for models other than 3-LFC.
*2: In the case of -2, it will be blank.

9 Swiveling pad

Code	Description	
Blank	None	
F1	Free holder Swinging With angle 30°	
F2	Free holder Swinging With angle 15°	
CF	Flexible Holder With angle 8°	

*1: When 10 to 50, F1 and F2 can be selected.

*2: For E, ME and 10 to 50, CF can be selected.

10 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

*1: For E, ME and 10 to 50, V can be selected.

Holder shape - pad diameter - pad shape - port size/shape combinations

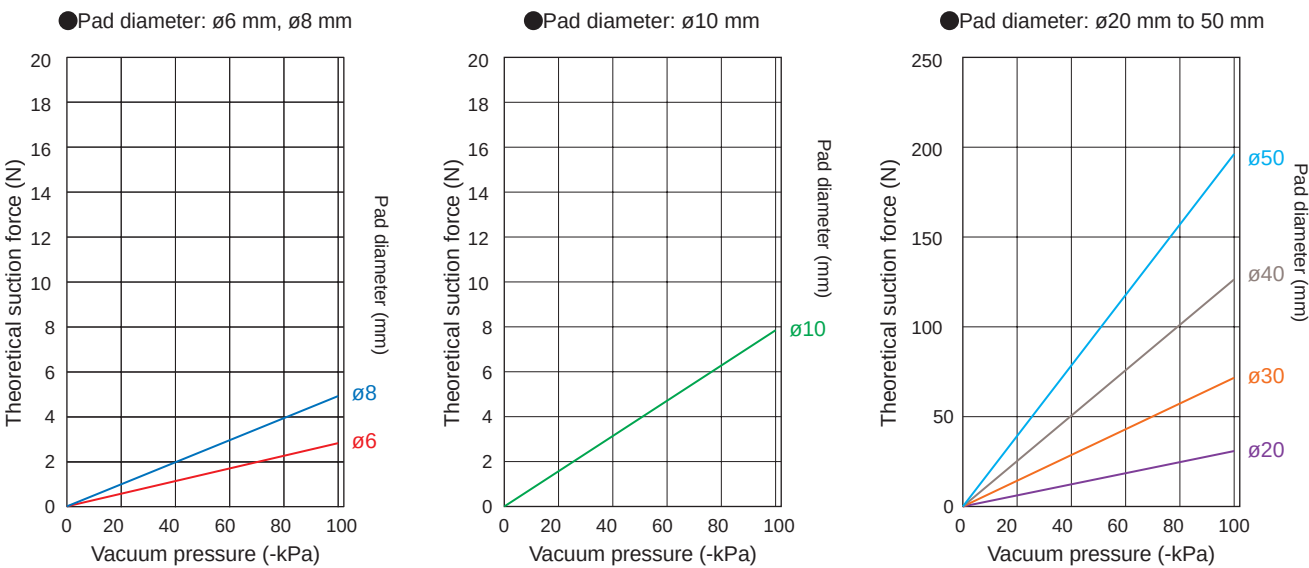
Holder type	Pad diameter	Push-in fitting						Barbed fitting					
		ø1.8	ø4	ø6	ø4	ø6		ø4	ø6				
		2	4	6	4T	6T		4T	6T				
A	ø6 to ø8	●		●		●		●					
	ø10			●		●		●					
	ø20 to ø50		●			●		●					
B	ø6 to ø8	●	●	●	●	●		●	●				
	ø10 to ø50		●		●	●		●	●				
C	ø6 to ø8	●	●	●	●	●		●	●				
	ø10 to ø50		●	●	●	●		●	●				
D	ø6 to ø8	●	●	●	●	●		●	●				
	ø10 to ø50		●	●	●	●		●	●				
MA	ø6 to ø8	●				●							
	ø10		●			●							
	ø20 to ø50		●			●							
MB	ø6 to ø8	●	●			●		●	●				
	ø10 to ø50	●	●	●	●	●		●	●				
MC	ø6 to ø8	●				●		●	●				
	ø10 to ø50	●	●			●		●	●				
MD	ø6 to ø8	●	●			●		●	●				
	ø10 to ø50	●	●	●	●	●		●	●				
LFC	ø6 to ø10		●			●		●	●				
	ø20 to ø50		●			●		●	●				
LFD	ø6 to ø10		●			●		●	●				
	ø20 to ø50		●			●		●	●				
HC	ø10 to ø50	●	●	●	●	●		●	●				
HD	All sizes	●	●	●	●	●		●	●				
HDW	All sizes	●	●	●	●	●		●	●				
HE	All sizes	●	●	●	●	●		●	●				
HEW	All sizes	●	●	●	●	●		●	●				

Holder type	Pad diameter	Thread	
		M5	Blank
E	ø6 to ø8	●	

Holder type	Pad diameter	Thread	
		M10	M14
F	ø6 to ø8	●	
	ø10 to ø50		●

Holder type	Pad diameter	Thread	
		M5	Blank
ME	ø6 to ø8	●	

Theoretical suction force



For multi-stage bellows type suction force, it may not be possible to secure the calculated suction force (theoretical suction force × safety factor) due to the effect of pad characteristics such as degree of vacuum/pad material/suctioned object. Before selection, use the suction force obtained by “Selection method of suction pad” (page 288) as a guide, and make sure that there are no problems with the suction capacity on the actual machine. In addition, the multi-stage bellows type is not suitable for vertical lifting. In order to use, check sufficiently with the actual device.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

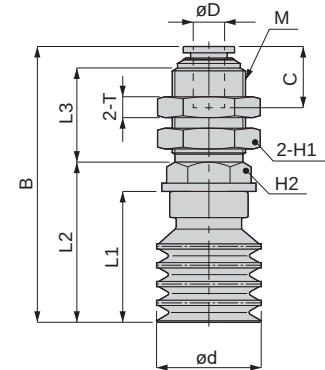
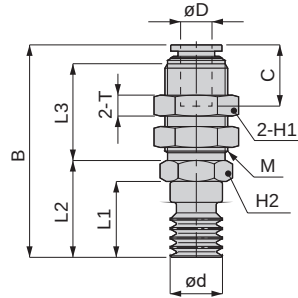
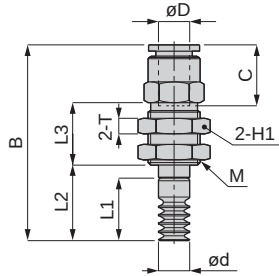
Suction mark
prevention

Dimensions (fixed, vacuum outlet, top, VSP-A, push-in fitting)

●VSP-A6, 8W*-4/6

●VSP-A10W*-6

●VSP-A20 to 50W*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	Tube end C	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A6W*-4	6	4	M8x0.75	37.1	12	14.5	12	11.2	10	—	2	8.5
VSP-A6W*-6		6	M10x1	37.8				11.9	12		3	13
VSP-A8W*-4	8	4	M8x0.75	37.6	12.5	15	12	11.2	10	—	2	8.5
VSP-A8W*-6		6	M10x1	38.3				11.9	12		3	13
VSP-A10W*-6	10	6	M12x1	40.8	14.5	18.5	18.5	11.9	14	12	4	22
VSP-A20W*-4	20	4	M12x1	61.9	25	31	18	11.2	14	12	4	31
VSP-A20W*-6		6	M14x1	52.9		30.6		11.9	17	14		37
VSP-A30W*-4	30	4	M12x1	75.4	38.5	44.5	18	11.2	14	12	4	37
VSP-A30W*-6		6	M14x1	66.4		44.1		11.9	17	14		43
VSP-A40W*-4	40	4	M12x1	81.9	45	51	18	11.2	14	12	4	47
VSP-A40W*-6		6	M14x1	72.9		50.6		11.9	17	14		53
VSP-A50W*-4	50	4	M12x1	92.9	56	62	18	11.2	14	12	4	58
VSP-A50W*-6		6	M14x1	83.9		61.6		11.9	17	14		64

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

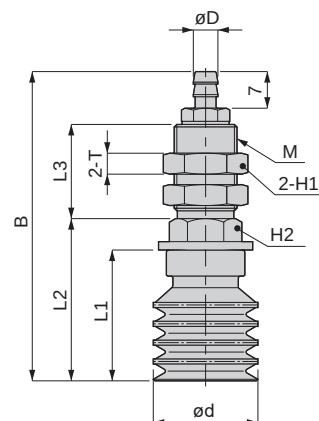
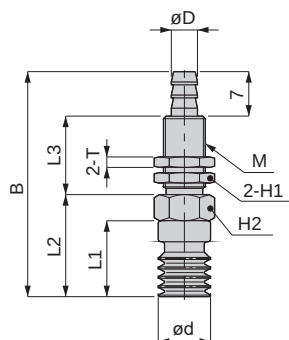
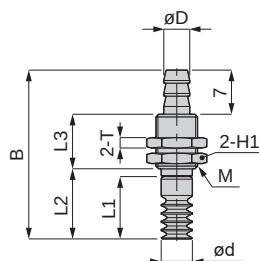
Suction mark
prevention

Dimensions (fixed, vacuum outlet, top, VSP-A, barbed fitting)

●VSP-A6, 8W*-4T/6T

●VSP-A10W*-6T

●VSP-A20 to 50W*-4T/6T



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

Unit: mm

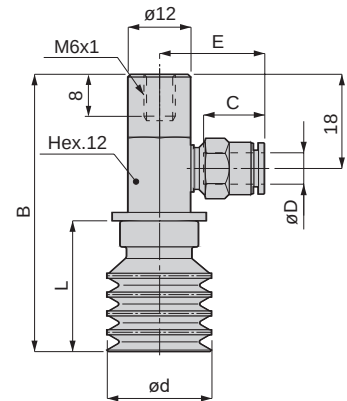
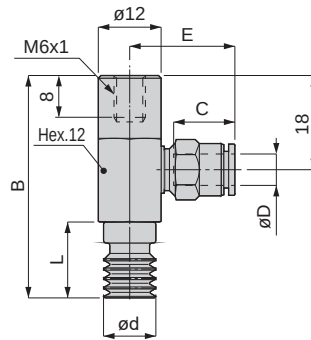
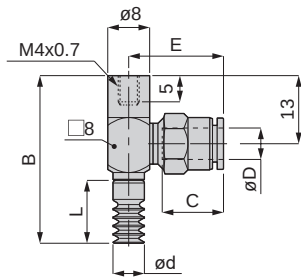
One mm											
Model No.	Pad diameter øD	Bore size øD	Mounting screw M	B	L1	L2	L3	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A6W*-4T	6	2.5	M5x0.5	29.5	12	14.5	8	8	—	2	6
VSP-A6W*-6T		4	M8x0.75	31		13.5	10.5	10			8
VSP-A8W*-4T	8	2.5	M5x0.5	30	12.5	15	8	8	—	2	6
VSP-A8W*-6T		4	M8x0.75	31.5		14	10.5	10			8
VSP-A10W*-6T	10	4	M8x0.75	41.5	14.5	19.5	15	10	10	2	12
VSP-A20W*-4T	20	2.5	M12x1	59	25	31	18	14	12	4	31
VSP-A20W*-6T		4									
VSP-A30W*-4T	30	2.5	M12x1	72.5	38.5	44.5	18	14	12	4	37
VSP-A30W*-6T		4									
VSP-A40W*-4T	40	2.5	M12x1	79	45	51	18	14	12	4	46
VSP-A40W*-6T		4									
VSP-A50W*-4T	50	2.5	M12x1	90	56	62	18	14	12	4	58
VSP-A50W*-6T		4									

Dimensions (fixed, vacuum outlet, side, VSP-B, push-in fitting)

●VSP-B6, 8W*-2/4/6

●VSP-B10W*-4/6

●VSP-B20 to 50W*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B6W*-2	6	1.8	32	12	8.4	12.7	12
VSP-B6W*-4		4			11.2	16.8	13
VSP-B6W*-6		6			11.9	18.6	14
VSP-B8W*-2	8	1.8	32.5	12.5	8.4	12.7	12
VSP-B8W*-4		4			11.2	16.8	13
VSP-B8W*-6		6			11.9	18.6	14
VSP-B10W*-4	10	4	42.5	14.5	11.2	18.8	30
VSP-B10W*-6		6			11.9	20.1	31
VSP-B20W*-4	20	4	53	25	11.2	18.8	34
VSP-B20W*-6		6			11.9	20.1	35
VSP-B30W*-4	30	4	66.5	38.5	11.2	18.8	40
VSP-B30W*-6		6			11.9	20.1	41
VSP-B40W*-4	40	4	73	45	11.2	18.8	49
VSP-B40W*-6		6			11.9	20.1	50
VSP-B50W*-4	50	4	84	56	11.2	18.8	61
VSP-B50W*-6		6			11.9	20.1	62

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

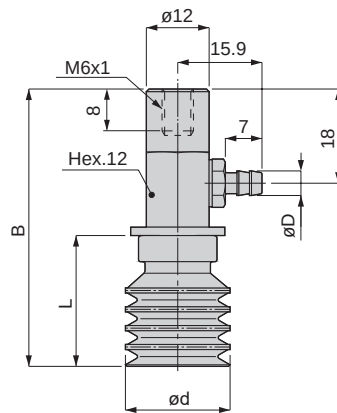
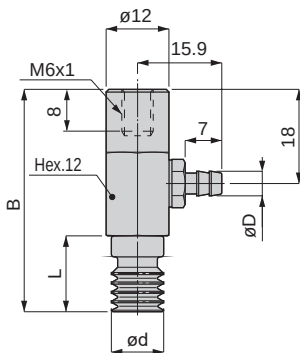
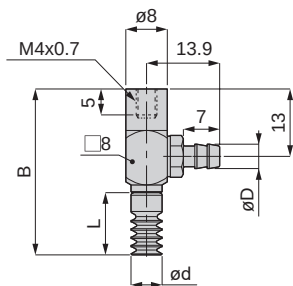
VSP-***W*** Series

Dimensions (fixed, vacuum outlet, side, VSP-B, barbed fitting)

●VSP-B6, 8W*-4T/6T

●VSP-B10W*-4T/6T

●VSP-B20 to 50W*-4T/6T



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

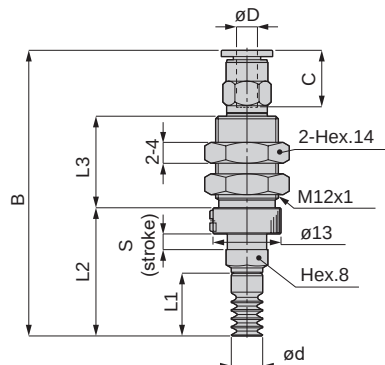
Flat

Suction mark
prevention

Unit: mm					
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-B6W*-4T	6	2.5	32	12	13
VSP-B6W*-6T		4			
VSP-B8W*-4T	8	2.5	32.5	12.5	13
VSP-B8W*-6T		4			
VSP-B10W*-4T	10	2.5	42.5	14.5	29
VSP-B10W*-6T		4			
VSP-B20W*-4T	20	2.5	53	25	33
VSP-B20W*-6T		4			
VSP-B30W*-4T	30	2.5	66.5	38.5	39
VSP-B30W*-6T		4			
VSP-B40W*-4T	40	2.5	73	45	48
VSP-B40W*-6T		4			
VSP-B50W*-4T	50	2.5	84	56	60
VSP-B50W*-6T		4			

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C6, 8W*-2/4/6
- VSP-C6, 8-□W*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C6W*-2	6	1.8	46.4	12	24.5	13	8.4	3	0.9 to 1.9	18
VSP-C6W*-4		4	50.5				11.2			19
VSP-C6W*-6		6	52.3				11.9			20
VSP-C6-10W*-2		1.8	57.9		31.5	17.5	8.4	10	0.8 to 2.7	19
VSP-C6-10W*-4		4	62				11.2			20
VSP-C6-10W*-6		6	63.8				11.9			21
VSP-C6-15W*-2		1.8	68.9		36.5	23.5	8.4	15	0.7 to 3.0	23
VSP-C6-15W*-4		4	73				11.2			24
VSP-C6-15W*-6		6	74.8				11.9			25
VSP-C6-20W*-2		1.8	78.9		41.5	28.5	8.4	20	0.9 to 3.4	24
VSP-C6-20W*-4		4	83				11.2			25
VSP-C6-20W*-6		6	84.8				11.9			26
VSP-C8W*-2	6	1.8	46.9	12.5	25	13	8.4	3	0.9 to 1.9	18
VSP-C8W*-4		4	51				11.2			19
VSP-C8W*-6		6	52.8				11.9			20
VSP-C8-10W*-2		1.8	58.4		32	17.5	8.4	10	0.8 to 2.7	19
VSP-C8-10W*-4		4	62.5				11.2			20
VSP-C8-10W*-6		6	64.3				11.9			21
VSP-C8-15W*-2		1.8	69.4		37	23.5	8.4	15	0.7 to 3.0	23
VSP-C8-15W*-4		4	73.5				11.2			24
VSP-C8-15W*-6		6	75.3				11.9			25
VSP-C8-20W*-2		1.8	79.4		42	28.5	8.4	20	0.9 to 3.4	25
VSP-C8-20W*-4		4	83.5				11.2			26
VSP-C8-20W*-6		6	85.3				11.9			27

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

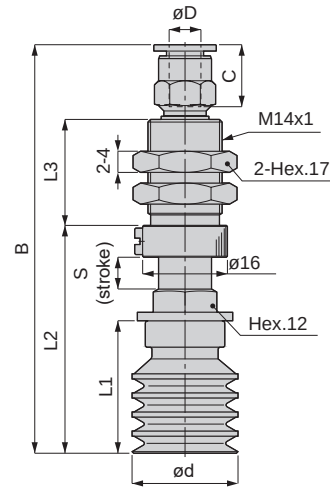
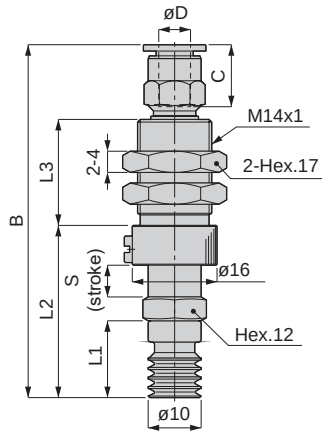
Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

●VSP-C10W*-4/6

●VSP-C10-□W*-4/6

●VSP-C20 to 50W*-4/6

●VSP-C20 to 50-□W*-4/6

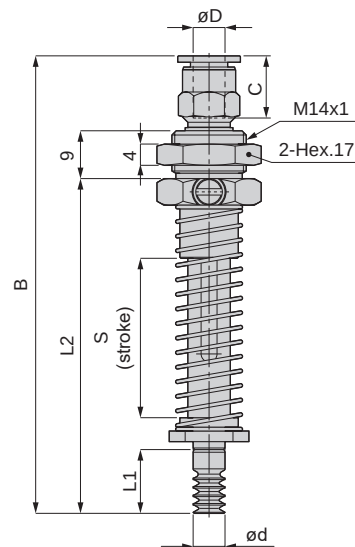


Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
Suction pad	VSP-C10W*-4	10	4	65.5	14.5	32.5	20	11.2	6	4.0 to 7.1	35
	VSP-C10W*-6		6	66.8				11.9			36
Suction pad	VSP-C10-10W*-4		4	70		37	20	11.2	10	2.0 to 5.2	36
	VSP-C10-10W*-6		6	71.3				11.9			37
Suction pad	VSP-C10-15W*-4		4	80		42	25	11.2	15	2.0 to 5.9	41
	VSP-C10-15W*-6		6	81.3				11.9			42
Suction pad	VSP-C10-20W*-4		4	96		49	34	11.2	20	1.1 to 4.8	49
	VSP-C10-20W*-6		6	97.3				11.9			50
Suction pad	VSP-C20W*-4	20	4	76	25	43	20	11.2	6	7.0 to 12.6	39
	VSP-C20W*-6		6	77.3				11.9			40
Suction pad	VSP-C20-10W*-4		4	82		49	20	11.2	10	3.3 to 10.0	41
	VSP-C20-10W*-6		6	83.3				11.9			42
Suction pad	VSP-C20-15W*-4		4	92		54	25	11.2	15	3.3 to 10.4	46
	VSP-C20-15W*-6		6	93.3				11.9			47
Suction pad	VSP-C20-20W*-4		4	110		61	34	11.2	20	2.0 to 8.7	53
	VSP-C20-20W*-6		6	109.3				11.9			54
Suction pad	VSP-C30W*-4	30	4	89.5	38.5	56.5	20	11.2	6	7.0 to 12.6	46
	VSP-C30W*-6		6	90.8				11.9			47
Suction pad	VSP-C30-10W*-4		4	95.5		62.5	20	11.2	10	3.3 to 10.0	49
	VSP-C30-10W*-6		6	96.8				11.9			50
Suction pad	VSP-C30-15W*-4		4	105.5		67.5	25	11.2	15	3.3 to 10.4	52
	VSP-C30-15W*-6		6	106.8				11.9			53
Suction pad	VSP-C30-20W*-4		4	121.5		74.5	34	11.2	20	2.0 to 8.7	59
	VSP-C30-20W*-6		6	122.8				11.9			60
Suction pad	VSP-C40W*-4	40	4	96	45	63	20	11.2	6	7.0 to 12.6	55
	VSP-C40W*-6		6	97.3				11.9			56
Suction pad	VSP-C40-10W*-4		4	102		69	20	11.2	10	3.3 to 10.0	59
	VSP-C40-10W*-6		6	103.3				11.9			60
Suction pad	VSP-C40-15W*-4		4	112		74	25	11.2	15	3.3 to 10.4	63
	VSP-C40-15W*-6		6	113.3				11.9			64
Suction pad	VSP-C40-20W*-4		4	128		81	34	11.2	20	2.0 to 8.7	69
	VSP-C40-20W*-6		6	129.3				11.9			70
Suction pad	VSP-C50W*-4	50	4	107	56	74	20	11.2	6	7.0 to 12.6	66
	VSP-C50W*-6		6	108.3				11.9			67
Suction pad	VSP-C50-10W*-4		4	113		80	20	11.2	10	3.3 to 10.0	70
	VSP-C50-10W*-6		6	114.3				11.9			71
Suction pad	VSP-C50-15W*-4		4	123		85	25	11.2	15	3.3 to 10.4	74
	VSP-C50-15W*-6		6	124.3				11.9			75
Suction pad	VSP-C50-20W*-4		4	139		92	34	11.2	20	2.0 to 8.7	80
	VSP-C50-20W*-6		6	140.3				11.9			81

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C6, 8-□W*-4C/6C



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C6-20W*-4C	6	4	72	12	50	11.2	20	1.5 to 4.9	43
VSP-C6-20W*-6C		6	73.3			11.9			44
VSP-C6-30W*-4C		4	85		63	11.2	30	1.1 to 4.8	48
VSP-C6-30W*-6C		6	86.3			11.9			49
VSP-C6-40W*-4C		4	98		76	11.2	40	1.0 to 4.5	54
VSP-C6-40W*-6C		6	99.3			11.9			55
VSP-C6-50W*-4C		4	111		89	11.2	50	0.9 to 4.5	59
VSP-C6-50W*-6C		6	112.3			11.9			60
VSP-C8-20W*-4C	8	4	72.5	12.5	50.5	11.2	20	1.5 to 4.9	43
VSP-C8-20W*-6C		6	73.8			11.9			44
VSP-C8-30W*-4C		4	85.5		63.5	11.2	30	1.1 to 4.8	48
VSP-C8-30W*-6C		6	86.8			11.9			49
VSP-C8-40W*-4C		4	98.5		76.5	11.2	40	1.0 to 4.5	54
VSP-C8-40W*-6C		6	99.8			11.9			55
VSP-C8-50W*-4C		4	111.5		89.5	11.2	50	0.9 to 4.5	59
VSP-C8-50W*-6C		6	112.8			11.9			60

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

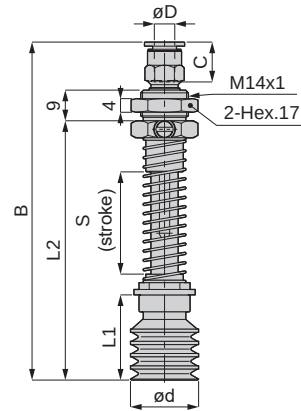
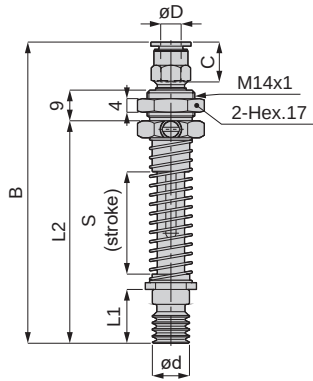
Suction mark
prevention

VSP-*W* Series

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C10-□W*-4C/6C

●VSP-C20 to 50-□W*-4C/6C



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

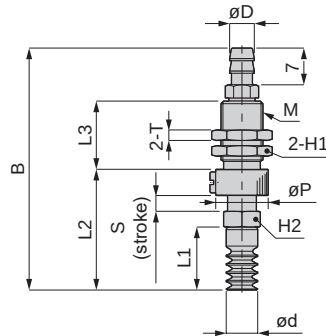
Suction mark
prevention

Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C10-20W*-4C	10	4	73	14.5	51	11.2	20	1.5 to 4.9	43
VSP-C10-20W*-6C		6	74.3			11.9			44
VSP-C10-30W*-4C		4	86		64	11.2	30	1.1 to 4.8	49
VSP-C10-30W*-6C		6	87.3			11.9			50
VSP-C10-40W*-4C		4	99		77	11.2	40	1.0 to 4.5	54
VSP-C10-40W*-6C		6	100.3			11.9			55
VSP-C10-50W*-4C		4	112		90	11.2	50	0.9 to 4.5	59
VSP-C10-50W*-6C		6	113.3			11.9			60
VSP-C20-20W*-4C	20	4	85	25	63	11.2	20	1.5 to 4.9	49
VSP-C20-20W*-6C		6	86.3			11.9			50
VSP-C20-30W*-4C		4	98		76	11.2	30	1.1 to 4.8	54
VSP-C20-30W*-6C		6	99.3			11.9			55
VSP-C20-40W*-4C		4	111		89	11.2	40	1.0 to 4.5	59
VSP-C20-40W*-6C		6	112.3			11.9			60
VSP-C20-50W*-4C		4	124		102	11.2	50	0.9 to 4.5	64
VSP-C20-50W*-6C		6	125.3			11.9			65
VSP-C30-20W*-4C	30	4	98.5	38.5	76.5	11.2	20	1.5 to 4.9	52
VSP-C30-20W*-6C		6	99.8			11.9			53
VSP-C30-30W*-4C		4	111.5		89.5	11.2	30	1.1 to 4.8	57
VSP-C30-30W*-6C		6	112.8			11.9			58
VSP-C30-40W*-4C		4	124.5		102.5	11.2	40	1.0 to 4.5	63
VSP-C30-40W*-6C		6	125.8			11.9			64
VSP-C30-50W*-4C		4	137.5		115.5	11.2	50	0.9 to 4.5	68
VSP-C30-50W*-6C		6	138.8			11.9			69
VSP-C40-20W*-4C	40	4	105	45	73	11.2	20	1.5 to 4.9	61
VSP-C40-20W*-6C		6	106.3			11.9			62
VSP-C40-30W*-4C		4	118		86	11.2	30	1.1 to 4.8	66
VSP-C40-30W*-6C		6	119.3			11.9			67
VSP-C40-40W*-4C		4	131		99	11.2	40	1.0 to 4.5	71
VSP-C40-40W*-6C		6	132.3			11.9			72
VSP-C40-50W*-4C		4	144		112	11.2	50	0.9 to 4.5	77
VSP-C40-50W*-6C		6	145.3			11.9			78
VSP-C50-20W*-4C	50	4	116	56	84	11.2	20	1.5 to 4.9	67
VSP-C50-20W*-6C		6	117.3			11.9			68
VSP-C50-30W*-4C		4	129		97	11.2	30	1.1 to 4.8	72
VSP-C50-30W*-6C		6	130.3			11.9			73
VSP-C50-40W*-4C		4	142		110	11.2	40	1.0 to 4.5	77
VSP-C50-40W*-6C		6	143.3			11.9			78
VSP-C50-50W*-4C		4	155		123	11.2	50	0.9 to 4.5	82
VSP-C50-50W*-6C		6	156.3			11.9			83

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C6, 8W*-4T/6T
- VSP-C6, 8-□W*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Hexagon H1	Hexagon H2	T	Stroke S	Spring force (N)	Weight (g)
VSP-C6W*-4T	6	2.5	M8x0.75	45.6	12	23	13	10	10	7	2	3	0.9 to 1.9	10
VSP-C6W*-6T		4												
VSP-C6-10W*-4T		2.5	M12x1	59.1		31.5	17.5					10	0.8 to 2.7	19
VSP-C6-10W*-6T		4												
VSP-C6-15W*-4T		2.5		70.1		36.5	23.5	13	14	8	4	15	0.7 to 3.0	23
VSP-C6-15W*-6T		4												
VSP-C6-20W*-4T		2.5		80.1		41.5	28.5					20	0.9 to 3.4	25
VSP-C6-20W*-6T		4												
VSP-C8W*-4T	8	2.5	M8x0.75	46.1	12.5	23	13	10	10	7	2	3	0.9 to 1.9	10
VSP-C8W*-6T		4												
VSP-C8-10W*-4T		2.5	M12x1	59.6		31.5	17.5					10	0.8 to 2.7	19
VSP-C8-10W*-6T		4												
VSP-C8-15W*-4T		2.5		70.6		36.5	23.5	13	14	8	4	15	0.7 to 3.0	23
VSP-C8-15W*-6T		4												
VSP-C8-20W*-4T		2.5		80.6		41.5	28.5					20	0.9 to 3.4	25
VSP-C8-20W*-6T		4												

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

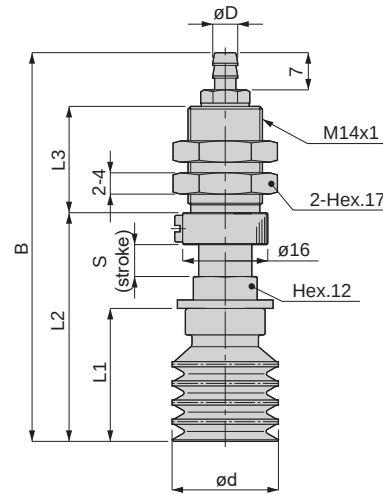
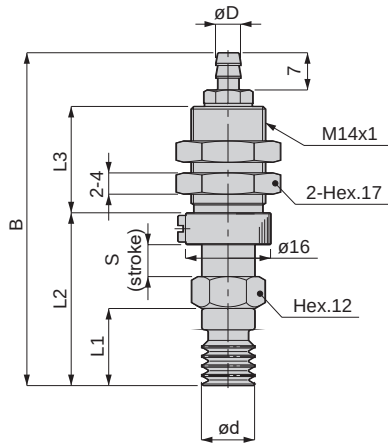
Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C10W*-4T/6T
- VSP-C10-□W*-4T/6T

- VSP-C20 to 50W*-4T/6T
- VSP-C20 to 50-□W*-4T/6T

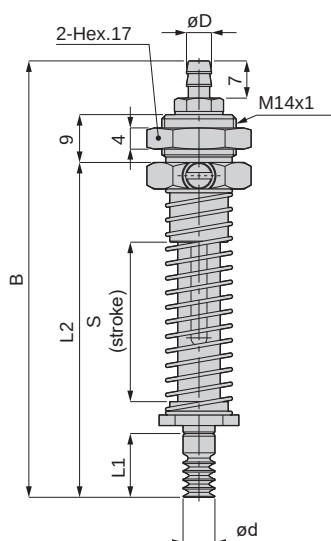


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C10W*-4T	10	2.5	62.6	14.5	32.5	20	6	4.0 to 7.1	34
VSP-C10W*-6T		4					10	2.0 to 5.2	35
VSP-C10-10W*-4T		2.5	67.1		37	15	2.0 to 5.9	40	
VSP-C10-10W*-6T		4							20
VSP-C10-15W*-4T		2.5	77.1		42	25	15	2.0 to 5.9	48
VSP-C10-15W*-6T		4							
VSP-C10-20W*-4T		2.5	93.1		49	34	20	1.1 to 4.8	48
VSP-C10-20W*-6T		4							
VSP-C20W*-4T	20	2.5	73.1	25	43	20	6	7.0 to 12.6	38
VSP-C20W*-6T		4					10	3.3 to 10.0	40
VSP-C20-10W*-4T		2.5	79.1		49	15	3.3 to 10.4	45	
VSP-C20-10W*-6T		4							20
VSP-C20-15W*-4T		2.5	89.1		54	25	15	3.3 to 10.4	52
VSP-C20-15W*-6T		4							
VSP-C20-20W*-4T		2.5	105.1		61	34	20	2.0 to 8.7	52
VSP-C20-20W*-6T		4							
VSP-C30W*-4T	30	2.5	86.6	38.5	56.5	20	6	7.0 to 12.6	41
VSP-C30W*-6T		4					10	3.3 to 10.0	44
VSP-C30-10W*-4T		2.5	92.6		62.5	15	3.3 to 10.4	49	
VSP-C30-10W*-6T		4							20
VSP-C30-15W*-4T		2.5	102.6		67.5	25	15	3.3 to 10.4	55
VSP-C30-15W*-6T		4							
VSP-C30-20W*-4T		2.5	118.6		74.5	34	20	2.0 to 8.7	55
VSP-C30-20W*-6T		4							
VSP-C40W*-4T	40	2.5	93.1	45	63	20	6	7.0 to 12.6	50
VSP-C40W*-6T		4					10	3.3 to 10.0	52
VSP-C40-10W*-4T		2.5	99.1		69	15	3.3 to 10.4	57	
VSP-C40-10W*-6T		4							20
VSP-C40-15W*-4T		2.5	109.1		74	25	15	3.3 to 10.4	64
VSP-C40-15W*-6T		4							
VSP-C40-20W*-4T		2.5	125.1		81	34	20	2.0 to 8.7	64
VSP-C40-20W*-6T		4							
VSP-C50W*-4T	50	2.5	104.1	56	74	20	6	7.0 to 12.6	56
VSP-C50W*-6T		4					10	3.3 to 10.0	58
VSP-C50-10W*-4T		2.5	110.1		80	15	3.3 to 10.4	63	
VSP-C50-10W*-6T		4							20
VSP-C50-15W*-4T		2.5	120.1		85	25	15	3.3 to 10.4	70
VSP-C50-15W*-6T		4							
VSP-C50-20W*-4T		2.5	136.1		92	34	20	2.0 to 8.7	70
VSP-C50-20W*-6T		4							

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

●VSP-C6, 8-□W*-4TC/6TC



Unit: mm

Unit: mm								
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C6-20W*-4TC	6	2.5	69.1	12	50	20	1.5 to 4.9	42
VSP-C6-20W*-6TC		4						
VSP-C6-30W*-4TC		2.5	82.1		63	30	1.1 to 4.8	47
VSP-C6-30W*-6TC		4						
VSP-C6-40W*-4TC		2.5	95.1		76	40	1.0 to 4.5	52
VSP-C6-40W*-6TC		4						
VSP-C6-50W*-4TC		2.5	108.1		89	50	0.9 to 4.5	58
VSP-C6-50W*-6TC		4						
VSP-C8-20W*-4TC	8	2.5	69.6	12.5	50.5	20	1.5 to 4.9	42
VSP-C8-20W*-6TC		4						
VSP-C8-30W*-4TC		2.5	82.6		63.5	30	1.1 to 4.8	47
VSP-C8-30W*-6TC		4						
VSP-C8-40W*-4TC		2.5	95.6		76.5	40	1.0 to 4.5	52
VSP-C8-40W*-6TC		4						
VSP-C8-50W*-4TC		2.5	108.6		89.5	50	0.9 to 4.5	58
VSP-C8-50W*-6TC		4						

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

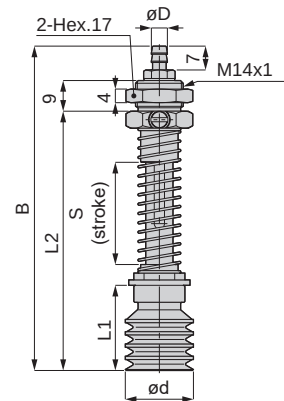
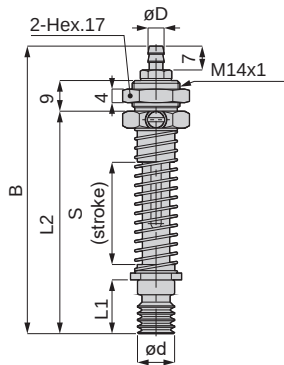
Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

●VSP-C10-□W*-4TC/6TC

●VSP-C20 to 50-□W*-4TC/6TC



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

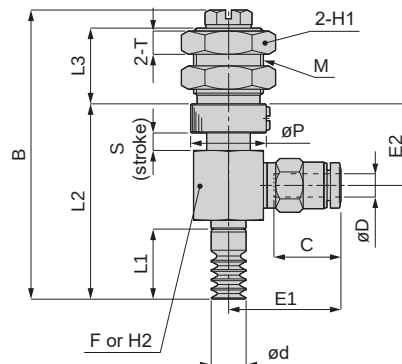
Suction mark
prevention

Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C10-20W*-4TC	10	2.5	70.1	14.5	51	20	1.5 to 4.9	43
VSP-C10-20W*-6TC		4						
VSP-C10-30W*-4TC		2.5	83.1		64	30	1.1 to 4.8	48
VSP-C10-30W*-6TC		4						
VSP-C10-40W*-4TC		2.5	96.1		77	40	1.0 to 4.5	53
VSP-C10-40W*-6TC		4						
VSP-C10-50W*-4TC		2.5	109.1		90	50	0.9 to 4.5	59
VSP-C10-50W*-6TC		4						
VSP-C20-20W*-4TC	20	2.5	82.1	25	63	20	1.5 to 4.9	48
VSP-C20-20W*-6TC		4						
VSP-C20-30W*-4TC		2.5	95.1		76	30	1.1 to 4.8	53
VSP-C20-30W*-6TC		4						
VSP-C20-40W*-4TC		2.5	108.1		89	40	1.0 to 4.5	58
VSP-C20-40W*-6TC		4						
VSP-C20-50W*-4TC		2.5	121.1		102	50	0.9 to 4.5	63
VSP-C20-50W*-6TC		4						
VSP-C30-20W*-4TC	30	2.5	95.6	38.5	76.5	20	1.5 to 4.9	50
VSP-C30-20W*-6TC		4						
VSP-C30-30W*-4TC		2.5	108.6		89.5	30	1.1 to 4.8	55
VSP-C30-30W*-6TC		4						
VSP-C30-40W*-4TC		2.5	121.6		102.5	40	1.0 to 4.5	60
VSP-C30-40W*-6TC		4						
VSP-C30-50W*-4TC		2.5	134.6		115.5	50	0.9 to 4.5	65
VSP-C30-50W*-6TC		4						
VSP-C40-20W*-4TC	40	2.5	102.1	45	73	20	1.5 to 4.9	60
VSP-C40-20W*-6TC		4						
VSP-C40-30W*-4TC		2.5	115.1		86	30	1.1 to 4.8	65
VSP-C40-30W*-6TC		4						
VSP-C40-40W*-4TC		2.5	128.1		99	40	1.0 to 4.5	70
VSP-C40-40W*-6TC		4						
VSP-C40-50W*-4TC		2.5	141.1		112	50	0.9 to 4.5	75
VSP-C40-50W*-6TC		4						
VSP-C50-20W*-4TC	50	2.5	113.1	56	84	20	1.5 to 4.9	68
VSP-C50-20W*-6TC		4						
VSP-C50-30W*-4TC		2.5	126.1		97	30	1.1 to 4.8	71
VSP-C50-30W*-6TC		4						
VSP-C50-40W*-4TC		2.5	139.1		110	40	1.0 to 4.5	76
VSP-C50-40W*-6TC		4						
VSP-C50-50W*-4TC		2.5	152.1		123	50	0.9 to 4.5	81
VSP-C50-50W*-6TC		4						

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

- VSP-D6, 8W*-2/4/6
- VSP-D6, 8-□W*-2/4/6



Unit: mm																			
Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Tube end C	E1	E2	Hexagon H1	Hexagon H2	□F	T	Stroke S	Spring force (N)	Weight (g)	
VSP-D6W*-2	6	1.8	M8x0.75	46	12	30	13	10	8.4	12.7	13	10	—	8	2	3	0.9 to 1.9	15	
VSP-D6W*-4		4							11.2	16.8								16	
VSP-D6W*-6		6							11.9	18.6								17	
VSP-D6-10W*-2		1.8		61.1		40.5	17.5		8.4	14.7	21						10	0.6 to 1.7	33
VSP-D6-10W*-4		4							11.2	18.8									34
VSP-D6-10W*-6		6							11.9	20.1									35
VSP-D6-15W*-2		1.8	M12x1	72.1		45.5	23.5	13	8.4	14.7	26	14	12	—	4	15	0.4 to 1.7	37	
VSP-D6-15W*-4		4							11.2	18.8								38	
VSP-D6-15W*-6		6							11.9	20.1								39	
VSP-D6-20W*-2		1.8		82.1		50.5	28.5		8.4	14.7	31						20	0.3 to 1.8	40
VSP-D6-20W*-4		4							11.2	18.8									41
VSP-D6-20W*-6		6							11.9	20.1									42
VSP-D8W*-2	8	1.8	M8x0.75	46.5	12.5	30.5	13	10	8.4	12.7	13	10	—	8	2	3	0.9 to 1.9	15	
VSP-D8W*-4		4							11.2	16.8								16	
VSP-D8W*-6		6							11.9	18.6								17	
VSP-D8-10W*-2		1.8		61.6		41	17.5		8.4	14.7	21						10	0.6 to 1.7	33
VSP-D8-10W*-4		4							11.2	18.8									34
VSP-D8-10W*-6		6							11.9	20.1									35
VSP-D8-15W*-2		1.8	M12x1	72.6		46	23.5	13	8.4	14.7	26	14	12	—	4	15	0.4 to 1.7	37	
VSP-D8-15W*-4		4							11.2	18.8								38	
VSP-D8-15W*-6		6							11.9	20.1								39	
VSP-D8-20W*-2		1.8		82.6		51	28.5		8.4	14.7	31						20	0.3 to 1.8	40
VSP-D8-20W*-4		4							11.2	18.8									41
VSP-D8-20W*-6		6							11.9	20.1									42

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention

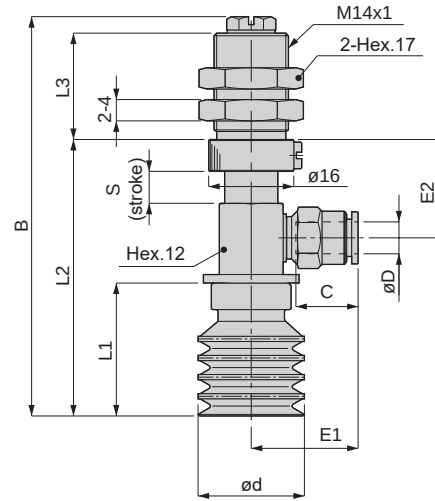
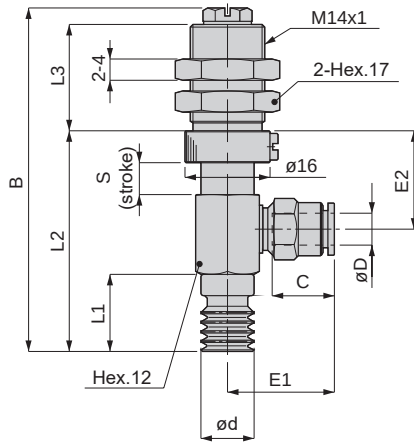
Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

●VSP-D10W*-4/6

●VSP-D10-□W*-4/-6

●VSP-D20 to 50W*-4/6

●VSP-D20 to 50-□WB*-4/-6



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

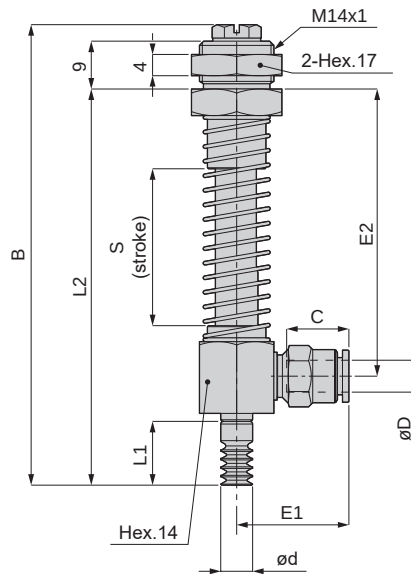
Suction mark
prevention

Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10W*-4	10	4	64.6	14.5	41.5	20	11.2	18.8	18.5	6	4.0 to 7.1	47
VSP-D10W*-6		6					11.9	20.1				48
VSP-D10-10W*-4		4	69.6		46.5	20	11.2	18.8	25	10	2.0 to 5.2	50
VSP-D10-10W*-6		6					11.9	20.1				51
VSP-D10-15W*-4		4	79.6		51.5	25	11.2	18.8	30	15	2.0 to 5.9	56
VSP-D10-20W*-6		6					11.9	20.1				57
VSP-D10-20W*-4		4	95.6		58.5	34	11.2	18.8	37	20	1.1 to 4.8	66
VSP-D10-20W*-6		6					11.9	20.1				67
VSP-D20W*-4	20	4	75.1	25	52	20	11.2	18.8	18.5	6	7.0 to 12.6	51
VSP-D20W*-6		6					11.9	20.1				52
VSP-D20-10W*-4		4	81.1		58	20	11.2	18.8	24.5	10	3.3 to 10.0	54
VSP-D20-10W*-6		6					11.9	20.1				55
VSP-D20-15W*-4		4	91.1		63	25	11.2	18.8	29.5	15	3.3 to 10.4	61
VSP-D20-15W*-6		6					11.9	20.1				62
VSP-D20-20W*-4		4	107.1		70	34	11.2	18.8	36.5	20	2.0 to 8.7	71
VSP-D20-20W*-6		6					11.9	20.1				72
VSP-D30W*-4	30	4	88.6	38.5	65.5	20	11.2	18.8	18.5	6	7.0 to 12.6	57
VSP-D30W*-6		6					11.9	20.1				58
VSP-D30-10W*-4		4	94.6		71.5	20	11.2	18.8	24.5	10	3.3 to 10.0	61
VSP-D30-10W*-6		6					11.9	20.1				62
VSP-D30-15W*-4		4	104.6		76.5	25	11.2	18.8	29.5	15	3.3 to 10.4	67
VSP-D30-15W*-6		6					11.9	20.1				68
VSP-D30-20W*-4		4	120.6		83.5	34	11.2	18.8	36.5	20	2.0 to 8.7	77
VSP-D30-20W*-6		6					11.9	20.1				78
VSP-D40W*-4	40	4	95.1	45	72	20	11.2	18.8	18.5	6	7.0 to 12.6	67
VSP-D40W*-6		6					11.9	20.1				68
VSP-D40-10W*-4		4	101.1		78	20	11.2	18.8	24.5	10	3.3 to 10.0	62
VSP-D40-10W*-6		6					11.9	20.1				63
VSP-D40-15W*-4		4	111.1		83	25	11.2	18.8	29.5	15	3.3 to 10.4	68
VSP-D40-15W*-6		6					11.9	20.1				69
VSP-D40-20W*-4		4	127.1		90	34	11.2	18.8	36.5	20	2.0 to 8.7	78
VSP-D40-20W*-6		6					11.9	20.1				79
VSP-D50W*-4	50	4	106.1	56	83	20	11.2	18.8	18.5	6	7.0 to 12.6	78
VSP-D50W*-6		6					11.9	20.1				79
VSP-D50-10W*-4		4	112.1		89	20	11.2	18.8	24.5	10	3.3 to 10.0	81
VSP-D50-10W*-6		6					11.9	20.1				82
VSP-D50-15W*-4		4	122.1		94	25	11.2	18.8	29.5	15	3.3 to 10.4	88
VSP-D50-15W*-6		6					11.9	20.1				89
VSP-D50-20W*-4		4	138.1		101	34	11.2	18.8	36.5	20	2.0 to 8.7	97
VSP-D50-20W*-6		6					11.9	20.1				98

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D6, 8-□W*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D6-20W*-4C	6	4	72.1	12	60	11.2	19.8	40.5	20	1.5 to 4.9	62
VSP-D6-20W*-6C		6				11.9	21.1				63
VSP-D6-30W*-4C		4	85.1		73	11.2	19.8	53.5	30	1.1 to 4.8	68
VSP-D6-30W*-6C		6				11.9	21.1				69
VSP-D6-40W*-4C		4	98.1		86	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D6-40W*-6C		6				11.9	21.1				76
VSP-D6-50W*-4C		4	111.1		99	11.2	19.8	79.5	50	0.9 to 4.5	82
VSP-D6-50W*-6C		6				11.9	21.1				83
VSP-D8-20W*-4C	8	4	72.6	12.5	60.5	11.2	19.8	40.5	20	1.5 to 4.9	62
VSP-D8-20W*-6C		6				11.9	21.1				63
VSP-D8-30W*-4C		4	85.6		73.5	11.2	19.8	53.5	30	1.1 to 4.8	68
VSP-D8-30W*-6C		6				11.9	21.1				69
VSP-D8-40W*-4C		4	98.6		86.5	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D8-40W*-6C		6				11.9	21.1				76
VSP-D8-50W*-4C		4	111.6		99.5	11.2	19.8	79.5	50	0.9 to 4.5	82
VSP-D8-50W*-6C		6				11.9	21.1				83

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

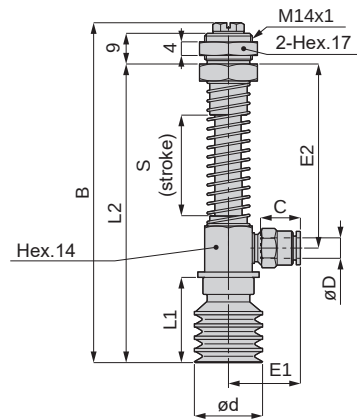
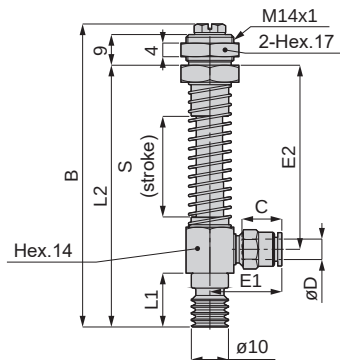
Suction mark
prevention

VSP-*W* Series

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D10-□W*-4C/6C

●VSP-D20 to 50-□W*-4C/6C

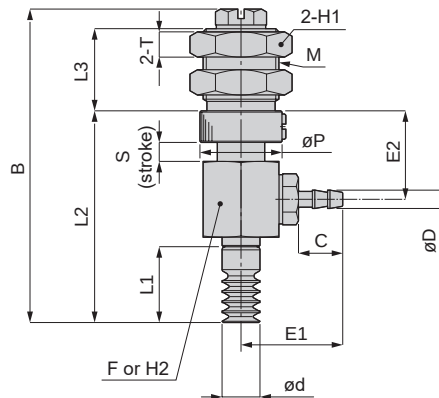


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10-20W*-4C	10	4	74.6	14.5	62.5	11.2	19.8	40.5	20	1.5 to 4.9	69
VSP-D10-20W*-6C		6				11.9	21.1				70
VSP-D10-30W*-4C		4	87.6		75.5	11.2	19.8	53.5	30	1.1 to 4.8	75
VSP-D10-30W*-6C		6				11.9	21.1				76
VSP-D10-40W*-4C		4	100.6		88.5	11.2	19.8	66.5	40	1.0 to 4.5	82
VSP-D10-40W*-6C		6				11.9	21.1				83
VSP-D10-50W*-4C		4	113.6		101.5	11.2	19.8	79.5	50	0.9 to 4.5	89
VSP-D10-50W*-6C		6				11.9	21.1				90
VSP-D20-20W*-4C	20	4	86.6	25	74.5	11.2	19.8	41	20	1.5 to 4.9	70
VSP-D20-20W*-6C		6				11.9	21.1				71
VSP-D20-30W*-4C		4	99.6		87.5	11.2	19.8	54	30	1.1 to 4.8	77
VSP-D20-30W*-6C		6				11.9	21.1				78
VSP-D20-40W*-4C		4	112.6		100.5	11.2	19.8	67	40	1.0 to 4.5	82
VSP-D20-40W*-6C		6				11.9	21.1				83
VSP-D20-50W*-4C		4	125.6		113.5	11.2	19.8	80	50	0.9 to 4.5	90
VSP-D20-50W*-6C		6				11.9	21.1				91
VSP-D30-20W*-4C	30	4	100.1	38.5	88	11.2	19.8	41	20	1.5 to 4.9	75
VSP-D30-20W*-6C		6				11.9	21.1				76
VSP-D30-30W*-4C		4	113.1		101	11.2	19.8	54	30	1.1 to 4.8	82
VSP-D30-30W*-6C		6				11.9	21.1				83
VSP-D30-40W*-4C		4	126.1		114	11.2	19.8	67	40	1.0 to 4.5	87
VSP-D30-40W*-6C		6				11.9	21.1				88
VSP-D30-50W*-4C		4	139.1		127	11.2	19.8	80	50	0.9 to 4.5	95
VSP-D30-50W*-6C		6				11.9	21.1				96
VSP-D40-20W*-4C	40	4	106.6	45	94.5	11.2	19.8	41	20	1.5 to 4.9	86
VSP-D40-20W*-6C		6				11.9	21.1				87
VSP-D40-30W*-4C		4	119.6		107.5	11.2	19.8	54	30	1.1 to 4.8	93
VSP-D40-30W*-6C		6				11.9	21.1				94
VSP-D40-40W*-4C		4	132.6		120.5	11.2	19.8	67	40	1.0 to 4.5	100
VSP-D40-40W*-6C		6				11.9	21.1				101
VSP-D40-50W*-4C		4	145.6		133.5	11.2	19.8	80	50	0.9 to 4.5	107
VSP-D40-50W*-6C		6				11.9	21.1				108
VSP-D50-20W*-4C	50	4	117.6	56	105.5	11.2	19.8	41	20	1.5 to 4.9	92
VSP-D50-20W*-6C		6				11.9	21.1				93
VSP-D50-30W*-4C		4	130.6		118.5	11.2	19.8	54	30	1.1 to 4.8	100
VSP-D50-30W*-6C		6				11.9	21.1				101
VSP-D50-40W*-4C		4	143.6		131.5	11.2	19.8	67	40	1.0 to 4.5	107
VSP-D50-40W*-6C		6				11.9	21.1				108
VSP-D50-50W*-4C		4	156.6		144.5	11.2	19.8	80	50	0.9 to 4.5	114
VSP-D50-50W*-6C		6				11.9	21.1				115

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

- VSP-D6, 8W*-4T/6T
- VSP-D6, 8-□W-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	E1	E2	Hexagon H1	Hexagon H2	□F	T	Stroke S	Spring force (N)	Weight (g)
VSP-D6W*-4T	6	2.5	M8x0.75	46	12	30	13	10	13.9	13	10	—	8	2	3	0.9 to 1.9	13
VSP-D6W*-6T		4															
VSP-D6-10W*-4T		2.5	M12x1	61.1		40.5	17.5	13	15.9	21	14	12	—	4	10	0.6 to 1.7	32
VSP-D6-10W*-6T		4															
VSP-D6-15W*-4T		2.5		72.1		45.5	23.5			26					15	0.4 to 1.7	36
VSP-D6-15W*-6T		4															
VSP-D6-20W*-4T		2.5		82.1		50.5	28.5			31					20	0.3 to 1.8	39
VSP-D6-20W*-6T		4															
VSP-D8W*-4T	8	2.5	M8x0.75	46.5	12.5	30.5	13	10	13.9	13	10	—	8	2	3	0.9 to 1.9	13
VSP-D8W*-6T		4															
VSP-D8-10W*-4T		2.5	M12x1	61.6		41	17.5	13	15.9	21	14	12	—	4	10	0.6 to 1.7	32
VSP-D8-10W*-6T		4															
VSP-D8-15W*-4T		2.5		72.6		46	23.5			26					15	0.4 to 1.7	36
VSP-D8-15W*-6T		4															
VSP-D8-20W*-4T		2.5		82.6		51	28.5			31					20	0.3 to 1.8	39
VSP-D8-20W*-6T		4															

Suction pad

General/Deep/ Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

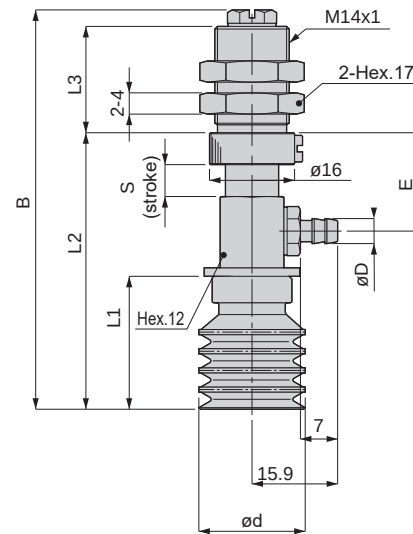
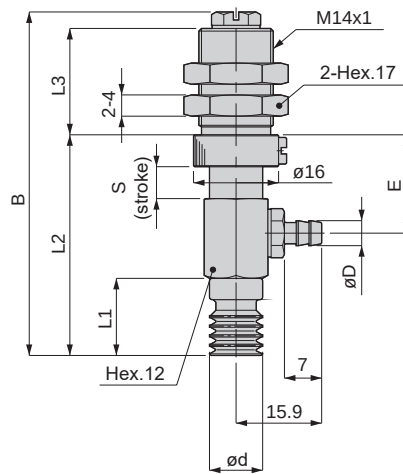
Suction mark prevention

VSP-*W* Series

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

- VSP-D10W*-4T/6T
- VSP-D10-□W*-4T/6T

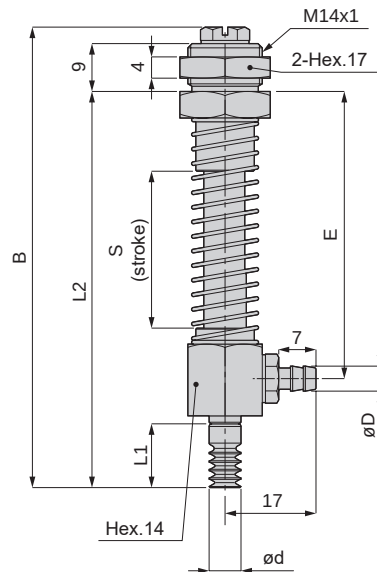
- VSP-D20 to 50W*-4T/6T
- VSP-D20 to 50-□W*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D10W*-4T	10	2.5	64.6	14.5	41.5	20	18.5	6	4.0 to 7.1	48
VSP-D10W*-6T		4								
VSP-D10-10W*-4T		2.5	69.6		46.5	25	10	2.0 to 5.2	49	
VSP-D10-10W*-6T		4								
VSP-D10-15W*-4T		2.5	79.6		51.5	25	30	15	2.0 to 5.9	55
VSP-D10-15W*-6T		4								
VSP-D10-20W*-4T		2.5	95.6		58.5	34	37	20	1.1 to 4.8	65
VSP-D10-20W*-6T		4								
VSP-D20W*-4T	20	2.5	75.1	25	52	20	18.5	6	7.0 to 12.6	52
VSP-D20W*-6T		4								
VSP-D20-10W*-4T		2.5	81.1		58	24.5	10	3.3 to 10.0	53	
VSP-D20-10W*-6T		4								
VSP-D20-15W*-4T		2.5	91.1		63	25	29.5	15	3.3 to 10.4	60
VSP-D20-15W*-6T		4								
VSP-D20-20W*-4T		2.5	107.1		70	34	36.5	20	2.0 to 8.7	70
VSP-D20-20W*-6T		4								
VSP-D30W*-4T	30	2.5	88.6	38.5	65.5	20	18.5	6	7.0 to 12.6	58
VSP-D30W*-6T		4								
VSP-D30-10W*-4T		2.5	94.6		71.5	24.5	10	3.3 to 10.0	59	
VSP-D30-10W*-6T		4								
VSP-D30-15W*-4T		2.5	104.6		76.5	25	29.5	15	3.3 to 10.4	63
VSP-D30-15W*-6T		4								
VSP-D30-20W*-4T		2.5	120.6		83.5	34	36.5	20	2.0 to 8.7	74
VSP-D30-20W*-6T		4								
VSP-D40W*-4T	40	2.5	95.1	45	72	20	18.5	6	7.0 to 12.6	68
VSP-D40W*-6T		4								
VSP-D40-10W*-4T		2.5	101.1		78	24.5	10	3.3 to 10.0	69	
VSP-D40-10W*-6T		4								
VSP-D40-15W*-4T		2.5	111.1		83	25	29.5	15	3.3 to 10.4	74
VSP-D40-15W*-6T		4								
VSP-D40-20W*-4T		2.5	127.1		90	34	36.5	20	2.0 to 8.7	84
VSP-D40-20W*-6T		4								
VSP-D50W*-4T	50	2.5	106.1	56	83	20	18.5	6	7.0 to 12.6	79
VSP-D50W*-6T		4								
VSP-D50-10W*-4T		2.5	112.1		89	24.5	10	3.3 to 10.0	80	
VSP-D50-10W*-6T		4								
VSP-D50-15W*-4T		2.5	122.1		94	25	29.5	15	3.3 to 10.4	84
VSP-D50-15W*-6T		4								
VSP-D50-20W*-4T		2.5	138.1		101	34	36.5	20	2.0 to 8.7	94
VSP-D50-20W*-6T		4								

●VSP-D6, 8-□W*-4TC/6TC



Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D6-20W*-4TC	6	2.5	72.1	12	60	40.5	20	1.5 to 4.9	60
VSP-D6-20W*-6TC		4							
VSP-D6-30W*-4TC		2.5	85.1		73	53.5	30	1.1 to 4.8	67
VSP-D6-30W*-6TC		4							
VSP-D6-40W*-4TC		2.5	98.1		86	66.5	40	1.0 to 4.5	74
VSP-D6-40W*-6TC		4							
VSP-D6-50W*-4TC		2.5	111.1		99	79.5	50	0.9 to 4.5	80
VSP-D6-50W*-6TC		4							
VSP-D8-20W*-4TC	8	2.5	72.6	12.5	60.5	40.5	20	1.5 to 4.9	60
VSP-D8-20W*-6TC		4							
VSP-D8-30W*-4TC		2.5	85.6		73.5	53.5	30	1.1 to 4.8	67
VSP-D8-30W*-6TC		4							
VSP-D8-40W*-4TC		2.5	98.6		86.5	66.5	40	1.0 to 4.5	74
VSP-D8-40W*-6TC		4							
VSP-D8-50W*-4TC		2.5	111.6		99.5	79.5	50	0.9 to 4.5	80
VSP-D8-50W*-6TC		4							

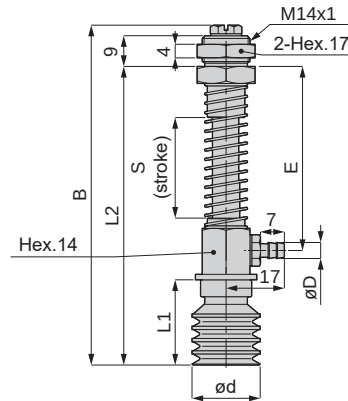
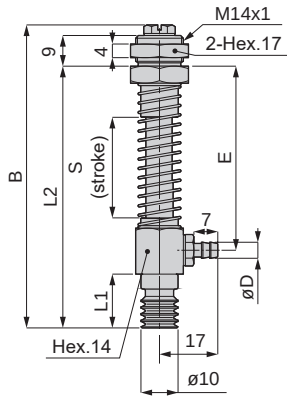
Suction mark

VSP-*W* Series

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D10-□W*-4TC/6TC

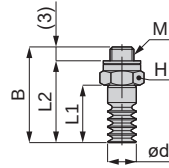
●VSP-D20 to 50-□W*-4TC/6TC



	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D10-20W*-4TC	10	2.5	74.6	14.5	62.5	40.5	20	1.5 to 4.9	67
Sponge	VSP-D10-20W*-6TC		4							
Bellows	VSP-D10-30W*-4TC		2.5							
	VSP-D10-30W*-6TC		4							
	VSP-D10-40W*-4TC		2.5							
Multi-stage bellows	VSP-D10-40W*-6TC		4							
	VSP-D10-50W*-4TC		2.5							
	VSP-D10-50W*-6TC		4							
Oval	VSP-D20-20W*-4TC	20	4	86.6	25	74.5	41	20	1.5 to 4.9	68
	VSP-D20-20W*-6TC		6							
	VSP-D20-30W*-4TC		4							
	VSP-D20-30W*-6TC		6							
	VSP-D20-40W*-4TC		4							
	VSP-D20-40W*-6TC		6							
Soft	VSP-D20-50W*-4TC	20	4	125.6	25	113.5	80	50	0.9 to 4.5	88
	VSP-D20-50W*-6TC		6							
Soft bellows	VSP-D30-20W*-4TC	30	4	100.1	38.5	88	41	20	1.5 to 4.9	70
	VSP-D30-20W*-6TC		6							
	VSP-D30-30W*-4TC		4							
	VSP-D30-30W*-6TC		6							
	VSP-D30-40W*-4TC		4							
	VSP-D30-40W*-6TC		6							
Anti-slip	VSP-D30-50W*-4TC	30	4	139.1	38.5	127	80	50	0.9 to 4.5	90
	VSP-D30-50W*-6TC		6							
Thin object	VSP-D40-20W*-4TC	40	4	106.6	45	94.5	41	20	1.5 to 4.9	80
	VSP-D40-20W*-6TC		6							
	VSP-D40-30W*-4TC		4							
	VSP-D40-30W*-6TC		6							
	VSP-D40-40W*-4TC		4							
	VSP-D40-40W*-6TC		6							
Flat	VSP-D40-50W*-4TC	40	4	145.6	45	133.5	80	50	0.9 to 4.5	100
	VSP-D40-50W*-6TC		6							
Suction mark prevention	VSP-D50-20W*-4TC	50	4	117.6	56	105.5	41	20	1.5 to 4.9	86
	VSP-D50-20W*-6TC		6							
	VSP-D50-30W*-4TC		4							
	VSP-D50-30W*-6TC		6							
	VSP-D50-40W*-4TC		4							
	VSP-D50-40W*-6TC		6							
	VSP-D50-50W*-4TC		4							
	VSP-D50-50W*-6TC		6							

Dimensions (fixed, direct mounting, VSP-E, male thread)

●VSP-E6, 8W*

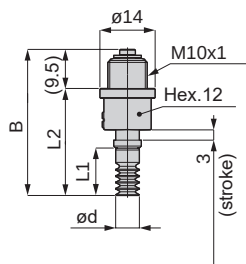


Unit: mm

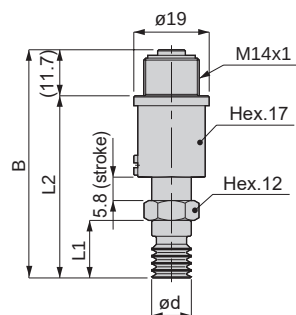
Model No.	Pad diameter ød	M	B	L1	L2	Hexagon H	Weight (g)
VSP-E6W*	6	M5x0.8	20	12	17	8	3
VSP-E8W*	8	M5x0.8	20.5	12.5	17.5	8	3

Dimensions (buffer, direct mounting, VSP-F, male thread)

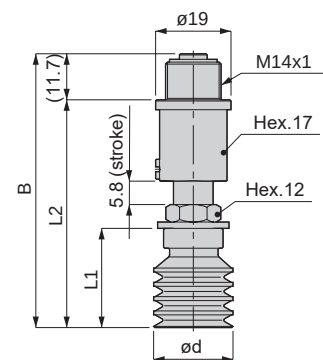
●VSP-F6, 8W*



●VSP-F10W*



●VSP-F20 to 50W*



Unit: mm

Model No.	Pad diameter ød	B	L1	L2	Spring force (N)	Weight (g)
VSP-F6W*	6	37	12	27.5	2.3 to 3.9	16
VSP-F8W*	8	37.5	12.5	28	2.3 to 3.9	16
VSP-F10W*	10	57.5	14.5	45.8	7.9 to 15	57
VSP-F20W*	20	69	25	57.3	7.9 to 15	60
VSP-F30W*	30	82.5	38.5	70.8	7.9 to 15	66
VSP-F40W*	40	89	45	77.3	7.9 to 15	76
VSP-F50W*	50	100	56	88.3	7.9 to 15	87

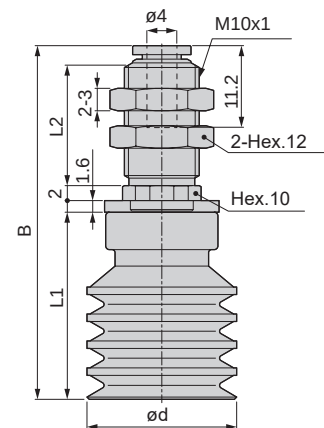
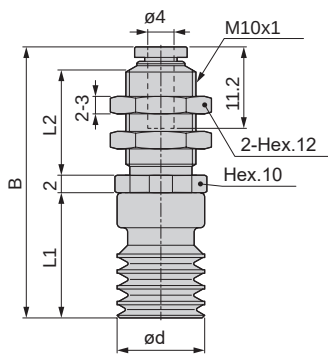
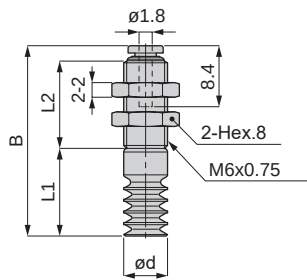
VSP-*W* Series

Dimensions (compact, fixed, vacuum outlet, top, VSP-MA, push-in fitting)

●VSP-MA6, 8W*-2

●VSP-MA10W*-4

●VSP-MA20 to 50W*-4



Unit: mm

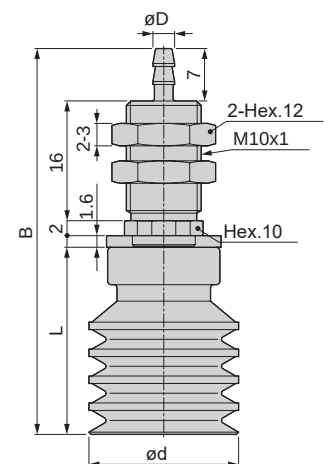
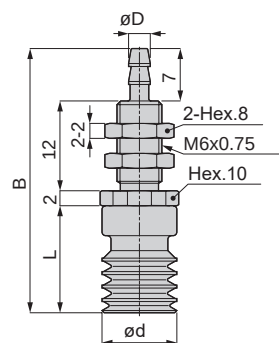
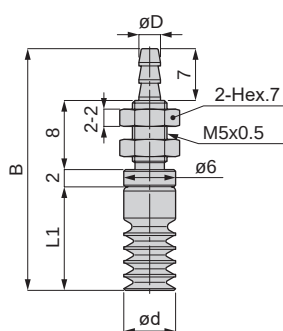
Model No.	Pad diameter ød	B	L1	L2	Weight (g)
VSP-MA6W*-2	6	26.1	12	12	2.5
VSP-MA8W*-2	8	26.6	12.5	12	2.5
VSP-MA10W*-4	10	35.5	14.5	16.4	6.6
VSP-MA20W*-4	20	47.6	25	16.4	13
VSP-MA30W*-4	30	61.1	38.5	16.4	19
VSP-MA40W*-4	40	52.6	45	16.4	26
VSP-MA50W*-4	50	54.6	56	16.4	32

Dimensions (compact, fixed, vacuum outlet, top, VSP-MA, barbed fitting)

●VSP-MA6, 8W*-4T

●VSP-MA10W*-4T

●VSP-MA20 to 50W*-4T/6T



Unit: mm

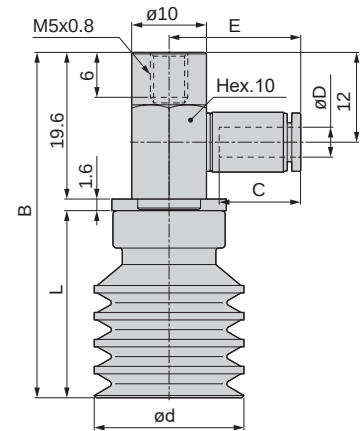
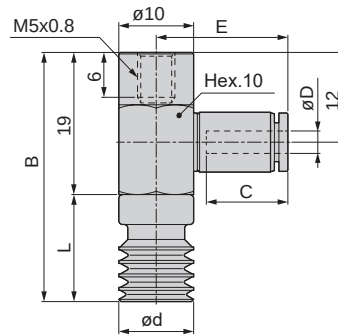
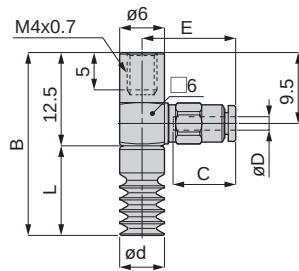
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MA6W*-4T	6	2.5	29	12	2.1
VSP-MA8W*-4T	8	2.5	29.5	12.5	2.1
VSP-MA10W*-4T	10	2.5	35.5	14.5	3.8
VSP-MA20W*-4T	20	2.5	51.6	25	13
VSP-MA20W*-6T		4			
VSP-MA30W*-4T	30	2.5	65.1	38.5	19
VSP-MA30W*-6T		4			
VSP-MA40W*-4T	40	2.5	71.6	45	25
VSP-MA40W*-6T		4			
VSP-MA50W*-4T	50	2.5	82.6	56	32
VSP-MA50W*-6T		4			

Dimensions (compact, fixed, vacuum outlet, lateral, VSP-MB, push-in fitting)

●VSP-MB6, 8W*-2/4

●VSP-MB10W*-2/4/6

●VSP-MB20 to 50W*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB6W*-2	6	1.8	24.5	12	8.4	12.5	2.5
VSP-MB6W*-4		4			11.2	15.8	4
VSP-MB8W*-2	8	1.8	25	12.5	8.4	12.5	2.5
VSP-MB8W*-4		4			11.2	15.8	4
VSP-MB10W*-2	10	1.8	33.5	14.5	8.4	13.7	7.7
VSP-MB10W*-4		4			11.2	17.8	8.4
VSP-MB10W*-6		6			11.9	19.6	9.8
VSP-MB20W*-2	20	1.8	46.2	25	8.4	13.7	12
VSP-MB20W*-4		4			11.2	17.8	13
VSP-MB20W*-6		6			11.9	19.6	14
VSP-MB30W*-2	30	1.8	59.7	38.5	8.4	13.7	18
VSP-MB30W*-4		4			11.2	17.8	19
VSP-MB30W*-6		6			11.9	19.6	20
VSP-MB40W*-2	40	1.8	66.2	45	8.4	13.7	25
VSP-MB40W*-4		4			11.2	17.8	26
VSP-MB40W*-6		6			11.9	19.6	27
VSP-MB50W*-2	50	1.8	77.2	56	8.4	13.7	32
VSP-MB50W*-4		4			11.2	17.8	33
VSP-MB50W*-6		6			11.9	19.6	34

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

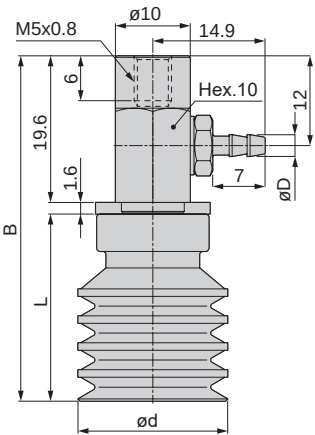
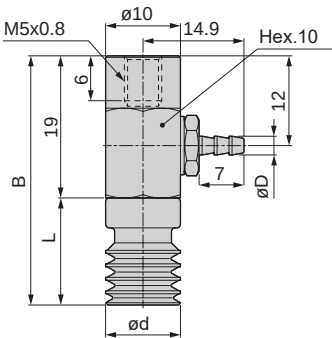
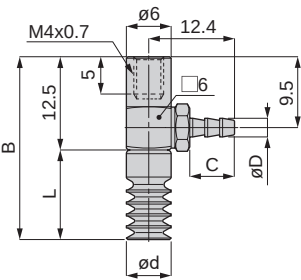
VSP-***W*** Series

Dimensions (compact, fixed, vacuum outlet, side, VSP-MB, barbed fitting)

●VSP-MB6, 8W*-4T/6T

●VSP-MB10W*-4T/6T

●VSP-MB20 to 50W*-4T/6T



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

Unit: mm

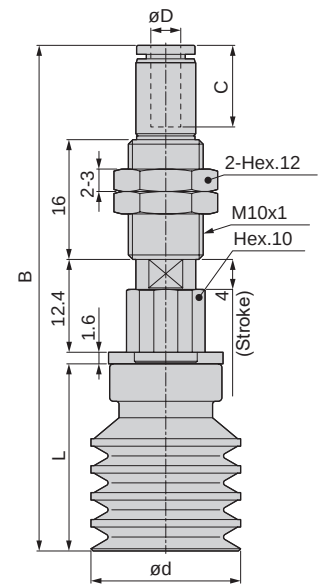
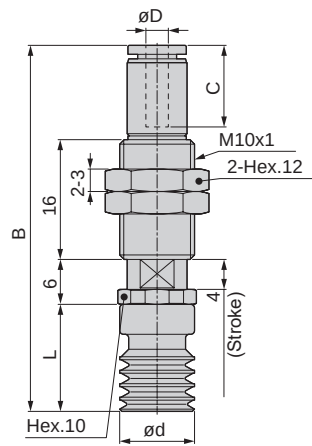
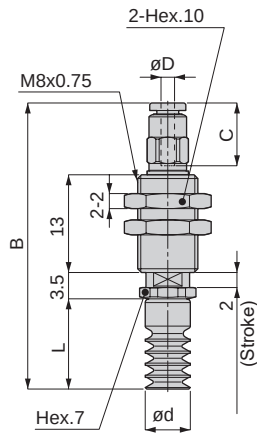
Model No.	Pad diameter Ød	Bore size ØD	B	L	Weight (g)
VSP-MB6W*-4T	6	2.5	24.5	12	2.7
VSP-MB6W*-6T		4			
VSP-MB8W*-4T	8	2.5	25	12.5	2.7
VSP-MB8W*-6T		4			
VSP-MB10W*-4T	10	2.5	33.5	14.5	7.3
VSP-MB10W*-6T		4			
VSP-MB20W*-4T	20	2.5	46.2	25	13
VSP-MB20W*-6T		4			
VSP-MB30W*-4T	30	2.5	59.7	38.5	18
VSP-MB30W*-6T		4			
VSP-MB40W*-4T	40	2.5	66.2	45	27
VSP-MB40W*-6T		4			
VSP-MB50W*-4T	50	2.5	77.2	56	35
VSP-MB50W*-6T		4			

Dimensions (compact, buffer, vacuum outlet, top, VSP-MC, push-in fitting)

●VSP-MC6, 8W*-2

●VSP-MC10W*-2/4

●VSP-MC20 to 50W*-2/4



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC6W*-2	6	1.8	38.2	12	8.4	0.2 to 0.3	7.3
VSP-MC8W*-2	8	1.8	38.7	12.5	8.4	0.2 to 0.3	7.3
VSP-MC10W*-2	10	1.8	45.4	14.5	8.4	0.5 to 0.6	15
VSP-MC10W*-4		4	49.5		11.2		16
VSP-MC20W*-2	20	1.8	63.9	25	8.4	1 to 1.3	24
VSP-MC20W*-4		4	68		11.2		25
VSP-MC30W*-2	30	1.8	77.4	38.5	8.4	1 to 1.3	30
VSP-MC30W*-4		4	81.5		11.2		31
VSP-MC40W*-2	40	1.8	83.9	45	8.4	1 to 1.3	38
VSP-MC40W*-4		4	88		11.2		39
VSP-MC50W*-2	50	1.8	94.9	56	8.4	1 to 1.3	45
VSP-MC50W*-4		4	99		11.2		46

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

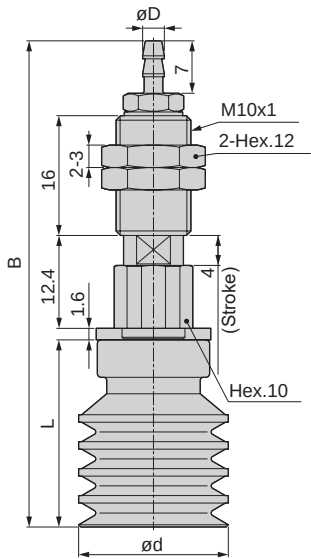
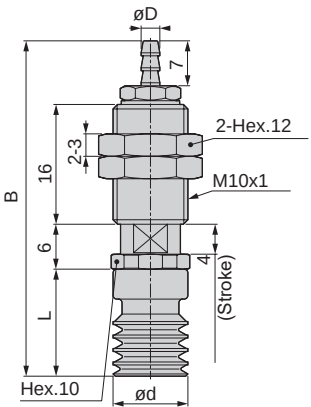
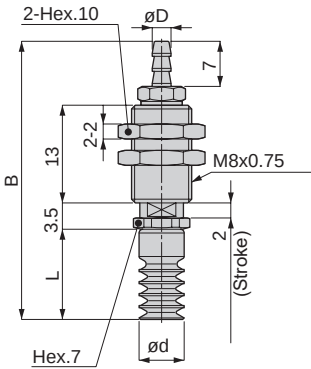
Suction mark
prevention

Dimensions (compact, buffer, vacuum outlet, top, VSP-MC, barbed fitting)

●VSP-MC6, 8W*-4T/6T

●VSP-MC10W*-4T/6T

●VSP-MC20 to 50W*-4T/6T



Unit: mm

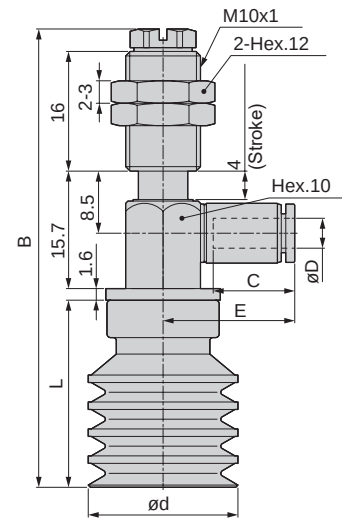
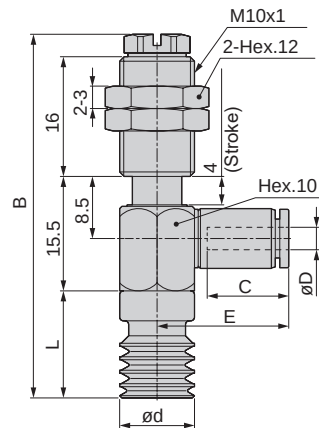
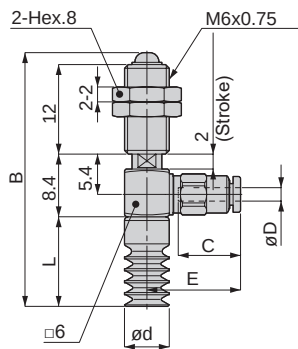
Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC6W*-4T	6	2.5	38.1	12	0.2 to 0.3	7.5
VSP-MC6W*-6T		4				
VSP-MC8W*-4T	8	2.5	38.6	12.5	0.2 to 0.3	7.5
VSP-MC8W*-6T		4				
VSP-MC10W*-4T	10	2.5	46.6	14.5	0.5 to 0.6	15
VSP-MC10W*-6T		4				
VSP-MC20W*-4T	20	2.5	65.1	25	1 to 1.3	24
VSP-MC20W*-6T		4				
VSP-MC30W*-4T	30	2.5	78.6	38.5	1 to 1.3	29
VSP-MC30W*-6T		4				
VSP-MC40W*-4T	40	2.5	85.1	45	1 to 1.3	38
VSP-MC40W*-6T		4				
VSP-MC50W*-4T	50	2.5	96.1	56	1 to 1.3	46
VSP-MC50W*-6T		4				

Dimensions (compact, buffer, vacuum outlet, lateral, VSP-MD, push-in fitting)

●VSP-MD6, 8W*-2/4

●VSP-MD10W*-2/4/6

●VSP-MD20 to 50 W*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD6W*-2	6	1.8	34	12	8.4	12.6	0.5 to 0.6	6.6
VSP-MD6W*-4		4			11.2	15.9		8
VSP-MD8W*-2	8	1.8	34.5	12.5	8.4	12.6	0.5 to 0.6	6.6
VSP-MD8W*-4		4			11.2	15.9		8
VSP-MD10W*-2	10	1.8	49	14.5	8.4	13.6	1 to 1.3	23
VSP-MD10W*-4		4			11.2	17.7		24
VSP-MD10W*-6		6			11.9	19.5		25
VSP-MD20W*-2	20	1.8	61.3	25	8.4	13.6	1 to 1.3	27
VSP-MD20W*-4		4			11.2	17.7		28
VSP-MD20W*-6		6			11.9	19.5		29
VSP-MD30W*-2	30	1.8	74.8	38.5	8.4	13.6	1 to 1.3	33
VSP-MD30W*-4		4			11.2	17.7		34
VSP-MD30W*-6		6			11.9	19.5		35
VSP-MD40W*-2	40	1.8	81.3	45	8.4	13.6	1 to 1.3	42
VSP-MD40W*-4		4			11.2	17.7		43
VSP-MD40W*-6		6			11.9	19.5		44
VSP-MD50W*-2	50	1.8	92.3	56	8.4	13.6	1 to 1.3	51
VSP-MD50W*-4		4			11.2	17.7		50
VSP-MD50W*-6		6			11.9	19.5		52

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

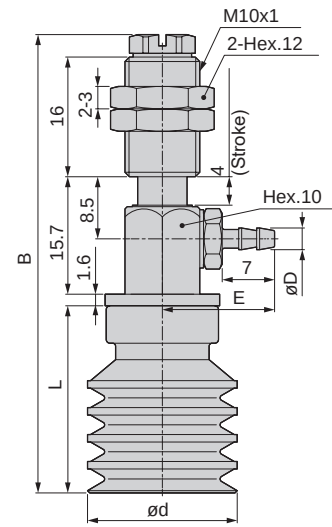
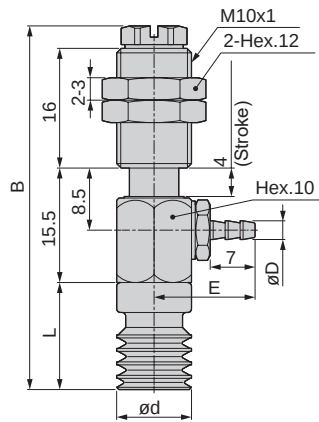
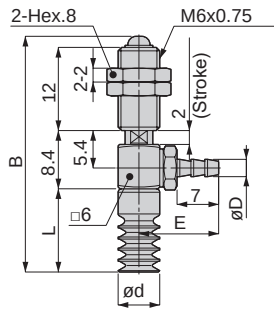
VSP-*W* Series

Dimensions (compact, buffer, vacuum outlet, side, VSP-MD, barbed fitting)

●VSP-MD6, 8W*-4T/6T

●VSP-MD10W*-4T/6T

●VSP-MD20 to 50W*-4T/6T



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

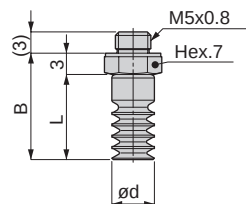
Suction mark
prevention

Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Spring force (N)	Weight (g)
VSP-MD6W*-4T	6	2.5	34	12	12.5	0.5 to 0.6	6.4
VSP-MD6W*-6T		4					
VSP-MD8W*-4T	8	2.5	34.5	12.5	12.5	0.5 to 0.6	6.4
VSP-MD8W*-6T		4					
VSP-MD10W*-4T	10	2.5	49	14.5	14.8	1 to 1.3	22
VSP-MD10W*-6T		4					
VSP-MD20W*-4T	20	2.5	61.3	25	14.8	1 to 1.3	27
VSP-MD20W*-6T		4					
VSP-MD30W*-4T	30	2.5	74.8	38	14.8	1 to 1.3	33
VSP-MD30W*-6T		4					
VSP-MD40W*-4T	40	2.5	81.3	45	14.8	1 to 1.3	40
VSP-MD40W*-6T		4					
VSP-MD50W*-4T	50	2.5	92.3	56	14.8	1 to 1.3	48
VSP-MD50W*-6T		4					

Dimensions (compact direct mounting, vacuum outlet side VSP-ME, barbed fitting)

●VSP-ME6, 8W*-M5

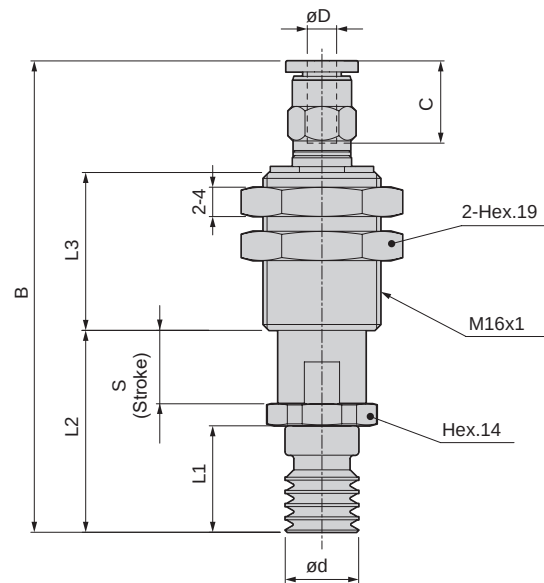


Unit: mm

Model No.	Pad diameter ød	B	L	Weight (g)
VSP-ME6W*-M5	6	20	12	3
VSP-ME8W*-M5	8	20.5	12.5	3

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC10-□W*-/4/6



Unit: mm										
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10W*-2	10	1.8	60.1	14.5	27.5	21.5	8.4	10	1.0 to 2.4	22
VSP-HC10-10W*-4		4	64.2				11.2			23
VSP-HC10-10W*-6		6	65.5				11.9			24
VSP-HC10-15W*-2		1.8	70.1		32.5	26.5	8.4	15	1.0 to 2.7	24
VSP-HC10-15W*-4		4	74.2				11.2			25
VSP-HC10-15W*-6		6	75.5				11.9			26
VSP-HC10-20W*-2		1.8	80.1		37.5	31.5	8.4	20	1.0 to 3.0	26
VSP-HC10-20W*-4		4	84.2				11.2			27
VSP-HC10-20W*-6		6	85.5				11.9			28
VSP-HC10-25W*-2		1.8	90.6		42.5	37	8.4	25	1.0 to 3.0	28
VSP-HC10-25W*-4		4	94.7				11.2			29
VSP-HC10-25W*-6		6	96				11.9			30
VSP-HC10-30W*-2		1.8	101.6		47.5	43	8.4	30	1.0 to 3.0	30
VSP-HC10-30W*-4		4	105.7				11.2			31
VSP-HC10-30W*-6		6	107				11.9			32
VSP-HC10-40W*-2		1.8	123.6		57.5	55	8.4	40	1.0 to 3.0	34
VSP-HC10-40W*-4		4	127.7				11.2			35
VSP-HC10-40W*-6		6	129				11.9			36
VSP-HC10-50W*-2		1.8	145.1		67.5	66.5	8.4	50	1.0 to 3.1	39
VSP-HC10-50W*-4		4	149.2				11.2			40
VSP-HC10-50W*-6		6	150.5				11.9			41

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

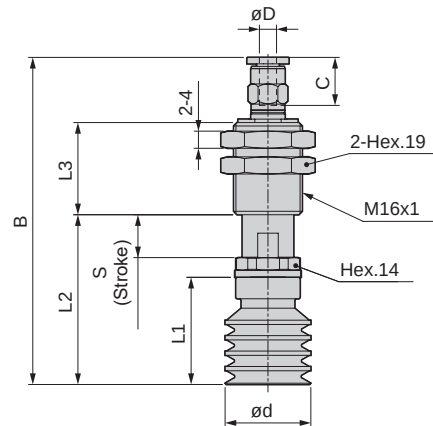
Thin object

Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC20, 30-□W*-2/4/6

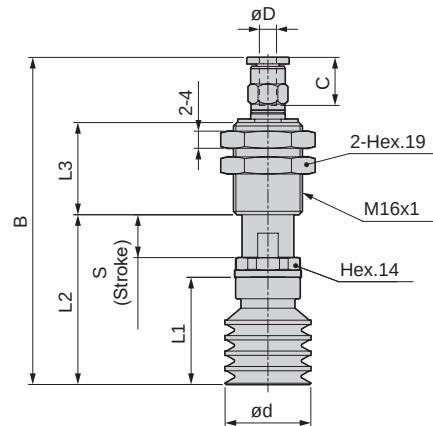


Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC20-10W*-2	20	1.8	72.2	25	39.6	21.5	8.4	10	1.0 to 2.4	27
	VSP-HC20-10W*-4		4	76.3				11.2			28
	VSP-HC20-10W*-6		6	77.6				11.9			29
	VSP-HC20-15W*-2		1.8	82.2		44.6	26.5	8.4	15	1.0 to 2.7	29
Sponge	VSP-HC20-15W*-4		4	86.3				11.2			30
	VSP-HC20-15W*-6		6	87.6				11.9			31
Bellows	VSP-HC20-20W*-2		1.8	92.2		49.6	31.5	8.4	20	1.0 to 3.0	31
	VSP-HC20-20W*-4		4	96.3				11.2			32
	VSP-HC20-20W*-6		6	97.6				11.9			33
Multi-stage bellows	VSP-HC20-25W*-2		1.8	102.7		54.6	37	8.4	25	1.0 to 3.0	33
	VSP-HC20-25W*-4		4	106.8				11.2			34
	VSP-HC20-25W*-6		6	108.1				11.9			35
	VSP-HC20-30W*-2		1.8	113.7		59.6	43	8.4	30	1.0 to 3.0	35
Oval	VSP-HC20-30W*-4		4	117.8				11.2			36
	VSP-HC20-30W*-6		6	119.1				11.9			37
Soft	VSP-HC20-40W*-2		1.8	135.7		69.6	55	8.4	40	1.0 to 3.0	39
	VSP-HC20-40W*-4		4	139.8				11.2			40
	VSP-HC20-40W*-6		6	141.1				11.9			41
Soft bellows	VSP-HC20-50W*-2		1.8	157.2		79.6	66.5	8.4	50	1.0 to 3.1	43
	VSP-HC20-50W*-4		4	161.3				11.2			44
	VSP-HC20-50W*-6		6	162.6				11.9			45
Anti-slip	VSP-HC30-10W*-2	30	1.8	85.7	38.5	53.1	21.5	8.4	10	1.0 to 2.4	33
	VSP-HC30-10W*-4		4	89.8				11.2			34
	VSP-HC30-10W*-6		6	91.1				11.9			35
Thin object	VSP-HC30-15W*-2		1.8	95.7		58.1	26.5	8.4	15	1.0 to 2.7	35
	VSP-HC30-15W*-4		4	99.8				11.2			36
	VSP-HC30-15W*-6		6	101.1				11.9			37
Flat	VSP-HC30-20W*-2		1.8	105.7		63.1	31.5	8.4	20	1.0 to 3.0	37
	VSP-HC30-20W*-4		4	109.8				11.2			38
	VSP-HC30-20W*-6		6	111.1				11.9			39
Suction mark prevention	VSP-HC30-25W*-2		1.8	116.2		68.1	37	8.4	25	1.0 to 3.0	39
	VSP-HC30-25W*-4		4	120.3				11.2			40
	VSP-HC30-25W*-6		6	121.6				11.9			41
	VSP-HC30-30W*-2		1.8	127.2		73.1	43	8.4	30	1.0 to 3.0	41
	VSP-HC30-30W*-4		4	131.3				11.2			42
	VSP-HC30-30W*-6		6	132.6				11.9			43
	VSP-HC30-40W*-2		1.8	149.2		83.1	55	8.4	40	1.0 to 3.0	45
	VSP-HC30-40W*-4		4	153.3				11.2			46
	VSP-HC30-40W*-6		6	154.6				11.9			47
	VSP-HC30-50W*-2		1.8	170.7		93.1	66.5	8.4	50	1.0 to 3.1	49
	VSP-HC30-50W*-4		4	174.8				11.2			50
	VSP-HC30-50W*-6		6	176.1				11.9			51

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

●VSP-HC40, 50-□W*-2/4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC40-10W*-2	40	1.8	92.2	45	59.6	21.5	8.4	10	1.0 to 2.4	43
VSP-HC40-10W*-4		4	96.3				11.2			44
VSP-HC40-10W*-6		6	97.6				11.9			45
VSP-HC40-15W*-2		1.8	102.2		64.6	26.5	8.4	15	1.0 to 2.7	45
VSP-HC40-15W*-4		4	106.3				11.2			46
VSP-HC40-15W*-6		6	107.6				11.9			47
VSP-HC40-20W*-2		1.8	112.2		69.6	31.5	8.4	20	1.0 to 3.0	47
VSP-HC40-20W*-4		4	116.3				11.2			48
VSP-HC40-20W*-6		6	117.6				11.9			49
VSP-HC40-25W*-2		1.8	122.7		74.6	37	8.4	25	1.0 to 3.0	49
VSP-HC40-25W*-4		4	126.8				11.2			50
VSP-HC40-25W*-6		6	128.1				11.9			51
VSP-HC40-30W*-2		1.8	133.7		79.6	43	8.4	30	1.0 to 3.0	51
VSP-HC40-30W*-4		4	137.8				11.2			52
VSP-HC40-30W*-6		6	139.1				11.9			53
VSP-HC40-40W*-2		1.8	155.7		89.6	55	8.4	40	1.0 to 3.0	55
VSP-HC40-40W*-4		4	159.8				11.2			56
VSP-HC40-40W*-6		6	161.1				11.9			57
VSP-HC40-50W*-2		1.8	177.2		99.6	66.5	8.4	50	1.0 to 3.1	59
VSP-HC40-50W*-4		4	181.3				11.2			60
VSP-HC40-50W*-6		6	182.6				11.9			61
VSP-HC50-10W*-2	50	1.8	103.2	56	70.6	21.5	8.4	10	1.0 to 2.4	55
VSP-HC50-10W*-4		4	107.3				11.2			56
VSP-HC50-10W*-6		6	108.6				11.9			57
VSP-HC50-15W*-2		1.8	113.2		75.6	26.5	8.4	15	1.0 to 2.7	57
VSP-HC50-15W*-4		4	117.3				11.2			58
VSP-HC50-15W*-6		6	118.6				11.9			59
VSP-HC50-20W*-2		1.8	123.2		80.6	31.5	8.4	20	1.0 to 3.0	59
VSP-HC50-20W*-4		4	127.3				11.2			60
VSP-HC50-20W*-6		6	128.6				11.9			61
VSP-HC50-25W*-2		1.8	133.7		85.6	37	8.4	25	1.0 to 3.0	61
VSP-HC50-25W*-4		4	137.8				11.2			62
VSP-HC50-25W*-6		6	139.1				11.9			63
VSP-HC50-30W*-2		1.8	144.7		90.6	43	8.4	30	1.0 to 3.0	63
VSP-HC50-30W*-4		4	148.8				11.2			64
VSP-HC50-30W*-6		6	150.1				11.9			65
VSP-HC50-40W*-2		1.8	166.7		100.6	55	8.4	40	1.0 to 3.0	67
VSP-HC50-40W*-4		4	170.8				11.2			68
VSP-HC50-40W*-6		6	172.1				11.9			69
VSP-HC50-50W*-2		1.8	188.2		110.6	66.5	8.4	50	1.0 to 3.1	71
VSP-HC50-50W*-4		4	192.3				11.2			72
VSP-HC50-50W*-6		6	193.6				11.9			73

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

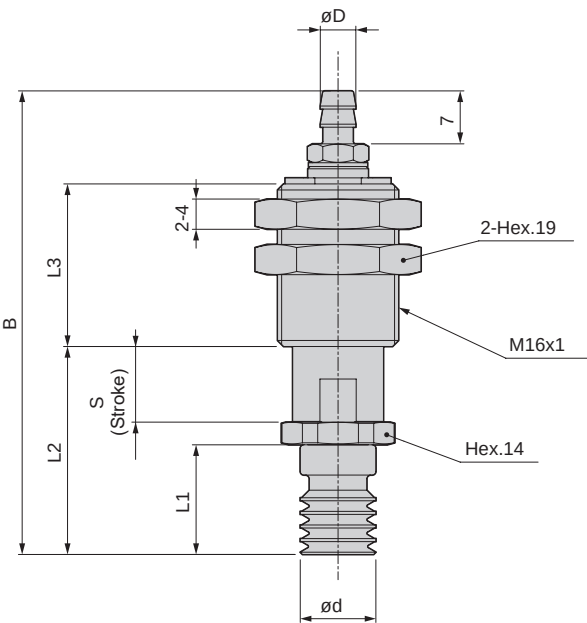
Thin object

Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

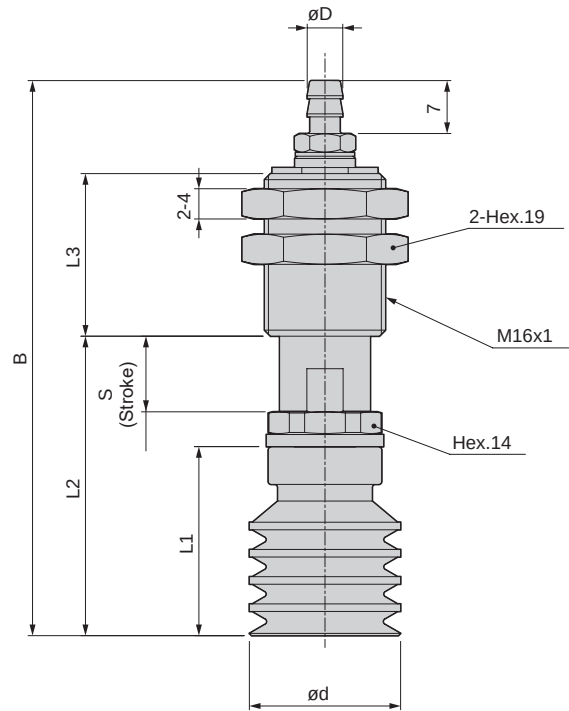
●VSP-HC10-□W*-4T/6T



Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10W*-4T	10	2.5	61.3	14.5	27.5	21.5	10	1.0 to 2.4	21
VSP-HC10-10W*-6T		4							
VSP-HC10-15W*-4T		2.5	71.3		32.5	26.5	15	1.0 to 2.7	23
VSP-HC10-15W*-6T		4							
VSP-HC10-20W*-4T		2.5	81.3		37.5	31.5	20	1.0 to 3.0	25
VSP-HC10-20W*-6T		4							
VSP-HC10-25W*-4T		2.5	91.8		42.5	37	25	1.0 to 3.0	28
VSP-HC10-25W*-6T		4							
VSP-HC10-30W*-4T		2.5	102.8		47.5	43	30	1.0 to 3.0	30
VSP-HC10-30W*-6T		4							
VSP-HC10-40W*-4T		2.5	124.8		57.5	55	40	1.0 to 3.0	34
VSP-HC10-40W*-6T		4							
VSP-HC10-50W*-4T		2.5	146.3		67.5	66.5	50	1.0 to 3.1	38
VSP-HC10-50W*-6T		4							

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC20, 30-□W*-4T/6T



Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10W*-4T	20	2.5	73.4	25	39.6	21.5	10	1.0 to 2.4	26
VSP-HC20-10W*-6T		4							
VSP-HC20-15W*-4T		2.5	83.4		44.6	26.5	15	1.0 to 2.7	28
VSP-HC20-15W*-6T		4							
VSP-HC20-20W*-4T		2.5	93.4		49.6	31.5	20	1.0 to 3.0	30
VSP-HC20-20W*-6T		4							
VSP-HC20-25W*-4T		2.5	103.9		54.6	37	25	1.0 to 3.0	32
VSP-HC20-25W*-6T		4							
VSP-HC20-30W*-4T		2.5	114.9		59.6	43	30	1.0 to 3.0	35
VSP-HC20-30W*-6T		4							
VSP-HC20-40W*-4T		2.5	136.9		69.6	55	40	1.0 to 3.0	39
VSP-HC20-40W*-6T		4							
VSP-HC20-50W*-4T		2.5	158.4		79.6	66.5	50	1.0 to 3.1	43
VSP-HC20-50W*-6T		4							
VSP-HC30-10W*-4T	30	2.5	86.9	38.5	53.1	21.5	10	1.0 to 2.4	32
VSP-HC30-10W*-6T		4							
VSP-HC30-15W*-4T		2.5	96.9		58.1	26.5	15	1.0 to 2.7	34
VSP-HC30-15W*-6T		4							
VSP-HC30-20W*-4T		2.5	106.9		63.1	31.5	20	1.0 to 3.0	36
VSP-HC30-20W*-6T		4							
VSP-HC30-25W*-4T		2.5	117.4		68.1	37	25	1.0 to 3.0	38
VSP-HC30-25W*-6T		4							
VSP-HC30-30W*-4T		2.5	128.4		73.1	43	30	1.0 to 3.0	41
VSP-HC30-30W*-6T		4							
VSP-HC30-40W*-4T		2.5	150.4		83.1	55	40	1.0 to 3.0	45
VSP-HC30-40W*-6T		4							
VSP-HC30-50W*-4T		2.5	171.9		93.1	66.5	50	1.0 to 3.1	49
VSP-HC30-50W*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

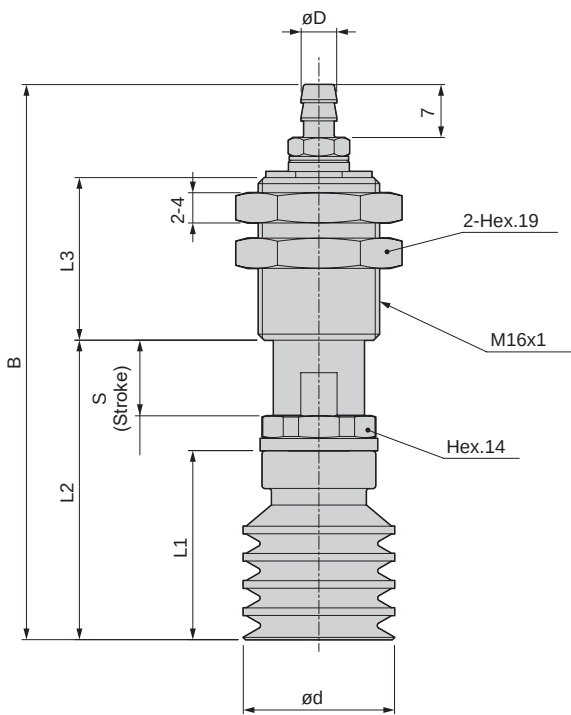
Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

●VSP-HC40, 50-□W*-4T/6T

- Suction pad
- General/Deep/
Compact
- Sponge
- Bellows
- Multi-stage
bellows
- Oval
- Soft
- Soft
bellows
- Anti-slip
- Thin object
- Flat
- Suction mark
prevention



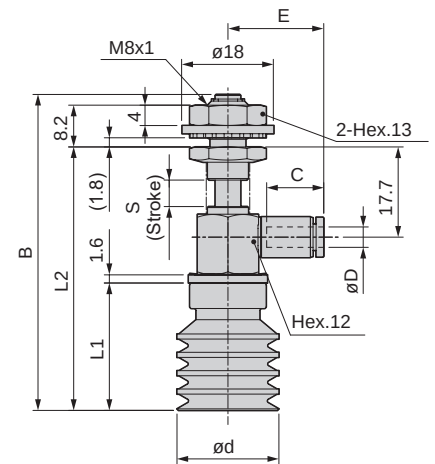
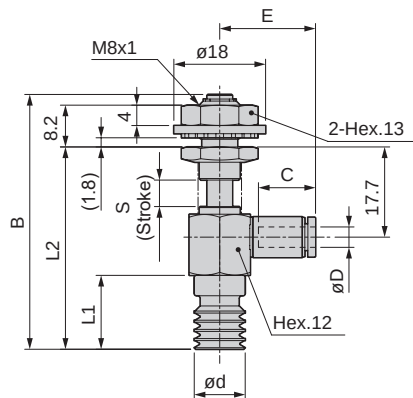
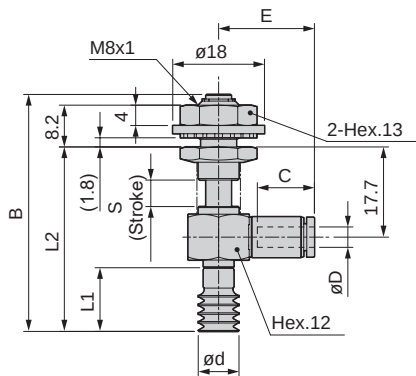
Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC40-10W*-4T	40	2.5	93.4	45	59.6	21.5	10	1.0 to 2.4	42
VSP-HC40-10W*-6T		4							
VSP-HC40-15W*-4T		2.5	103.4		64.6	26.5	15	1.0 to 2.7	44
VSP-HC40-15W*-6T		4							
VSP-HC40-20W*-4T		2.5	113.4		69.6	31.5	20	1.0 to 3.0	46
VSP-HC40-20W*-6T		4							
VSP-HC40-25W*-4T		2.5	123.9		74.6	37	25	1.0 to 3.0	48
VSP-HC40-25W*-6T		4							
VSP-HC40-30W*-4T		2.5	134.9		79.6	43	30	1.0 to 3.0	51
VSP-HC40-30W*-6T		4							
VSP-HC40-40W*-4T		2.5	156.9		89.6	55	40	1.0 to 3.0	55
VSP-HC40-40W*-6T		4							
VSP-HC40-50W*-4T		2.5	178.4		99.6	66.5	50	1.0 to 3.1	59
VSP-HC40-50W*-6T		4							
VSP-HC50-10W*-4T	50	2.5	104.4	56	70.6	21.5	10	1.0 to 2.4	54
VSP-HC50-10W*-6T		4							
VSP-HC50-15W*-4T		2.5	114.4		75.6	26.5	15	1.0 to 2.7	56
VSP-HC50-15W*-6T		4							
VSP-HC50-20W*-4T		2.5	124.4		80.6	31.5	20	1.0 to 3.0	58
VSP-HC50-20W*-6T		4							
VSP-HC50-25W*-4T		2.5	134.9		85.6	37	25	1.0 to 3.0	60
VSP-HC50-25W*-6T		4							
VSP-HC50-30W*-4T		2.5	145.9		90.6	43	30	1.0 to 3.0	63
VSP-HC50-30W*-6T		4							
VSP-HC50-40W*-4T		2.5	167.9		100.6	55	40	1.0 to 3.0	67
VSP-HC50-40W*-6T		4							
VSP-HC50-50W*-4T		2.5	189.4		110.6	66.5	50	1.0 to 3.1	71
VSP-HC50-50W*-6T		4							

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, push-in fitting)

●VSP-HD6, 8W*-2/4/6

●VSP-HD10W*-2/4/6

●VSP-HD20 to 50 W*-4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6W*-2	6	1.8	46	12	35.7	8.4	14.7	5.2	1.6 to 2.9	28
VSP-HD6W*-4		4				11.2				29
VSP-HD6W*-6		6				11.9				30
VSP-HD8W*-2	8	1.8	46.5	12.5	36.2	8.4	14.7	5.2	1.6 to 2.9	28
VSP-HD8W*-4		4				11.2				29
VSP-HD8W*-6		6				11.9				30
VSP-HD10W*-2	10	1.8	50	14.5	39.7	8.4	14.7	5.2	1.6 to 2.9	32
VSP-HD10W*-4		4				11.2				33
VSP-HD10W*-6		6				11.9				34
VSP-HD20W*-2	20	1.8	62	25	51.7	8.4	14.7	5.2	1.6 to 2.9	36
VSP-HD20W*-4		4				11.2				37
VSP-HD20W*-6		6				11.9				38
VSP-HD30W*-2	30	1.8	75.5	38.5	65.2	8.4	14.7	5.2	1.6 to 2.9	42
VSP-HD30W*-4		4				11.2				43
VSP-HD30W*-6		6				11.9				44
VSP-HD40W*-2	40	1.8	82	45	71.7	8.4	14.7	5.2	1.6 to 2.9	52
VSP-HD40W*-4		4				11.2				53
VSP-HD40W*-6		6				11.9				54
VSP-HD50W*-2	50	1.8	93	56	82.7	8.4	14.7	5.2	1.6 to 2.9	64
VSP-HD50W*-4		4				11.2				65
VSP-HD50W*-6		6				11.9				66

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

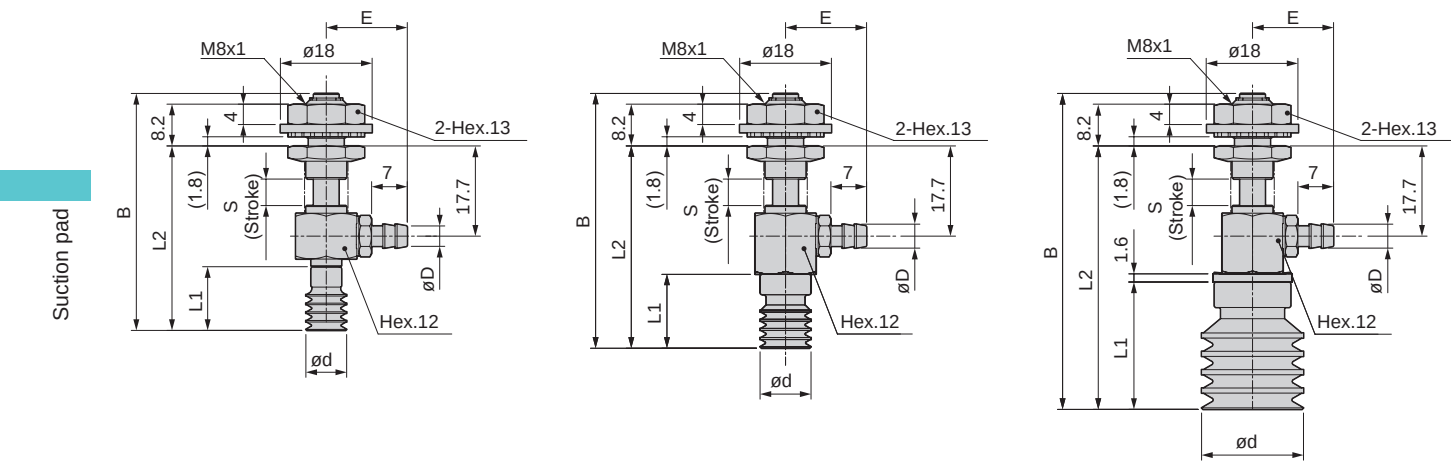
Suction mark
prevention

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, barbed fitting)

●VSP-HD6, 8W*-4T/6T

●VSP-HD10W*-4T/6T

●VSP-HD20 to 50W*-4T/6T



- Suction pad
- General/Deep/Compact
- Sponge
- Bel lows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

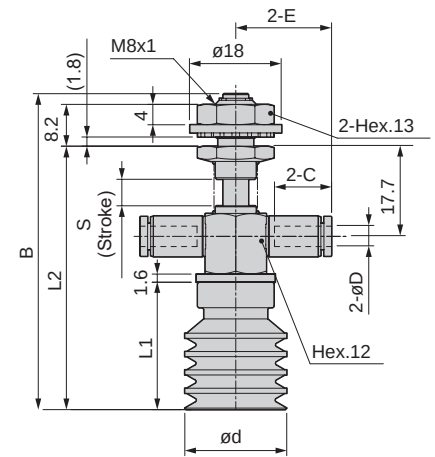
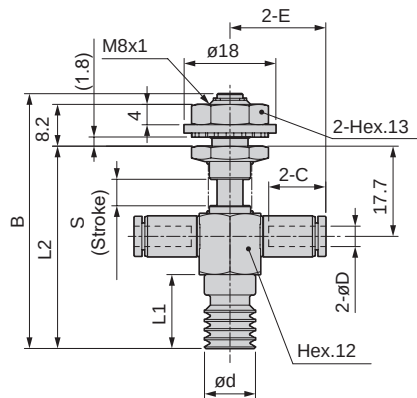
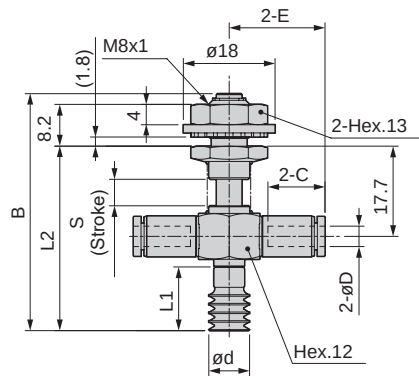
Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6W*-4T	6	2.5	46	12	35.7	15.9	5.2	1.6 to 2.9	28
VSP-HD6W*-6T		4							
VSP-HD8W*-4T	8	2.5	46.5	12.5	36.2	15.9	5.2	1.6 to 2.9	28
VSP-HD8W*-6T		4							
VSP-HD10W*-4T	10	2.5	50	14.5	39.7	15.9	5.2	1.6 to 2.9	31
VSP-HD10W*-6T		4							
VSP-HD20W*-4T	20	2.5	62	25	51.7	15.9	5.2	1.6 to 2.9	36
VSP-HD20W*-6T		4							
VSP-HD30W*-4T	30	2.5	75.5	38.5	65.2	15.9	5.2	1.6 to 2.9	42
VSP-HD30W*-6T		4							
VSP-HD40W*-4T	40	2.5	82	45	71.7	15.9	5.2	1.6 to 2.9	52
VSP-HD40W*-6T		4							
VSP-HD50W*-4T	50	2.5	93	56	82.7	15.9	5.2	1.6 to 2.9	64
VSP-HD50W*-6T		4							

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, push-in fitting)

● VSP-HDW6, 8W*-2/4/6

● VSP-HDW10W*-2/4/6

● VSP-HDW20 to 50 W*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6W*-2	6	1.8	46	12	35.7	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW6W*-4		4				11.2	18.8			32
VSP-HDW6W*-6		6				11.9	20.6			34
VSP-HDW8W*-2	8	1.8	46.5	12.5	36.2	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW8W*-4		4				11.2	18.8			32
VSP-HDW8W*-6		6				11.9	20.6			34
VSP-HDW10W*-2	10	1.8	50	14.5	39.7	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HDW10W*-4		4				11.2	18.8			35
VSP-HDW10W*-6		6				11.9	20.6			37
VSP-HDW20W*-2	20	1.8	62	25	51.7	8.4	14.7	5.2	1.6 to 2.9	38
VSP-HDW20W*-4		4				11.2	18.8			40
VSP-HDW20W*-6		6				11.9	20.6			42
VSP-HDW30W*-2	30	1.8	75.5	38.5	65.2	8.4	14.7	5.2	1.6 to 2.9	44
VSP-HDW30W*-4		4				11.2	18.8			46
VSP-HDW30W*-6		6				11.9	20.6			48
VSP-HDW40W*-2	40	1.8	82	45	71.7	8.4	14.7	5.2	1.6 to 2.9	54
VSP-HDW40W*-4		4				11.2	18.8			56
VSP-HDW40W*-6		6				11.9	20.6			58
VSP-HDW50W*-2	50	1.8	93	56	82.7	8.4	14.7	5.2	1.6 to 2.9	66
VSP-HDW50W*-4		4				11.2	18.8			68
VSP-HDW50W*-6		6				11.9	20.6			70

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

VSP-*W** Series

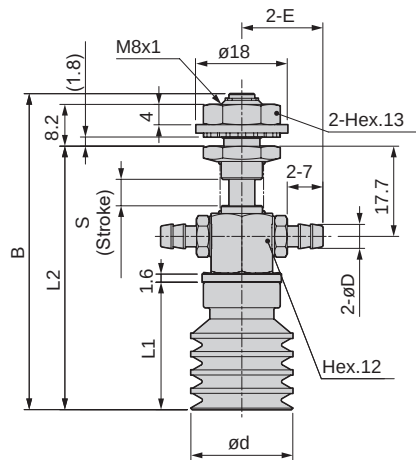
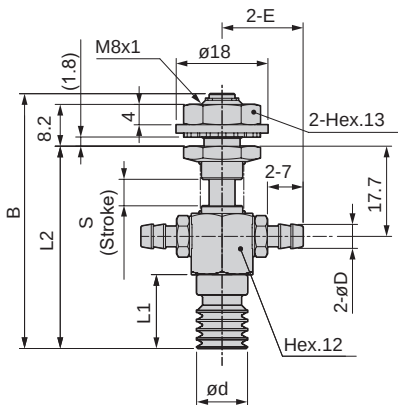
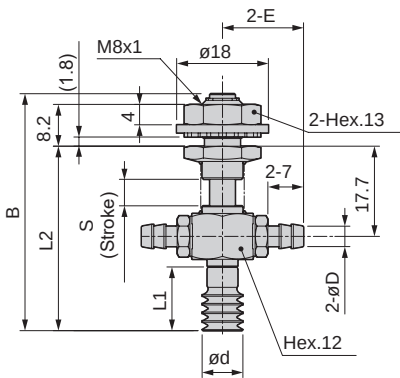
Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HDW, barbed fitting)

●VSP-HDW6, 8*W**-4T/6T

●VSP-HDW10*W**-4T/6T

●VSP-HDW20 to 50*W**-4T/6T

Suction pad



General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

Unit: mm

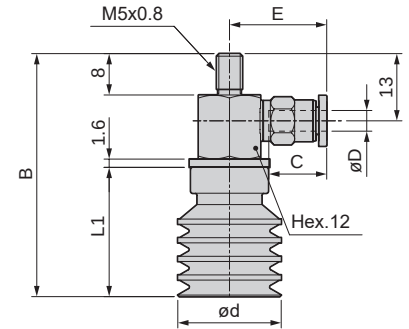
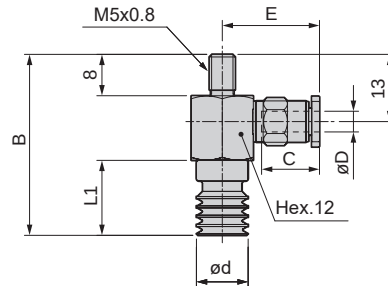
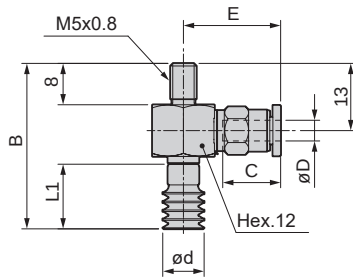
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6 <i>W</i> *-4T	6	2.5	46	12	35.7	15.9	5.2	1.6 to 2.9	28
VSP-HDW6 <i>W</i> *-6T		4							
VSP-HDW8 <i>W</i> *-4T	8	2.5	46.5	12.5	36.2	15.9	5.2	1.6 to 2.9	28
VSP-HDW8 <i>W</i> *-6T		4							
VSP-HDW10 <i>W</i> *-4T	10	2.5	50	14.5	39.7	15.9	5.2	1.6 to 2.9	32
VSP-HDW10 <i>W</i> *-6T		4							
VSP-HDW20 <i>W</i> *-4T	20	2.5	62	25	51.7	15.9	5.2	1.6 to 2.9	37
VSP-HDW20 <i>W</i> *-6T		4							
VSP-HDW30 <i>W</i> *-4T	30	2.5	75.5	38.5	65.2	15.9	5.2	1.6 to 2.9	43
VSP-HDW30 <i>W</i> *-6T		4							
VSP-HDW40 <i>W</i> *-4T	40	2.5	82	45	71.7	15.9	5.2	1.6 to 2.9	53
VSP-HDW40 <i>W</i> *-6T		4							
VSP-HDW50 <i>W</i> *-4T	50	2.5	93	56	82.7	15.9	5.2	1.6 to 2.9	65
VSP-HDW50 <i>W</i> *-6T		4							

Dimensions (low back, fixed, vacuum outlet, side, VSP-HE, push-in fitting)

●VSP-HE6, 8W*-2/4/6

●VSP-HE10W*-2/4/6

●VSP-HE20 to 50W*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE6W*-2	6	1.8	31.5	12	8.4	14.7	14
VSP-HE6W*-4		4			11.2	18.8	15
VSP-HE6W*-6		6			11.9	20.6	16
VSP-HE8W*-2	8	1.8	32	12.5	8.4	14.7	14
VSP-HE8W*-4		4			11.2	18.8	15
VSP-HE8W*-6		6			11.9	20.6	16
VSP-HE10W*-2	10	1.8	35	14.5	8.4	14.7	17
VSP-HE10W*-4		4			11.2	18.8	18
VSP-HE10W*-6		6			11.9	20.6	19
VSP-HE20W*-2	20	1.8	47	25	8.4	14.7	22
VSP-HE20W*-4		4			11.2	18.8	23
VSP-HE20W*-6		6			11.9	20.6	24
VSP-HE30W*-2	30	1.8	60.5	38.5	8.4	14.7	28
VSP-HE30W*-4		4			11.2	18.8	29
VSP-HE30W*-6		6			11.9	20.6	30
VSP-HE40W*-2	40	1.8	67	45	8.4	14.7	38
VSP-HE40W*-4		4			11.2	18.8	39
VSP-HE40W*-6		6			11.9	20.6	40
VSP-HE50W*-2	50	1.8	78	56	8.4	14.7	50
VSP-HE50W*-4		4			11.2	18.8	51
VSP-HE50W*-6		6			11.9	20.6	52

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

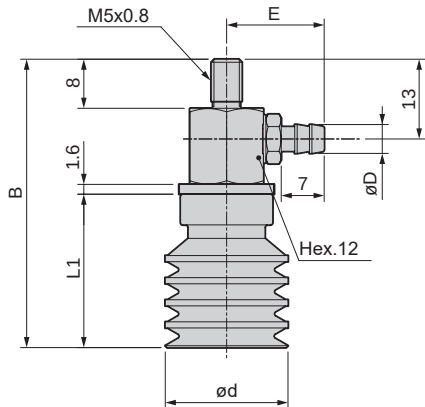
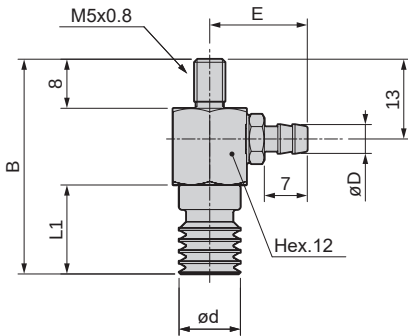
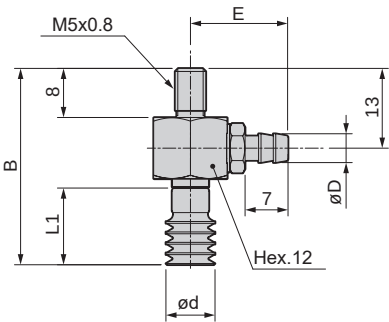
Dimensions (low back, fixed, vacuum outlet, side, VSP-HE, barbed fitting)

●VSP-HE6, 8W*-4T/6T

●VSP-HE10W*-4T/6T

●VSP-HE20 to 50W*-4T/6T

Suction pad



General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

Unit: mm

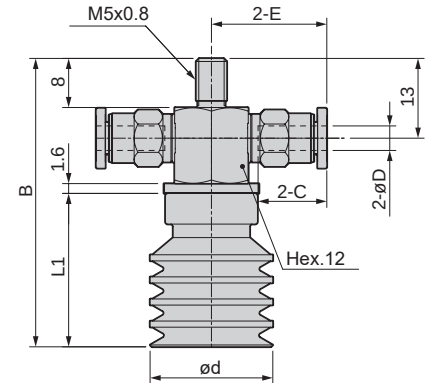
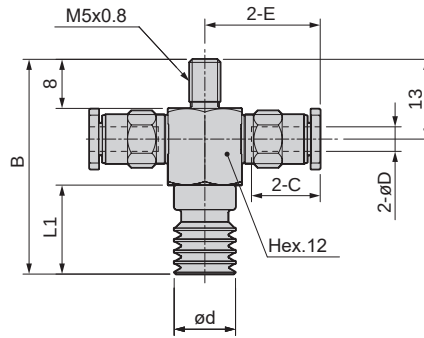
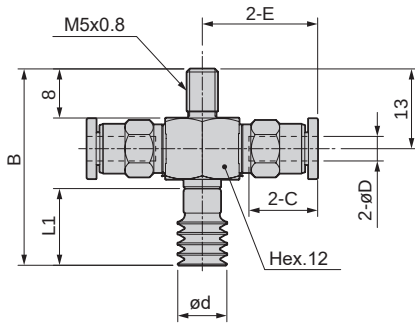
Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HE6W*-4T	6	2.5	31.5	12	15.9	13
VSP-HE6W*-6T		4				
VSP-HE8W*-4T	8	2.5	29.5	12.5	15.9	13
VSP-HE8W*-6T		4				
VSP-HE10W*-4T	10	2.5	35	14.5	15.9	16
VSP-HE10W*-6T		4				
VSP-HE20W*-4T	20	2.5	47	25	15.9	21
VSP-HE20W*-6T		4				
VSP-HE30W*-4T	30	2.5	60.5	38.5	15.9	27
VSP-HE30W*-6T		4				
VSP-HE40W*-4T	40	2.5	67	45	15.9	37
VSP-HE40W*-6T		4				
VSP-HE50W*-4T	50	2.5	78	56	15.9	49
VSP-HE50W*-6T		4				

Dimensions (low back, fixed, vacuum outlet, both sides, VSP-HEW, push-in fitting)

● VSP-HEW6, 8W*-2/4/6

● VSP-HEW10W*-2/4/6

● VSP-HEW20 to 50W*-2/4/6



Unit: mm							
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW6W*-2	6	1.8	31.5	12	8.4	14.7	16
VSP-HEW6W*-4		4			11.2	18.8	18
VSP-HEW6W*-6		6			11.9	20.6	20
VSP-HEW8W*-2	8	1.8	32	12.5	8.4	14.7	16
VSP-HEW8W*-4		4			11.2	18.8	18
VSP-HEW8W*-6		6			11.9	20.6	20
VSP-HEW10W*-2	10	1.8	35	14.5	8.4	14.7	19
VSP-HEW10W*-4		4			11.2	18.8	21
VSP-HEW10W*-6		6			11.9	20.6	23
VSP-HEW20W*-2	20	1.8	47	25	8.4	14.7	23
VSP-HEW20W*-4		4			11.2	18.8	25
VSP-HEW20W*-6		6			11.9	20.6	27
VSP-HEW30W*-2	30	1.8	60.5	38.5	8.4	14.7	29
VSP-HEW30W*-4		4			11.2	18.8	31
VSP-HEW30W*-6		6			11.9	20.6	33
VSP-HEW40W*-2	40	1.8	67	45	8.4	14.7	39
VSP-HEW40W*-4		4			11.2	18.8	41
VSP-HEW40W*-6		6			11.9	20.6	43
VSP-HEW50W*-2	50	1.8	78	56	8.4	14.7	51
VSP-HEW50W*-4		4			11.2	18.8	53
VSP-HEW50W*-6		6			11.9	20.6	55

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

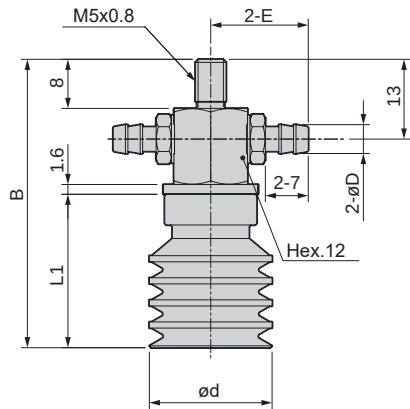
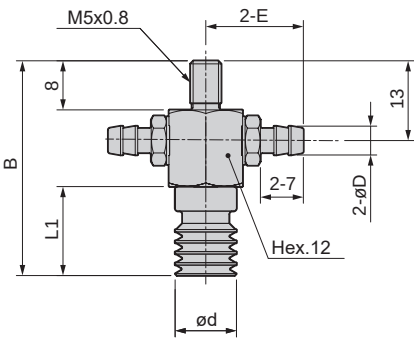
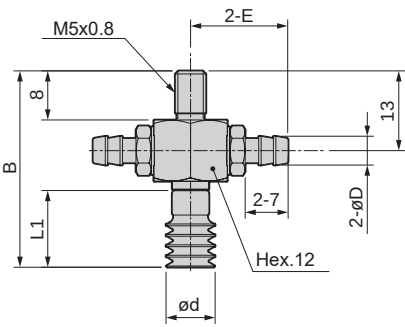
Suction mark
prevention

Dimensions (lightweight, buffer, vacuum outlet, both sides, VSP-HEW, barbed fitting)

●VSP-HEW6, 8W*-4T/6T

●VSP-HEW10W*-4T/6T

●VSP-HEW20 to 50W*-4T/6T



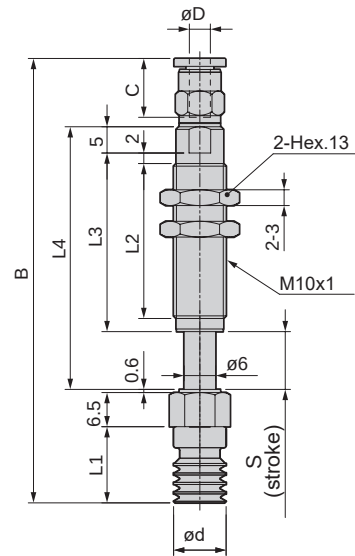
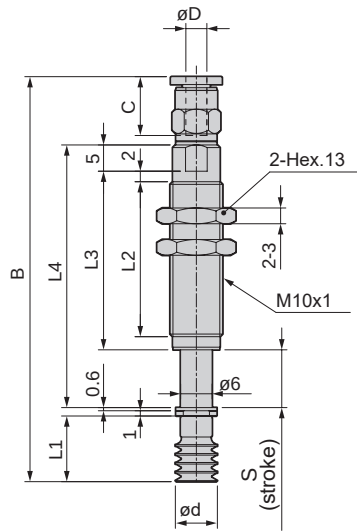
- Suction pad
- General/Deep/Compact
- Sponge
- Bel lows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW6W*-4T	6	2.5	31.5	12	15.9	14
VSP-HEW6W*-6T		4				
VSP-HEW8W*-4T	8	2.5	29.5	12.5	15.9	14
VSP-HEW8W*-6T		4				
VSP-HEW10W*-4T	10	2.5	35	14.5	15.9	17
VSP-HEW10W*-6T		4				
VSP-HEW20W*-4T	20	2.5	47	25	15.9	22
VSP-HEW20W*-6T		4				
VSP-HEW30W*-4T	30	2.5	60.5	38.5	15.9	28
VSP-HEW30W*-6T		4				
VSP-HEW40W*-4T	40	2.5	67	45	15.9	38
VSP-HEW40W*-6T		4				
VSP-HEW50W*-4T	50	2.5	78	56	15.9	50
VSP-HEW50W*-6T		4				

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC6, 8-□W*-4

●VSP-LFC10-□W*-4



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC6-2W*-4	6	4	60.6	12	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC6-5W*-4			66.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC6-10W*-4			76.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC6-15W*-4			86.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC6-20W*-4			96.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC8-2W*-4	8	4	61.1	12.5	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC8-5W*-4			67.1		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC8-10W*-4			77.1		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC8-15W*-4			87.1		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC8-20W*-4			97.1		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	33
VSP-LFC10-2W*-4	10	4	68.6	14.5	21.5	26	34	11.2	2	1.3 to 1.8	28
VSP-LFC10-5W*-4			74.6		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC10-10W*-4			84.6		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC10-15W*-4			94.6		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC10-20W*-4			104.6		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	35

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

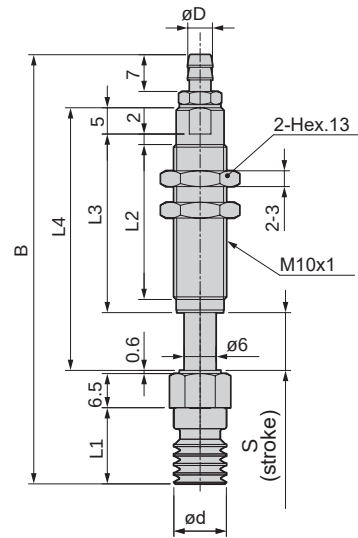
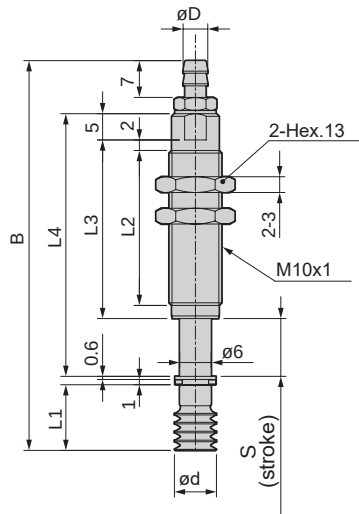
Flat

Suction mark
prevention

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

●VSP-LFC6, 8-□W*-4T/6T

●VSP-LFC10-□W*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC6-2W*-4T	6	2.5	57.7	12	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC6-2W*-6T		4								
VSP-LFC6-5W*-4T		2.5	63.7		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC6-5W*-6T		4								
VSP-LFC6-10W*-4T		2.5	73.7		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC6-10W*-6T		4								
VSP-LFC6-15W*-4T		2.5	83.7		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC6-15W*-6T		4								
VSP-LFC6-20W*-4T		2.5	93.7		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC6-20W*-6T		4								
VSP-LFC8-2W*-4T	8	2.5	58.2	12.5	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC8-2W*-6T		4								
VSP-LFC8-5W*-4T		2.5	64.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC8-5W*-6T		4								
VSP-LFC8-10W*-4T		2.5	74.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC8-10W*-6T		4								
VSP-LFC8-15W*-4T		2.5	84.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC8-15W*-6T		4								
VSP-LFC8-20W*-4T		2.5	94.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC8-20W*-6T		4								
VSP-LFC10-2W*-4T	10	2.5	65.7	14.5	21.5	26	34	2	1.3 to 1.8	26
VSP-LFC10-2W*-6T		4								
VSP-LFC10-5W*-4T		2.5	71.7		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	28
VSP-LFC10-5W*-6T		4								
VSP-LFC10-10W*-4T		2.5	81.7		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	30
VSP-LFC10-10W*-6T		4								
VSP-LFC10-15W*-4T		2.5	91.7		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	32
VSP-LFC10-15W*-6T		4								
VSP-LFC10-20W*-4T		2.5	101.7		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	34
VSP-LFC10-20W*-6T		4								

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

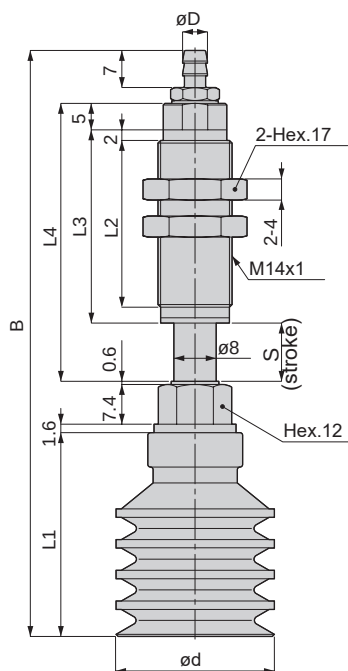
Anti-slip

Thin object

Flat

Suction mark
prevention

●VSP-LFC20 to 50-□W*-4T/6T

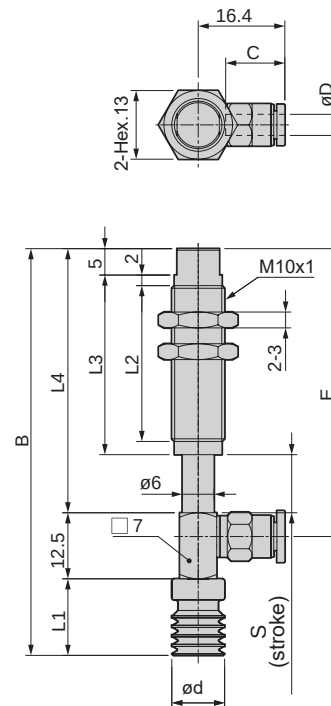


Suction pad	General/Deep/ Compact	Sponge
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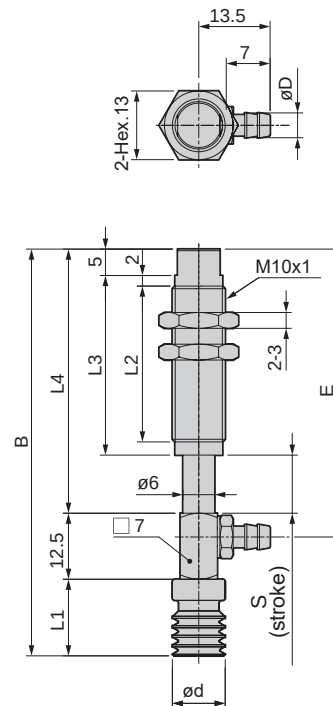
Bel lows	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
Multi-stage bellows	VSP-LFC20-5W*-4T	20	2.5	87.2	25	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	53
	4										
	VSP-LFC20-10W*-4T		2.5	97.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	55
	VSP-LFC20-10W*-6T		4								
Oval	VSP-LFC20-15W*-4T		2.5	107.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	58
	VSP-LFC20-15W*-6T		4								
	VSP-LFC20-20W*-4T		2.5	117.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	61
	VSP-LFC20-20W*-6T		4								
Soft	VSP-LFC30-5W*-4T	30	2.5	100.7	38.5	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	59
	VSP-LFC30-5W*-6T		4								
Soft bellows	VSP-LFC30-10W*-4T		2.5	110.7		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	61
	VSP-LFC30-10W*-6T		4								
	VSP-LFC30-15W*-4T		2.5	120.7		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	64
	VSP-LFC30-15W*-6T		4								
Anti-slip	VSP-LFC30-20W*-4T		2.5	130.7		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	67
	VSP-LFC30-20W*-6T		4								
Thin object	VSP-LFC40-5W*-4T	40	2.5	107.2	45	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	69
	VSP-LFC40-5W*-6T		4								
Flat	VSP-LFC40-10W*-4T		2.5	117.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	71
	VSP-LFC40-10W*-6T		4								
	VSP-LFC40-15W*-4T		2.5	127.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	74
	VSP-LFC40-15W*-6T		4								
Suction mark prevention	VSP-LFC40-20W*-4T		2.5	137.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	77
	VSP-LFC40-20W*-6T		4								
	VSP-LFC50-5W*-4T	50	2.5	118.2	56	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	81
	VSP-LFC50-5W*-6T		4								
	VSP-LFC50-10W*-4T		2.5	128.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	83
	VSP-LFC50-10W*-6T		4								
	VSP-LFC50-15W*-4T		2.5	138.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	86
	VSP-LFC50-15W*-6T		4								
VSP-LFC50-20W*-4T	2.5		148.2	41.5		46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	89	
VSP-LFC50-20W*-6T	4										

*1: Values in [] are for low load.

●VSP-LFD10-□W*-4

Unit: mm

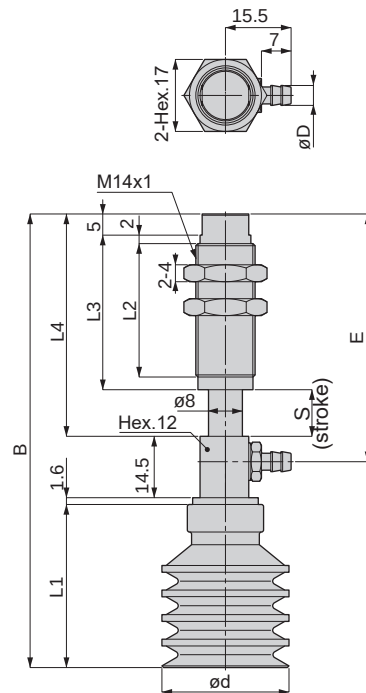
●VSP-LFD10-□W*-4T/6T



Suction pad	General/Deep/Compact	Sponge	Bellows	Multi-stage bellows	Oval	Soft	Soft bellows	Anti-slip	Thin object	Flat	Suction mark prevention
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Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD20 to 50-□W*-4T/6T

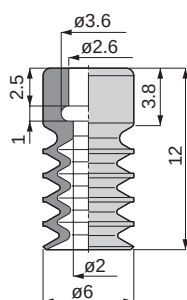


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD20-5W*-4T	20	2.5	83.5	25	26.5	31.5	42.5	48.5	5	4.5 to 6.5	55
VSP-LFD20-5W*-6T		4									
VSP-LFD20-10W*-4T		2.5	93.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	58
VSP-LFD20-10W*-6T		4									
VSP-LFD20-15W*-4T		2.5	103.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	62
VSP-LFD20-15W*-6T		4									
VSP-LFD20-20W*-4T		2.5	113.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	66
VSP-LFD20-20W*-6T		4									
VSP-LFD30-5W*-4T	30	2.5	97	38.5	26.5	31.5	42.5	48.5	5	4.5 to 6.5	61
VSP-LFD30-5W*-6T		4									
VSP-LFD30-10W*-4T		2.5	107		31.5	36.5	52.5	58.5	10	4.5 to 8.2	64
VSP-LFD30-10W*-6T		4									
VSP-LFD30-15W*-4T		2.5	117		36.5	41.5	62.5	68.5	15	4.5 to 9.9	68
VSP-LFD30-15W*-6T		4									
VSP-LFD30-20W*-4T		2.5	127		41.5	46.5	72.5	78.5	20	4.5 to 14.9	72
VSP-LFD30-20W*-6T		4									
VSP-LFD40-5W*-4T	40	2.5	103.5	45	26.5	31.5	42.5	48.5	5	4.5 to 6.5	71
VSP-LFD40-5W*-6T		4									
VSP-LFD40-10W*-4T		2.5	113.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	74
VSP-LFD40-10W*-6T		4									
VSP-LFD40-15W*-4T		2.5	123.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	78
VSP-LFD40-15W*-6T		4									
VSP-LFD40-20W*-4T		2.5	133.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	82
VSP-LFD40-20W*-6T		4									
VSP-LFD50-5W*-4T	50	2.5	114.5	56	26.5	31.5	42.5	48.5	5	4.5 to 6.5	83
VSP-LFD50-5W*-6T		4									
VSP-LFD50-10W*-4T		2.5	124.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	86
VSP-LFD50-10W*-6T		4									
VSP-LFD50-15W*-4T		2.5	134.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	90
VSP-LFD50-15W*-6T		4									
VSP-LFD50-20W*-4T		2.5	144.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	94
VSP-LFD50-20W*-6T		4									

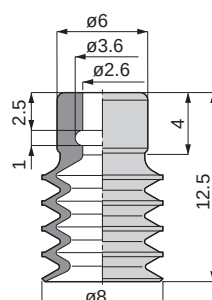
Dimensions: pad only

●VSPG-6W*



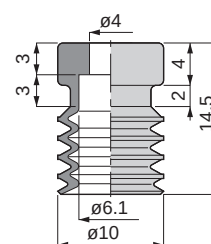
Weight: 0.4g [6g]

●VSPG-8W*



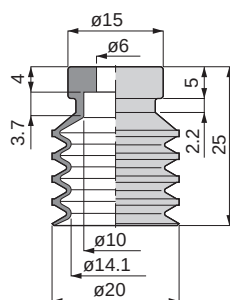
Weight: 0.5g [g]

●VSPG-10W*



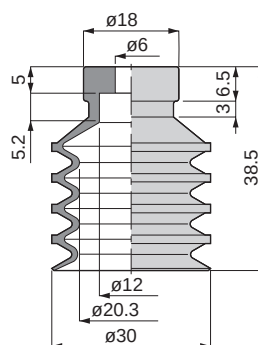
Weight: 0.6g [0g]

●VSPG-20W*



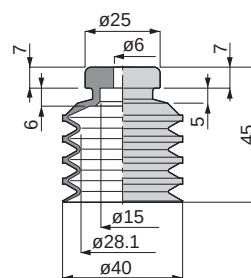
Weight: 2.4g [.6g]

●VSPG-30W*



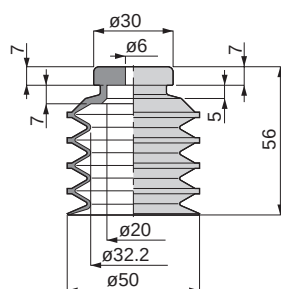
Weight: 6.7g [0.1g]

●VSPG-40W*



Weight: 15g [3g]

●VSPG-50W*



Weight: 25g [7.5g]

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

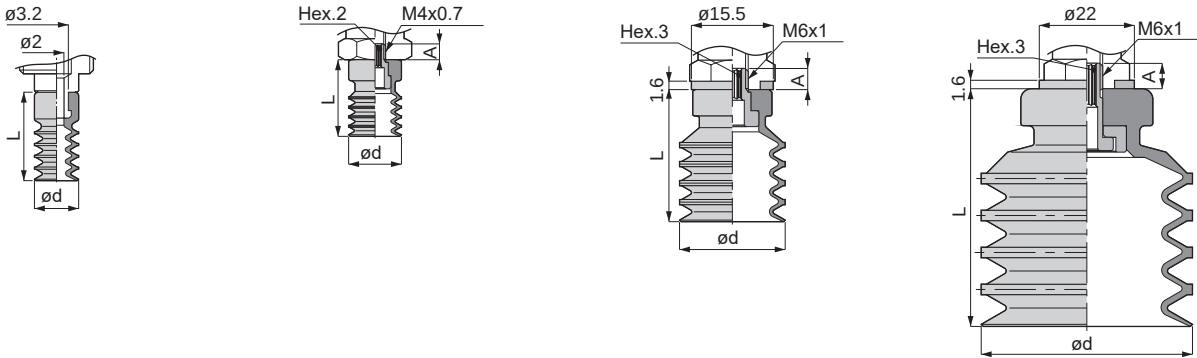
Suction mark
prevention

* Values in [] for fluoro rubber only.

VSPG-*W* Series

Detailed view of pad and holder connection

- VSPG-6, 8W*
- VSPG-10W*A
- VSPG-20W*30W*A
- VSPG-40, 50W*A

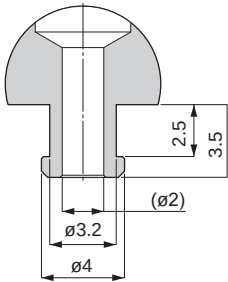


Unit: mm

Model No.	Pad O.D ød	L	Fixing screw	A
VSPG-6W*	6	6	-	-
VSPG-8W*	8	8	-	-
VSPG-10W*A	10	10	10	3
VSPG-20W*A	20	20	20	4
VSPG-30W*A	30	30	30	5
VSPG-40W*A	40	40	40	5
VSPG-50W*A	50	50	50	5

Pad fitting part dimensions

- VSPG-6, 8W*



 Safety precautions

WARNING

- Since the multi-stage bellows type pads may adhere together due to working conditions and material characteristics, confirm performance with an actual device. In addition, since stickiness may increase due to the operating environment and pad wear, review as necessary the pad shape, material, quantity, etc.
- Do not use the multi-stage bellows type in a way that excessively collapses. If it is compressed too much, the bellows part may wear quickly, or cracks in the lip part may occur, or deformation due to strain may cause suction failure.

Suction pad	
General/Deep/ Compact	
Sponge	
Bellows	
Multi-stage bellows	
Oval	
Soft	
Soft bellows	
Anti-slip	
Thin object	
Flat	
Suction mark prevention	



Suction pad oval

VSP-* E* Series

Oval suction pad convenient for cases when a circular suction surface cannot be secured

RoHS

Ideal for transporting long workpieces such as substrates and semiconductors

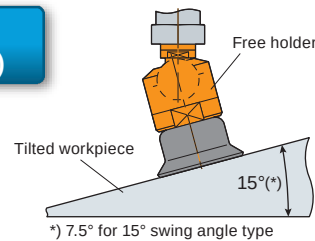
A wide range of holder variations

Shape	16types	Pipingconnection	5types	Stroke	10types
- Standard 5 types - Compact Class 4 - Low dust generation 2 types	- Lightweight 3 types - Low back: 2 types	- Push-in fitting (ø1.8 to ø6) Three types - Barbed fitting (ø4, ø6) Two types		4mm to 50mm (Depends on the pad size and holder)	

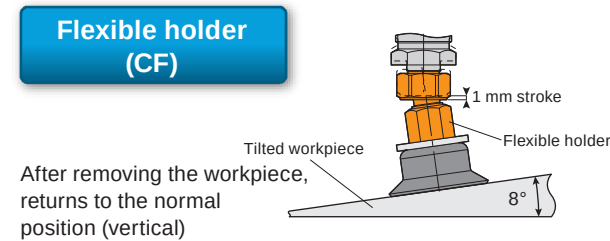
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle

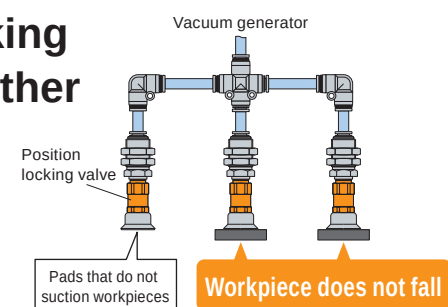
Free holder
(F1:30°, F2:15°)



Flexible holder
(CF)



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece

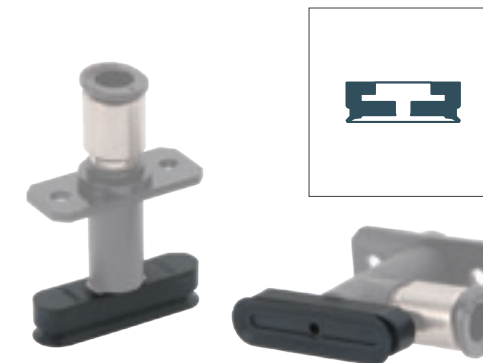


Pad surface treatment (option) is available for special treatment to reduce suction marks

Code	-DL	-ER	-FG
	Anti-sticking	Suction mark relief	Fluorine coating
Surface-treated			
Compatible materials	Silicone Fluorine Conductive silicone	Nitriles Conductive NBR (low resistance)	Silicone Conductive silicone
Features	Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

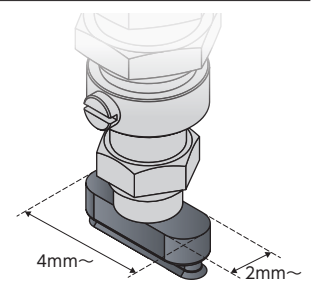
VSP-* E* Series

Pad shape



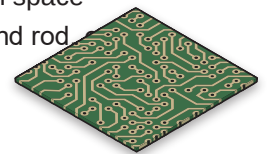
Large suction area with oval shape

Available from 2 mm×4 mm for use with a small suction space. Suction area can be secured even in narrow spaces.



Recommended workpiece

Workpieces with limited suction space (substrate, semiconductor, round rod)



Pad size

13 types

2x4	3.5x7	4x10	5x10	6x10	4x20	5x20
6x20	8x20	4x30	5x30	6x30	8x30	

Pad material

9 types

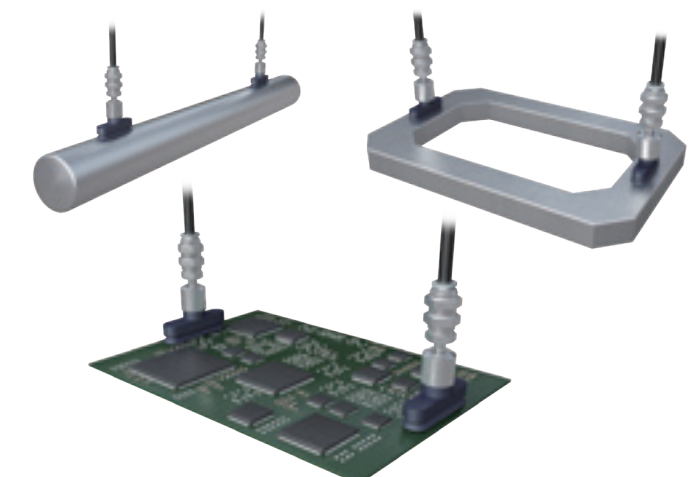
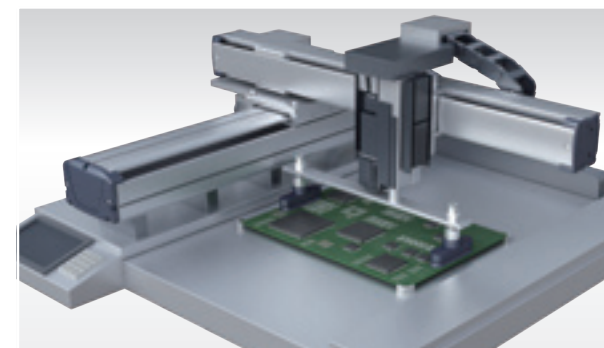
Nitriles	silicone	Urethane	Fluorine	Conductive silicone
Conductive butadiene (low resistance)	Conductive NBR (low resistance)	HNBR	EPDM	

* Silicone (S) is compatible with the Food Sanitation Act. (Holder is not supported/suction pad is compatible only with workpiece contact part.)

Solution examples

Elongated workpiece

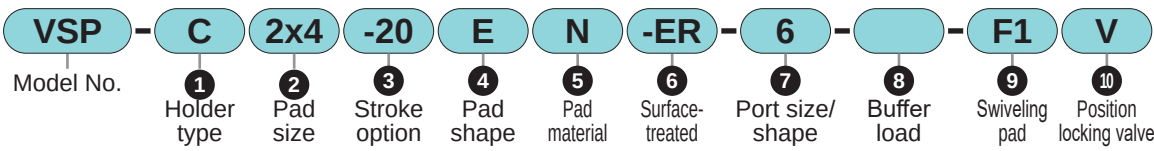
Supports workpieces such as electronic base, pipe, and frame, for which it is difficult to secure a suction area with circular pads.



How to order

● Oval

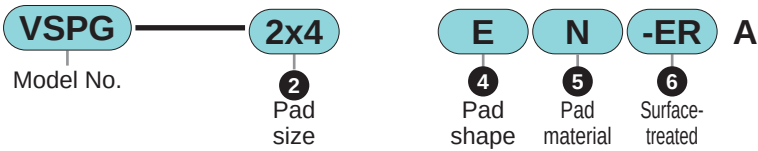
Suction pad



Pad rubber only



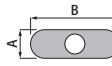
Pad rubber + set with fixing screw



1 Holder type

With/Without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact		MA	
	Screw fixing		AE	
	Standard	Lateral direction	B	
	Compact		MB	
	Low height		HE	
		Both lateral directions	HEW	
	Screw fixing	Lateral direction	BE	

2 Pad size

Pad shape	E									Code
Pad material	N	S	U	F	SE	E	NE	HN	EP	
 Description: Size (AxB)										
2 mm×4 mm	●	●	●	●	●	■	●	●	●	2x4
3.5 mm×7 mm	●	●	●	●	●	■	●	●	●	3.5x7
4 mm×10 mm	●	●	●	●	●	■	●	●	●	4x10
4 mm×20 mm	●	●	●	●	●	●	●	●	●	4x20
4 mm×30 mm	●	●	■	■	●	●	●	●	●	4x30
5 mm×10 mm	●	●	●	●	●	●	●	●	●	5x10
5 mm×20 mm	●	●	●	●	●	●	●	●	●	5x20
5 mm×30 mm	●	●	●	●	●	●	●	●	●	5x30
6 mm×10 mm	●	●	●	●	●	●	●	●	●	6x10
6 mm×20 mm	●	●	●	●	●	●	●	●	●	6x20
6 mm×30 mm	●	●	●	●	●	●	●	●	●	6x30
8 mm×20 mm	●	●	●	●	●	●	●	●	●	8x20
8 mm×30 mm	●	●	●	●	●	●	●	●	●	8x30

4 Pad shape

Code	Description	
E	Oval	

3 Stroke option

Description	Holder type					Code
	C	D	HC	LFC	LFD	
Specified stroke or without buffer	●	●	●	●	●	Blank
Stroke 5 mm	●	●	●	●	●	-5
Stroke 10 mm	●	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	●	-20
Stroke 25 mm	●	●	●	●	●	-25
Stroke 30 mm	●	●	●	●	●	-30
Stroke 40 mm	●	●	●	●	●	-40
Stroke 50 mm	●	●	●	●	●	-50

*1: Blank for 3 models other than C, D, HC, LFC, LFD.

*2: 3 For the designated stroke with blank, check the stroke dimensions.

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
U	Urethane rubber
F	Fluoro rubber
SE	Conductive silicone rubber
E	Conductive butadiene rubber (low resistance)
NE	Conductive NBR (low resistance)
HN	HNBR
EP	EPDM

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/ rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

6 Surface-treated

Description	Compatible pad material					Supported pad diameter	Code
	N	S	F	SE	NE	Oval (E)	
No surface treatment						All pads material, all pads size	Blank
Anti-stick special coating		●	●	●		All sizes	-DL
Suction mark reduction surface modification	●				●	All sizes	-ER
Fluorine coating		●		●		All sizes	-FG

7 Port size/shape

Description	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW	AE	BE	Code	
(1: for F)																		Blank	
ø1.8 push-in fitting						●	●	●			●	●	●	●	●	●	●	2	
ø4 push-in fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4	
ø6 push-in fitting	●	●	●	●		●		●	●	●	●	●	●	●	●	●	●	6	
ø4 Push-in fitting, without spring cover			●	●														4C	
ø6 Push-in fitting, without spring cover			●	●														6C	
ø4 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4T	
ø6 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6T	
ø4 barbed fitting, without spring cover			●	●														4TC	
ø6 Barbed fitting, without spring cover			●	●														6TC	

*1: If -20 to -50 is available for C and D, 4C, 6C, 4TC, 6TC can be selected.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1

*1: 1 Blank for models other than LFC.

9 Swiveling pad

Code	Description	
Blank	None	
F1	With free holder swing angle 30°	
F2	With free holder swing angle 15°	
CF	With flexible holder angle of 8°	

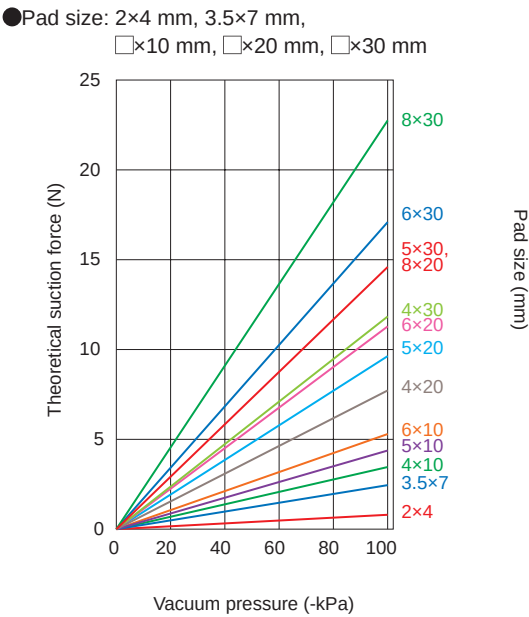
*1: 1 For AE and BE, 9 is blank.

10 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

*1: 1 For AE and BE, 10 is blank.

Theoretical suction force

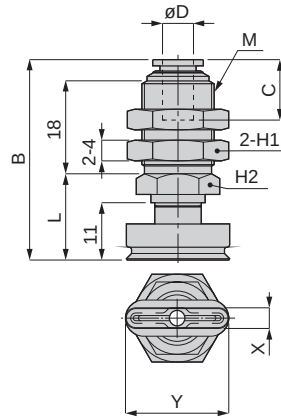


*Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use.

Before selection, use the suction force obtained by "Selection method of suction pad" (page 288) as a guide, and make sure that there is no problem with the suction capacity on the actual machine.

Dimensions (fixed, vacuum outlet, top, VSP-A, push-in fitting)

●VSP-A*E*-4/6



Unit: mm

Model No.	Pad size		Bore size øD	Mounting screw M	B	L	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
	X	Y								
VSP-A2×4E*-4	2	4	4	M12x1	47.9	17	11.2	14	12	26
VSP-A2×4E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A3.5×7E*-4	3.5	7	4	M12x1	47.9	17	11.2	14	12	26
VSP-A3.5×7E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A4×10E*-4	4	10	4	M12x1	47.9	17	11.2	14	12	26
VSP-A4×10E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A4×20E*-4		20	4	M12x1	47.9	17	11.2	14	12	26
VSP-A4×20E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A4×30E*-4		30	4	M12x1	47.9	17	11.2	14	12	27
VSP-A4×30E*-6			6	M14x1	38.9	16.6	11.9	17	14	33
VSP-A5×10E*-4	5	10	4	M12x1	47.9	17	11.2	14	12	26
VSP-A5×10E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A5×20E*-4		20	4	M12x1	47.9	17	11.2	14	12	26
VSP-A5×20E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A5×30E*-4		30	4	M12x1	47.9	17	11.2	14	12	26
VSP-A5×30E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A6×10E*-4	6	10	4	M12x1	47.9	17	11.2	14	12	26
VSP-A6×10E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A6×20E*-4		20	4	M12x1	47.9	17	11.2	14	12	26
VSP-A6×20E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A6×30E*-4		30	4	M12x1	47.9	17	11.2	14	12	27
VSP-A6×30E*-6			6	M14x1	38.9	16.6	11.9	17	14	33
VSP-A8×20E*-4	8	20	4	M12x1	47.9	17	11.2	14	12	26
VSP-A8×20E*-6			6	M14x1	38.9	16.6	11.9	17	14	32
VSP-A8×30E*-4		30	4	M12x1	47.9	17	11.2	14	12	27
VSP-A8×30E*-6			6	M14x1	38.9	16.6	11.9	17	14	33

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

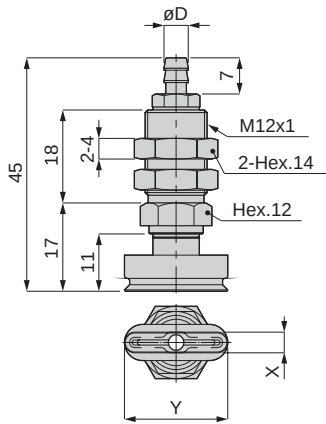
Thin object

Flat

Suction mark
prevention

Dimensions (fixed, vacuum outlet, top, VSP-A, barbed fitting)

●VSP-A*E*-4T/6T

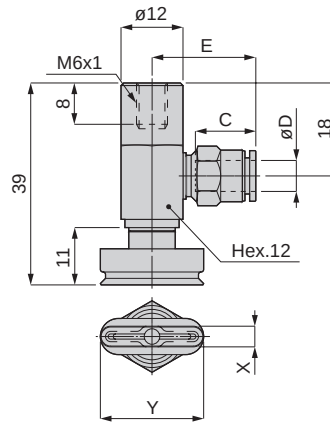


Unit: mm

Model No.	Pad size		Bore size	Weight
	X	Y	øD	(g)
VSP-A2×4E*-4T	2	4	2.5	25
VSP-A2×4E*-6T			4	
VSP-A3.5×7E*-4T	3.5	7	2.5	25
VSP-A3.5×7E*-6T			4	
VSP-A4×10E*-4T	4	10	2.5	25
VSP-A4×10E*-6T			4	
VSP-A4×20E*-4T		20	2.5	26
VSP-A4×20E*-6T			4	
VSP-A4×30E*-4T		30	2.5	26
VSP-A4×30E*-6T			4	
VSP-A5×10E*-4T	5	10	2.5	25
VSP-A5×10E*-6T			4	
VSP-A5×20E*-4T		20	2.5	26
VSP-A5×20E*-6T			4	
VSP-A5×30E*-4T		30	2.5	26
VSP-A5×30E*-6T			4	
VSP-A6×10E*-4T	6	10	2.5	25
VSP-A6×10E*-6T			4	
VSP-A6×20E*-4T		20	2.5	26
VSP-A6×20E*-6T			4	
VSP-A6×30E*-4T		30	2.5	26
VSP-A6×30E*-6T			4	
VSP-A8×20E*-4T	8	20	2.5	26
VSP-A8×20E*-6T			4	
VSP-A8×30E*-4T		30	2.5	26
VSP-A8×30E*-6T			4	

Dimensions (fixed, vacuum outlet, side, VSP-B, push-in fitting)

●VSP-B*E*-4/6



Unit: mm

Model No.	Pad size		Bore size	Tube end	E	Weight
	X	Y	øD	C		(g)
VSP-B2×4E*-4	2	4	4	11.2	18.8	28
VSP-B2×4E*-6			6	11.9	20.1	29
VSP-B3.5×7E*-4	3.5	7	4	11.2	18.8	28
VSP-B3.5×7E*-6			6	11.9	20.1	29
VSP-B4×10E*-4	4	10	4	11.2	18.8	28
VSP-B4×10E*-6			6	11.9	20.1	29
VSP-B4×20E*-4		20	4	11.2	18.8	29
VSP-B4×20E*-6			6	11.9	20.1	30
VSP-B4×30E*-4		30	4	11.2	18.8	29
VSP-B4×30E*-6			6	11.9	20.1	30
VSP-B5×10E*-4	5	10	4	11.2	18.8	28
VSP-B5×10E*-6			6	11.9	20.1	29
VSP-B5×20E*-4		20	4	11.2	18.8	29
VSP-B5×20E*-6			6	11.9	20.1	30
VSP-B5×30E*-4		30	4	11.2	18.8	29
VSP-B5×30E*-6			6	11.9	20.1	30
VSP-B6×10E*-4	6	10	4	11.2	18.8	28
VSP-B6×10E*-6			6	11.9	20.1	29
VSP-B6×20E*-4		20	4	11.2	18.8	29
VSP-B6×20E*-6			6	11.9	20.1	30
VSP-B6×30E*-4		30	4	11.2	18.8	29
VSP-B6×30E*-6			6	11.9	20.1	30
VSP-B8×20E*-4	8	20	4	11.2	18.8	29
VSP-B8×20E*-6			6	11.9	20.1	30
VSP-B8×30E*-4		30	4	11.2	18.8	29
VSP-B8×30E*-6			6	11.9	20.1	30

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

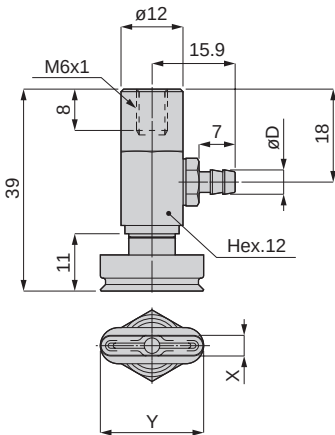
Thin object

Flat

Suction mark prevention

Dimensions (fixed, vacuum outlet, side, VSP-B, barbed fitting)

●VSP-B*E*-4T/6T

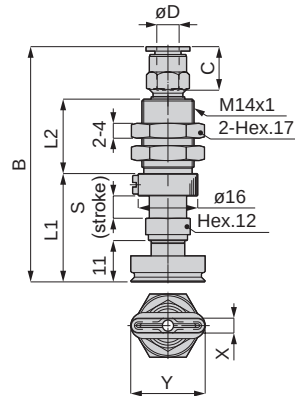


Unit: mm

Model No.	Pad size		Bore size	Weight (g)
	X	Y	øD	
VSP-B2×4E*-4T	2	4	2.5	27
VSP-B2×4E*-6T			4	
VSP-B3.5×7E*-4T	3.5	7	2.5	27
VSP-B3.5×7E*-6T			4	
VSP-B4×10E*-4T	4	10	2.5	27
VSP-B4×10E*-6T			4	
VSP-B4×20E*-4T		20	2.5	28
VSP-B4×20E*-6T			4	
VSP-B4×30E*-4T		30	2.5	28
VSP-B4×30E*-6T			4	
VSP-B5×10E*-4T	5	10	2.5	27
VSP-B5×10E*-6T			4	
VSP-B5×20E*-4T		20	2.5	28
VSP-B5×20E*-6T			4	
VSP-B5×30E*-4T		30	2.5	28
VSP-B5×30E*-6T			4	
VSP-B6×10E*-4T	6	10	2.5	27
VSP-B6×10E*-6T			4	
VSP-B6×20E*-4T		20	2.5	28
VSP-B6×20E*-6T			4	
VSP-B6×30E*-4T		30	2.5	28
VSP-B6×30E*-6T			4	
VSP-B8×20E*-4T	8	20	2.5	28
VSP-B8×20E*-6T			4	
VSP-B8×30E*-4T		30	2.5	28
VSP-B8×30E*-6T			4	

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C*E*-4/6
- VSP-C*-□E*-4/6

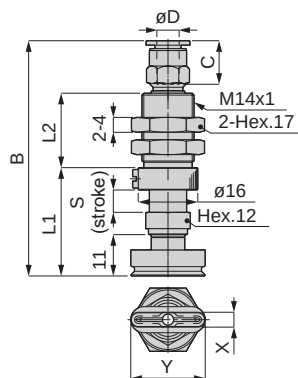


Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
	X	Y								
VSP-C2×4E*-4	2	4	4	62	29	20	11.2	6	7.0 to 12.6	34
VSP-C2×4E*-6			6	63.3			11.9			35
VSP-C2×4-10E*-4			4	68	35		11.2	10	3.3 to 10.0	37
VSP-C2×4-10E*-6			6	69.3			11.9			38
VSP-C2×4-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	41
VSP-C2×4-15E*-6			6	79.3			11.9			42
VSP-C2×4-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	46
VSP-C2×4-20E*-6			6	95.3			11.9			47
VSP-C3.5×7E*-4	3.5	7	4	62	29	20	11.2	6	7.0 to 12.6	34
VSP-C3.5×7E*-6			6	63.3			11.9			35
VSP-C3.5×7-10E*-4			4	68	35		11.2	10	3.3 to 10.0	37
VSP-C3.5×7-10E*-6			6	69.3			11.9			38
VSP-C3.5×7-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	41
VSP-C3.5×7-15E*-6			6	79.3			11.9			42
VSP-C3.5×7-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	48
VSP-C3.5×7-20E*-6			6	95.3			11.9			49
VSP-C4×10E*-4	4	10	4	62	29	20	11.2	6	7.0 to 12.6	34
VSP-C4×10E*-6			6	63.3			11.9			35
VSP-C4×10-10E*-4			4	68	35		11.2	10	3.3 to 10.0	37
VSP-C4×10-10E*-6			6	69.3			11.9			38
VSP-C4×10-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	41
VSP-C4×10-15E*-6			6	79.3			11.9			42
VSP-C4×10-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	48
VSP-C4×10-20E*-6			6	95.3			11.9			49
VSP-C4×20E*-4		20	4	62	29	20	11.2	6	7.0 to 12.6	35
VSP-C4×20E*-6			6	63.3			11.9			36
VSP-C4×20-10E*-4			4	68	35		11.2	10	3.3 to 10.0	37
VSP-C4×20-10E*-6			6	69.3			11.9			38
VSP-C4×20-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
VSP-C4×20-15E*-6			6	79.3			11.9			43
VSP-C4×20-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
VSP-C4×20-20E*-6			6	95.3			11.9			50
VSP-C4×30E*-4		30	4	62	29	20	11.2	6	7.0 to 12.6	35
VSP-C4×30E*-6			6	63.3			11.9			36
VSP-C4×30-10E*-4			4	68	35		11.2	10	3.3 to 10.0	38
VSP-C4×30-10E*-6			6	69.3			11.9			39
VSP-C4×30-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
VSP-C4×30-15E*-6			6	79.3			11.9			43
VSP-C4×30-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
VSP-C4×30-20E*-6			6	95.3			11.9			50

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C*E*-4/6
- VSP-C*-□E*-4/6

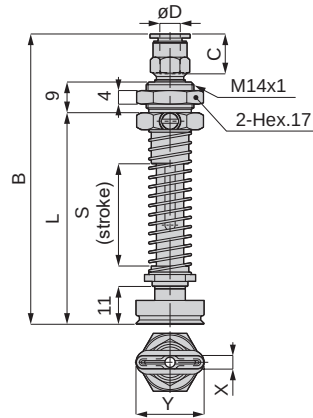


Unit: mm

	Model No.	Pad size		Bore size ØD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
		X	Y								
Suction pad	VSP-C5×10E*-4	5	10	4	62	29	20	11.2	6	7.0 to 12.6	34
	VSP-C5×10E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	35
	VSP-C5×10-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	37
	VSP-C5×10-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	38
	VSP-C5×10-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	41
	VSP-C5×10-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	42
	VSP-C5×10-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	48
	VSP-C5×10-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	49
	VSP-C5×20E*-4		20	4	62	29	20	11.2	6	7.0 to 12.6	35
	VSP-C5×20E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	36
General/Deep/ Compact	VSP-C5×20-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	37
	VSP-C5×20-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	38
Sponge	VSP-C5×20-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
	VSP-C5×20-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	43
Bellows	VSP-C5×20-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C5×20-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50
Multi-stage bellows	VSP-C5×30E*-4		30	4	62	29	20	11.2	6	7.0 to 12.6	35
	VSP-C5×30E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	36
	VSP-C5×30-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	38
	VSP-C5×30-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	39
	VSP-C5×30-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
	VSP-C5×30-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	43
	VSP-C5×30-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C5×30-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50
Oval	VSP-C6×10E*-4	6	10	4	62	29	20	11.2	6	7.0 to 12.6	34
	VSP-C6×10E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	35
	VSP-C6×10-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	37
	VSP-C6×10-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	38
	VSP-C6×10-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	41
	VSP-C6×10-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	42
	VSP-C6×10-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	48
	VSP-C6×10-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	49
	VSP-C6×20E*-4		20	4	62	29	20	11.2	6	7.0 to 12.6	35
	VSP-C6×20E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	36
Soft bellows	VSP-C6×20-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	37
	VSP-C6×20-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	38
Soft bellows	VSP-C6×20-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
	VSP-C6×20-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	43
Anti-slip	VSP-C6×20-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C6×20-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50
Thin object	VSP-C6×30E*-4		30	4	62	29	20	11.2	6	7.0 to 12.6	35
	VSP-C6×30E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	36
	VSP-C6×30-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	38
	VSP-C6×30-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	39
	VSP-C6×30-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
	VSP-C6×30-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	43
	VSP-C6×30-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C6×30-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50
Flat	VSP-C8×20E*-4	8	20	4	62	29	20	11.2	6	7.0 to 12.6	35
	VSP-C8×20E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	36
	VSP-C8×20-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	37
	VSP-C8×20-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	38
	VSP-C8×20-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
	VSP-C8×20-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	43
	VSP-C8×20-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C8×20-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50
	VSP-C8×30E*-4		30	4	62	29	20	11.2	6	7.0 to 12.6	35
	VSP-C8×30E*-6			6	63.3	29	20	11.9	6	7.0 to 12.6	36
Suction mark prevention	VSP-C8×30-10E*-4			4	68	35	20	11.2	10	3.3 to 10.0	38
	VSP-C8×30-10E*-6			6	69.3	35	20	11.9	10	3.3 to 10.0	39
	VSP-C8×30-15E*-4			4	78	40	25	11.2	15	3.3 to 10.4	42
	VSP-C8×30-15E*-6			6	79.3	40	25	11.9	15	3.3 to 10.4	43
	VSP-C8×30-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C8×30-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50
	VSP-C8×30-20E*-4			4	94	47	34	11.2	20	2.0 to 8.7	49
	VSP-C8×30-20E*-6			6	95.3	47	34	11.9	20	2.0 to 8.7	50

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C*-□E*-4C/6C



Unit: mm									
Model No.	Pad size		Bore size	B	L	Tube end	Stroke	Spring force (N)	Weight (g)
	X	Y	øD			C	S		
VSP-C2×4-20E*-4C	2	4	4	71	49	11.2	20	1.5 to 4.9	44
VSP-C2×4-20E*-6C			6	72.3		11.9			45
VSP-C2×4-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	49
VSP-C2×4-30E*-6C			6	85.3		11.9			50
VSP-C2×4-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	54
VSP-C2×4-40E*-6C			6	98.3		11.9			55
VSP-C2×4-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
VSP-C2×4-50E*-6C			6	111.3		11.9			61
VSP-C3.5×7-20E*-4C	3.5	7	4	71	49	11.2	20	1.5 to 4.9	44
VSP-C3.5×7-20E*-6C			6	72.3		11.9			45
VSP-C3.5×7-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	49
VSP-C3.5×7-30E*-6C			6	85.3		11.9			50
VSP-C3.5×7-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	54
VSP-C3.5×7-40E*-6C			6	98.3		11.9			55
VSP-C3.5×7-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
VSP-C3.5×7-50E*-6C			6	111.3		11.9			61
VSP-C4×10-20E*-4C	4	10	4	71	49	11.2	20	1.5 to 4.9	44
VSP-C4×10-20E*-6C			6	72.3		11.9			45
VSP-C4×10-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
VSP-C4×10-30E*-6C			6	85.3		11.9			51
VSP-C4×10-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
VSP-C4×10-40E*-6C			6	98.3		11.9			56
VSP-C4×10-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
VSP-C4×10-50E*-6C			6	111.3		11.9			61
VSP-C4×20-20E*-4C		20	4	71	49	11.2	20	1.5 to 4.9	45
VSP-C4×20-20E*-6C			6	72.3		11.9			46
VSP-C4×20-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
VSP-C4×20-30E*-6C			6	85.3		11.9			51
VSP-C4×20-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
VSP-C4×20-40E*-6C			6	98.3		11.9			56
VSP-C4×20-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	61
VSP-C4×20-50E*-6C			6	111.3		11.9			62
VSP-C4×30-20E*-4C		30	4	71	49	11.2	20	1.5 to 4.9	45
VSP-C4×30-20E*-6C			6	72.3		11.9			46
VSP-C4×30-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
VSP-C4×30-30E*-6C			6	85.3		11.9			51
VSP-C4×30-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
VSP-C4×30-40E*-6C			6	98.3		11.9			56
VSP-C4×30-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
VSP-C4×30-50E*-6C			6	111.3		11.9			61

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

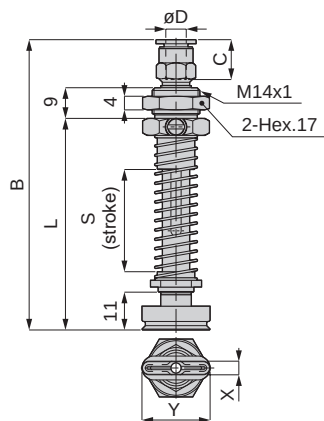
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C* - □E*-4C/6C

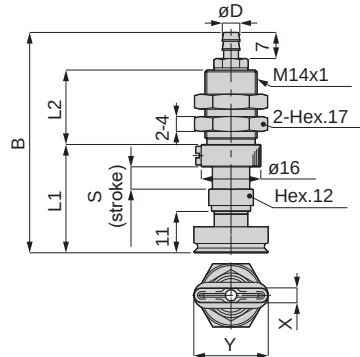


Unit: mm

	Model No.	Pad size		Bore size øD	B	L	Tube end C	Stroke S	Spring force (N)	Weight (g)
		X	Y							
General/Deep/ Compact	VSP-C5×10-20E*-4C	5	10	4	71	49	11.2	20	1.5 to 4.9	44
	VSP-C5×10-20E*-6C			6	72.3		11.9			45
	VSP-C5×10-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	49
	VSP-C5×10-30E*-6C			6	85.3		11.9			50
	VSP-C5×10-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	54
	VSP-C5×10-40E*-6C			6	98.3		11.9			55
	VSP-C5×10-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
	VSP-C5×10-50E*-6C			6	111.3		11.9			61
Sponge	VSP-C5×20-20E*-4C		20	4	71	49	11.2	20	1.5 to 4.9	44
	VSP-C5×20-20E*-6C			6	72.3		11.9			45
	VSP-C5×20-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C5×20-30E*-6C			6	85.3		11.9			51
Bellows	VSP-C5×20-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C5×20-40E*-6C			6	98.3		11.9			56
	VSP-C5×20-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
	VSP-C5×20-50E*-6C			6	111.3		11.9			61
Multi-stage bellows	VSP-C5×30-20E*-4C		30	4	71	49	11.2	20	1.5 to 4.9	45
	VSP-C5×30-20E*-6C			6	72.3		11.9			46
	VSP-C5×30-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C5×30-30E*-6C			6	85.3		11.9			51
	VSP-C5×30-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C5×30-40E*-6C			6	98.3		11.9			56
	VSP-C5×30-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	61
	VSP-C5×30-50E*-6C			6	111.3		11.9			62
Oval	VSP-C6×10-20E*-4C	6	10	4	71	49	11.2	20	1.5 to 4.9	44
	VSP-C6×10-20E*-6C			6	72.3		11.9			45
	VSP-C6×10-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	49
	VSP-C6×10-30E*-6C			6	85.3		11.9			50
	VSP-C6×10-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	54
	VSP-C6×10-40E*-6C			6	98.3		11.9			55
	VSP-C6×10-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
	VSP-C6×10-50E*-6C			6	111.3		11.9			61
Soft	VSP-C6×20-20E*-4C		20	4	71	49	11.2	20	1.5 to 4.9	44
	VSP-C6×20-20E*-6C			6	72.3		11.9			45
	VSP-C6×20-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C6×20-30E*-6C			6	85.3		11.9			51
	VSP-C6×20-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C6×20-40E*-6C			6	98.3		11.9			56
	VSP-C6×20-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
	VSP-C6×20-50E*-6C			6	111.3		11.9			61
Soft bellows	VSP-C6×30-20E*-4C		30	4	71	49	11.2	20	1.5 to 4.9	45
	VSP-C6×30-20E*-6C			6	72.3		11.9			46
	VSP-C6×30-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C6×30-30E*-6C			6	85.3		11.9			51
	VSP-C6×30-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C6×30-40E*-6C			6	98.3		11.9			56
	VSP-C6×30-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	61
	VSP-C6×30-50E*-6C			6	111.3		11.9			62
Anti-slip	VSP-C8×20-20E*-4C	8	20	4	71	49	11.2	20	1.5 to 4.9	44
	VSP-C8×20-20E*-6C			6	72.3		11.9			45
	VSP-C8×20-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C8×20-30E*-6C			6	85.3		11.9			51
	VSP-C8×20-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C8×20-40E*-6C			6	98.3		11.9			56
	VSP-C8×20-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
	VSP-C8×20-50E*-6C			6	111.3		11.9			61
Thin object	VSP-C8×30-20E*-4C		30	4	71	49	11.2	20	1.5 to 4.9	45
	VSP-C8×30-20E*-6C			6	72.3		11.9			46
	VSP-C8×30-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C8×30-30E*-6C			6	85.3		11.9			51
	VSP-C8×30-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C8×30-40E*-6C			6	98.3		11.9			56
	VSP-C8×30-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	61
	VSP-C8×30-50E*-6C			6	111.3		11.9			62
Flat	VSP-C8×20-20E*-4C		20	4	71	49	11.2	20	1.5 to 4.9	44
	VSP-C8×20-20E*-6C			6	72.3		11.9			45
	VSP-C8×20-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C8×20-30E*-6C			6	85.3		11.9			51
	VSP-C8×20-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C8×20-40E*-6C			6	98.3		11.9			56
	VSP-C8×20-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	60
	VSP-C8×20-50E*-6C			6	111.3		11.9			61
Suction mark prevention	VSP-C8×30-20E*-4C		30	4	71	49	11.2	20	1.5 to 4.9	45
	VSP-C8×30-20E*-6C			6	72.3		11.9			46
	VSP-C8×30-30E*-4C			4	84	62	11.2	30	1.1 to 4.8	50
	VSP-C8×30-30E*-6C			6	85.3		11.9			51
	VSP-C8×30-40E*-4C			4	97	75	11.2	40	1.0 to 4.5	55
	VSP-C8×30-40E*-6C			6	98.3		11.9			56
	VSP-C8×30-50E*-4C			4	110	88	11.2	50	0.9 to 4.5	61
	VSP-C8×30-50E*-6C			6	111.3		11.9			62

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

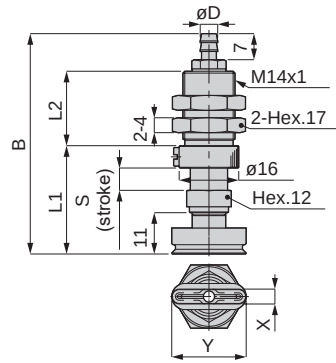
- VSP-C*E*-4T/6T
- VSP-C*-□E*-4T/6T



Unit: mm									
Model No.	Pad size		Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
	X	Y							
VSP-C2×4E*-4T	2	4	2.5	59.1	29	20	6	7.0 to 12.6	33
VSP-C2×4E*-6T			4						
VSP-C2×4-10E*-4T			2.5	65.1	35	10	3.3 to 10.0	36	
VSP-C2×4-10E*-6T			4						
VSP-C2×4-15E*-4T			2.5	75.1	40	25	15	3.3 to 10.4	40
VSP-C2×4-15E*-6T			4						
VSP-C2×4-20E*-4T			2.5	91.1	47	34	20	2.0 to 8.7	47
VSP-C2×4-20E*-6T			4						
VSP-C3.5×7E*-4T	3.5	7	2.5	59.1	29	20	6	7.0 to 12.6	33
VSP-C3.5×7E*-6T			4						
VSP-C3.5×7-10E*-4T			2.5	65.1	35	10	3.3 to 10.0	36	
VSP-C3.5×7-10E*-6T			4						
VSP-C3.5×7-15E*-4T			2.5	75.1	40	25	15	3.3 to 10.4	40
VSP-C3.5×7-15E*-6T			4						
VSP-C3.5×7-20E*-4T			2.5	91.1	47	34	20	2.0 to 8.7	47
VSP-C3.5×7-20E*-6T			4						
VSP-C4×10E*-4T	4	10	2.5	59.1	29	20	6	7.0 to 12.6	33
VSP-C4×10E*-6T			4						
VSP-C4×10-10E*-4T			2.5	65.1	35	10	3.3 to 10.0	36	
VSP-C4×10-10E*-6T			4						
VSP-C4×10-15E*-4T			2.5	75.1	40	25	15	3.3 to 10.4	40
VSP-C4×10-15E*-6T			4						
VSP-C4×10-20E*-4T			2.5	91.1	47	34	20	2.0 to 8.7	47
VSP-C4×10-20E*-6T			4						
VSP-C4×20E*-4T		20	2.5	59.1	29	20	6	7.0 to 12.6	34
VSP-C4×20E*-6T			4						
VSP-C4×20-10E*-4T			2.5	65.1	35	10	3.3 to 10.0	36	
VSP-C4×20-10E*-6T			4						
VSP-C4×20-15E*-4T			2.5	75.1	40	25	15	3.3 to 10.4	41
VSP-C4×20-15E*-6T			4						
VSP-C4×20-20E*-4T			2.5	91.1	47	34	20	2.0 to 8.7	48
VSP-C4×20-20E*-6T			4						
VSP-C4×30E*-4T		30	2.5	59.1	29	20	6	7.0 to 12.6	34
VSP-C4×30E*-6T			4						
VSP-C4×30-10E*-4T			2.5	65.1	35	10	3.3 to 10.0	37	
VSP-C4×30-10E*-6T			4						
VSP-C4×30-15E*-4T			2.5	75.1	40	25	15	3.3 to 10.4	41
VSP-C4×30-15E*-6T			4						
VSP-C4×30-20E*-4T			2.5	91.1	47	34	20	2.0 to 8.7	48
VSP-C4×30-20E*-6T			4						

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C*-4T/6T
- VSP-C*-□E*-4T/6T

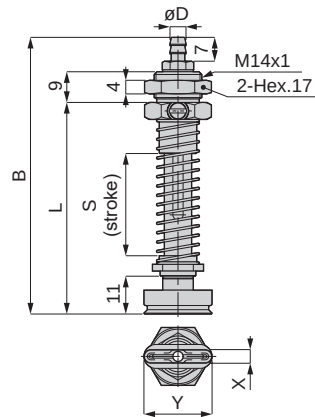


Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
		X	Y							
Suction pad	VSP-C5×10E*-4T	5	10	4	59.1	29	20	6	7.0 to 12.6	33
	VSP-C5×10E*-6T			6				10		
	VSP-C5×10-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	36
	VSP-C5×10-10E*-6T			6				15		
	VSP-C5×10-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	40
	VSP-C5×10-15E*-6T			6				20		
	VSP-C5×10-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	47
	VSP-C5×10-20E*-6T			6				6		
	VSP-C5×20E*-4T		20	4	59.1	29	20	6	7.0 to 12.6	34
	VSP-C5×20E*-6T			6				10		
General/Deep/ Compact	VSP-C5×20-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	36
	VSP-C5×20-10E*-6T			6				15		
	VSP-C5×20-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	41
	VSP-C5×20-15E*-6T			6				20		
	VSP-C5×20-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	48
	VSP-C5×20-20E*-6T			6				6		
Sponge	VSP-C5×30E*-4T		30	4	59.1	29	20	6	7.0 to 12.6	34
	VSP-C5×30E*-6T			6				10		
	VSP-C5×30-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	37
	VSP-C5×30-10E*-6T			6				15		
	VSP-C5×30-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	41
	VSP-C5×30-15E*-6T			6				20		
	VSP-C5×30-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	48
	VSP-C5×30-20E*-6T			6				6		
Bellows	VSP-C6×10E*-4T	6	10	4	59.1	29	20	6	7.0 to 12.6	33
	VSP-C6×10E*-6T			6				10		
	VSP-C6×10-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	36
	VSP-C6×10-10E*-6T			6				15		
	VSP-C6×10-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	40
	VSP-C6×10-15E*-6T			6				20		
	VSP-C6×10-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	47
	VSP-C6×10-20E*-6T			6				6		
	VSP-C6×20E*-4T		20	4	59.1	29	20	6	7.0 to 12.6	34
	VSP-C6×20E*-6T			6				10		
Soft bellows	VSP-C6×20-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	36
	VSP-C6×20-10E*-6T			6				15		
	VSP-C6×20-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	41
	VSP-C6×20-15E*-6T			6				20		
	VSP-C6×20-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	48
	VSP-C6×20-20E*-6T			6				6		
Anti-slip	VSP-C6×30E*-4T		30	4	59.1	29	20	6	7.0 to 12.6	34
	VSP-C6×30E*-6T			6				10		
	VSP-C6×30-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	37
	VSP-C6×30-10E*-6T			6				15		
	VSP-C6×30-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	41
	VSP-C6×30-15E*-6T			6				20		
	VSP-C6×30-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	48
	VSP-C6×30-20E*-6T			6				6		
Thin object	VSP-C8×20E*-4T	8	20	4	59.1	29	20	6	7.0 to 12.6	34
	VSP-C8×20E*-6T			6				10		
	VSP-C8×20-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	36
	VSP-C8×20-10E*-6T			6				15		
	VSP-C8×20-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	41
	VSP-C8×20-15E*-6T			6				20		
	VSP-C8×20-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	48
	VSP-C8×20-20E*-6T			6				6		
Suction mark prevention	VSP-C8×30E*-4T		30	4	59.1	29	20	6	7.0 to 12.6	34
	VSP-C8×30E*-6T			6				10		
	VSP-C8×30-10E*-4T			4	65.1	35	25	10	3.3 to 10.0	37
	VSP-C8×30-10E*-6T			6				15		
	VSP-C8×30-15E*-4T			4	75.1	40	34	15	3.3 to 10.4	41
	VSP-C8×30-15E*-6T			6				20		
	VSP-C8×30-20E*-4T			4	91.1	47	20	20	2.0 to 8.7	48
	VSP-C8×30-20E*-6T			6				6		

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

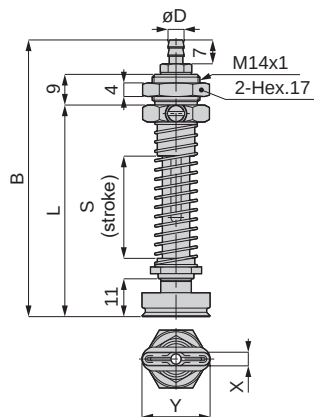
●VSP-C*-E*-4TC/6TC



Model No.	Pad size		Bore size	B	L	Stroke S	Spring force (N)	Weight (g)	Unit: mm
	X	Y	ØD						
VSP-C2×4-20E*-4TC	2	4	4	68.1	49	20	1.5 to 4.9	45	Suction pad
VSP-C2×4-20E*-6TC			6						
VSP-C2×4-30E*-4TC			4	81.1	62	30	1.1 to 4.8	50	Sponge
VSP-C2×4-30E*-6TC			6						
VSP-C2×4-40E*-4TC			4	94.1	75	40	1.0 to 4.5	55	Bellows
VSP-C2×4-40E*-6TC			6						
VSP-C2×4-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61	Multi-stage bellows
VSP-C2×4-50E*-6TC			6						
VSP-C3.5×7-20E*-4TC	3.5	7	4	68.1	49	20	1.5 to 4.9	45	Oval
VSP-C3.5×7-20E*-6TC			6						
VSP-C3.5×7-30E*-4TC			4	81.1	62	30	1.1 to 4.8	50	Soft
VSP-C3.5×7-30E*-6TC			6						
VSP-C3.5×7-40E*-4TC			4	94.1	75	40	1.0 to 4.5	55	Soft bellows
VSP-C3.5×7-40E*-6TC			6						
VSP-C3.5×7-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61	Anti-slip
VSP-C3.5×7-50E*-6TC			6						
VSP-C4×10-20E*-4TC	4	10	4	68.1	49	20	1.5 to 4.9	45	Thin object
VSP-C4×10-20E*-6TC			6						
VSP-C4×10-30E*-4TC			4	81.1	62	30	1.1 to 4.8	50	Flat
VSP-C4×10-30E*-6TC			6						
VSP-C4×10-40E*-4TC			4	94.1	75	40	1.0 to 4.5	55	Suction mark prevention
VSP-C4×10-40E*-6TC			6						
VSP-C4×10-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61	
VSP-C4×10-50E*-6TC			6						
VSP-C4×20-20E*-4TC		20	4	68.1	49	20	1.5 to 4.9	45	
VSP-C4×20-20E*-6TC			6						
VSP-C4×20-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51	
VSP-C4×20-30E*-6TC			6						
VSP-C4×20-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56	
VSP-C4×20-40E*-6TC			6						
VSP-C4×20-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61	
VSP-C4×20-50E*-6TC			6						
VSP-C4×30-20E*-4TC		30	4	68.1	49	20	1.5 to 4.9	46	
VSP-C4×30-20E*-6TC			6						
VSP-C4×30-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51	
VSP-C4×30-30E*-6TC			6						
VSP-C4×30-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56	
VSP-C4×30-40E*-6TC			6						
VSP-C4×30-50E*-4TC			4	107.1	88	50	0.9 to 4.5	62	
VSP-C4×30-50E*-6TC			6						

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C*-□E*-4TC/6TC

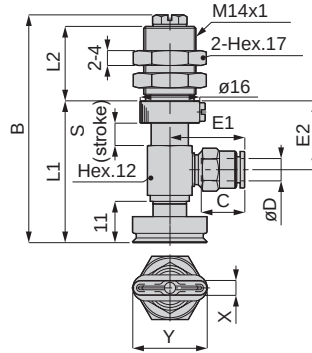


Unit: mm

	Model No.	Pad size		Bore size øD	B	L	Stroke S	Spring force (N)	Weight (g)
		X	Y						
General/Deep/ Compact	VSP-C5×10-20E*-4TC	5	10	4	68.1	49	20	1.5 to 4.9	45
	VSP-C5×10-20E*-6TC			6					
	VSP-C5×10-30E*-4TC			4	81.1	62	30	1.1 to 4.8	50
	VSP-C5×10-30E*-6TC			6					
	VSP-C5×10-40E*-4TC			4	94.1	75	40	1.0 to 4.5	55
	VSP-C5×10-40E*-6TC			6					
	VSP-C5×10-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61
	VSP-C5×10-50E*-6TC			6					
Sponge	VSP-C5×20-20E*-4TC		20	4	68.1	49	20	1.5 to 4.9	45
	VSP-C5×20-20E*-6TC			6					
	VSP-C5×20-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51
	VSP-C5×20-30E*-6TC			6					
Bellows	VSP-C5×20-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56
	VSP-C5×20-40E*-6TC			6					
	VSP-C5×20-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61
	VSP-C5×20-50E*-6TC			6					
Multi-stage bellows	VSP-C5×30-20E*-4TC		30	4	68.1	49	20	1.5 to 4.9	46
	VSP-C5×30-20E*-6TC			6					
	VSP-C5×30-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51
	VSP-C5×30-30E*-6TC			6					
	VSP-C5×30-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56
	VSP-C5×30-40E*-6TC			6					
Oval	VSP-C5×30-50E*-4TC			4	107.1	88	50	0.9 to 4.5	62
	VSP-C5×30-50E*-6TC			6					
Soft	VSP-C6×10-20E*-4TC	6	10	4	68.1	49	20	1.5 to 4.9	45
	VSP-C6×10-20E*-6TC			6					
	VSP-C6×10-30E*-4TC			4	81.1	62	30	1.1 to 4.8	50
	VSP-C6×10-30E*-6TC			6					
	VSP-C6×10-40E*-4TC			4	94.1	75	40	1.0 to 4.5	55
	VSP-C6×10-40E*-6TC			6					
	VSP-C6×10-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61
	VSP-C6×10-50E*-6TC			6					
Soft bellows	VSP-C6×20-20E*-4TC		20	4	68.1	49	20	1.5 to 4.9	45
	VSP-C6×20-20E*-6TC			6					
	VSP-C6×20-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51
	VSP-C6×20-30E*-6TC			6					
	VSP-C6×20-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56
	VSP-C6×20-40E*-6TC			6					
Anti-slip	VSP-C6×20-50E*-4TC		30	4	107.1	88	50	0.9 to 4.5	61
	VSP-C6×20-50E*-6TC			6					
	VSP-C6×30-20E*-4TC			4	68.1	49	20	1.5 to 4.9	46
	VSP-C6×30-20E*-6TC			6					
	VSP-C6×30-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51
	VSP-C6×30-30E*-6TC			6					
Thin object	VSP-C6×30-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56
	VSP-C6×30-40E*-6TC			6					
	VSP-C6×30-50E*-4TC			4	107.1	88	50	0.9 to 4.5	62
	VSP-C6×30-50E*-6TC			6					
Flat	VSP-C8×20-20E*-4TC	8	20	4	68.1	49	20	1.5 to 4.9	45
	VSP-C8×20-20E*-6TC			6					
	VSP-C8×20-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51
	VSP-C8×20-30E*-6TC			6					
	VSP-C8×20-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56
	VSP-C8×20-40E*-6TC			6					
Suction mark prevention	VSP-C8×20-50E*-4TC			4	107.1	88	50	0.9 to 4.5	61
	VSP-C8×20-50E*-6TC			6					
	VSP-C8×30-20E*-4TC		30	4	68.1	49	20	1.5 to 4.9	46
	VSP-C8×30-20E*-6TC			6					
	VSP-C8×30-30E*-4TC			4	81.1	62	30	1.1 to 4.8	51
	VSP-C8×30-30E*-6TC			6					
	VSP-C8×30-40E*-4TC			4	94.1	75	40	1.0 to 4.5	56
	VSP-C8×30-40E*-6TC			6					
	VSP-C8×30-50E*-4TC			4	107.1	88	50	0.9 to 4.5	62
	VSP-C8×30-50E*-6TC			6					

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

- VSP-D*E*-4/6
- VSP-D*-□E*-4/6



Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
	X	Y										
VSP-D2×4E*-4	2	4	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to 12.6	46
VSP-D2×4E*-6			6				11.9	20.1				47
VSP-D2×4-10E*-4			4	67.1	44		11.2	18.8	24.5	10	3.3 to 10.0	50
VSP-D2×4-10E*-6			6				11.9	20.1				51
VSP-D2×4-15E*-4			4	77.1	49	25	11.2	18.8	29.5	15	3.3 to 10.4	56
VSP-D2×4-15E*-6			6				11.9	20.1				57
VSP-D2×4-20E*-4			4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66
VSP-D2×4-20E*-6			6				11.9	20.1				67
VSP-D3.5×7E*-4	3.5	7	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to 12.6	46
VSP-D3.5×7E*-6			6				11.9	20.1				47
VSP-D3.5×7-10E*-4			4	67.1	44		11.2	18.8	24.5	10	3.3 to 10.0	50
VSP-D3.5×7-10E*-6			6				11.9	20.1				51
VSP-D3.5×7-15E*-4			4	77.1	49	25	11.2	18.8	29.5	15	3.3 to 10.4	56
VSP-D3.5×7-15E*-6			6				11.9	20.1				57
VSP-D3.5×7-20E*-4			4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66
VSP-D3.5×7-20E*-6			6				11.9	20.1				67
VSP-D4×10E*-4	4	10	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to 12.6	46
VSP-D4×10E*-6			6				11.9	20.1				47
VSP-D4×10-10E*-4			4	67.1	44		11.2	18.8	24.5	10	3.3 to 10.0	50
VSP-D4×10-10E*-6			6				11.9	20.1				51
VSP-D4×10-15E*-4			4	77.1	49	25	11.2	18.8	29.5	15	3.3 to 10.4	56
VSP-D4×10-15E*-6			6				11.9	20.1				57
VSP-D4×10-20E*-4			4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66
VSP-D4×10-20E*-6			6				11.9	20.1				67
VSP-D4×20E*-4		20	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to 12.6	46
VSP-D4×20E*-6			6				11.9	20.1				47
VSP-D4×20-10E*-4			4	67.1	44		11.2	18.8	24.5	10	3.3 to 10.0	50
VSP-D4×20-10E*-6			6				11.9	20.1				51
VSP-D4×20-15E*-4			4	77.1	49	25	11.2	18.8	29.5	15	3.3 to 10.4	56
VSP-D4×20-15E*-6			6				11.9	20.1				57
VSP-D4×20-20E*-4			4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66
VSP-D4×20-20E*-6			6				11.9	20.1				67
VSP-D4×30E*-4		30	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to 12.6	47
VSP-D4×30E*-6			6				11.9	20.1				48
VSP-D4×30-10E*-4			4	67.1	44		11.2	18.8	24.5	10	3.3 to 10.0	51
VSP-D4×30-10E*-6			6				11.9	20.1				52
VSP-D4×30-15E*-4			4	77.1	49	25	11.2	18.8	29.5	15	3.3 to 10.4	57
VSP-D4×30-15E*-6			6				11.9	20.1				58
VSP-D4×30-20E*-4			4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	67
VSP-D4×30-20E*-6			6				11.9	20.1				68

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

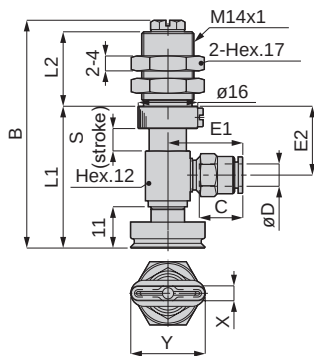
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

- VSP-D*E*-4/6
- VSP-D*-□E*-4/6



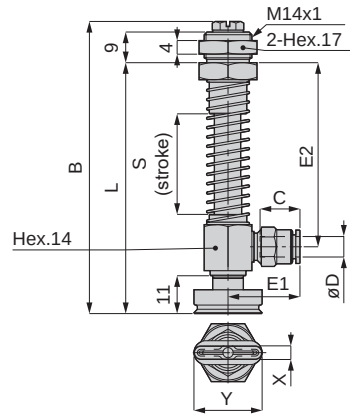
Unit: mm

Suction pad	Model No.	Pad size		Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)	
		X	Y											
General/Deep/ Compact	VSP-D5×10E*-4	5	10	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	46	
	VSP-D5×10E*-6			6				11.9	20.1			12.6	47	
	VSP-D5×10-10E*-4			4	67.1	44	20	11.2	18.8	24.5	10	3.3 to	50	
	VSP-D5×10-10E*-6			6				11.9	20.1			10.0	51	
	VSP-D5×10-15E*-4			4	77.1	49	25	11.2	18.8	29.5	15	3.3 to	56	
	VSP-D5×10-15E*-6			6				11.9	20.1			10.4	57	
	VSP-D5×10-20E*-4		4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66		
	VSP-D5×10-20E*-6		6				11.9	20.1			67			
	VSP-D5×20E*-4		20	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	46	
	VSP-D5×20E*-6			6				11.9	20.1			12.6	47	
VSP-D5×20-10E*-4	4			67.1	44	20	11.2	18.8	24.5	10	3.3 to	50		
VSP-D5×20-10E*-6	6						11.9	20.1			10.0	51		
VSP-D5×20-15E*-4	4			77.1	49	25	11.2	18.8	29.5	15	3.3 to	56		
VSP-D5×20-15E*-6	6						11.9	20.1			10.4	57		
Sponge	VSP-D5×20-20E*-4		4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66		
	VSP-D5×20-20E*-6		6				11.9	20.1			67			
Bellows	VSP-D5×30E*-4		30	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	47	
	VSP-D5×30E*-6							6	11.9			20.1	12.6	48
VSP-D5×30-10E*-4	4	67.1		44	20	11.2	18.8	24.5	10	3.3 to	51			
VSP-D5×30-10E*-6	6					11.9	20.1			10.0	52			
Multi-stage bellows	VSP-D5×30-15E*-4	4		77.1	49	25	11.2	18.8	29.5	15	3.3 to	57		
	VSP-D5×30-15E*-6	6					11.9	20.1			10.4	58		
	VSP-D5×30-20E*-4	4		93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	67		
	VSP-D5×30-20E*-6	6					11.9	20.1			68			
Oval	VSP-D6×10E*-4	10		4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	46	
	VSP-D6×10E*-6			6				11.9	20.1			12.6	47	
	VSP-D6×10-10E*-4			4	67.1	44	20	11.2	18.8	24.5	10	3.3 to	50	
	VSP-D6×10-10E*-6			6				11.9	20.1			10.0	51	
Soft	VSP-D6×10-15E*-4		4	77.1	49	25	11.2	18.8	29.5	15	3.3 to	56		
	VSP-D6×10-15E*-6		6				11.9	20.1			10.4	57		
	VSP-D6×10-20E*-4		4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66		
	VSP-D6×10-20E*-6		6				11.9	20.1			67			
Soft bellows	VSP-D6×20E*-4		20	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	46	
	VSP-D6×20E*-6			6				11.9	20.1			12.6	47	
	VSP-D6×20-10E*-4			4	67.1	44	20	11.2	18.8	24.5	10	3.3 to	50	
	VSP-D6×20-10E*-6			6				11.9	20.1			10.0	51	
Anti-slip	VSP-D6×20-15E*-4	4		77.1	49	25	11.2	18.8	29.5	15	3.3 to	56		
	VSP-D6×20-15E*-6	6					11.9	20.1			10.4	57		
	VSP-D6×20-20E*-4	4		93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66		
	VSP-D6×20-20E*-6	6					11.9	20.1			67			
Thin object	VSP-D6×30E*-4	30		4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	47	
	VSP-D6×30E*-6			6				11.9	20.1			12.6	48	
	VSP-D6×30-10E*-4			4	67.1	44	20	11.2	18.8	24.5	10	3.3 to	51	
	VSP-D6×30-10E*-6			6				11.9	20.1			10.0	52	
Suction mark prevention	VSP-D6×30-15E*-4		4	77.1	49	25	11.2	18.8	29.5	15	3.3 to	57		
	VSP-D6×30-15E*-6		6				11.9	20.1			10.4	58		
	VSP-D6×30-20E*-4		4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	67		
	VSP-D6×30-20E*-6		6				11.9	20.1			68			
Flat	VSP-D8×20E*-4		8	20	4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	46
	VSP-D8×20E*-6				6				11.9	20.1			12.6	47
	VSP-D8×20-10E*-4				4	67.1	44	20	11.2	18.8	24.5	10	3.3 to	50
	VSP-D8×20-10E*-6				6				11.9	20.1			10.0	51
Suction mark prevention	VSP-D8×20-15E*-4	4			77.1	49	25	11.2	18.8	29.5	15	3.3 to	56	
	VSP-D8×20-15E*-6	6						11.9	20.1			10.4	57	
Suction mark prevention	VSP-D8×20-20E*-4	4		93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	66		
	VSP-D8×20-20E*-6	6					11.9	20.1			67			
	VSP-D8×30E*-4	30		4	61.1	38	20	11.2	18.8	18.5	6	7.0 to	47	
	VSP-D8×30E*-6			6				11.9	20.1			12.6	48	
	VSP-D8×30-10E*-4			4	67.1	44	20	11.2	18.8	24.5	10	3.3 to	51	
	VSP-D8×30-10E*-6			6				11.9	20.1			10.0	52	
	VSP-D8×30-15E*-4		4	77.1	49	25	11.2	18.8	29.5	15	3.3 to	57		
	VSP-D8×30-15E*-6		6				11.9	20.1			10.4	58		
	Suction mark prevention	VSP-D8×30-20E*-4	4	93.1	56	34	11.2	18.8	36.5	20	2.0 to 8.7	67		
		VSP-D8×30-20E*-6	6				11.9	20.1			68			

Unit: mm

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D*□E*-4C/6C



Unit: mm											
Model No.	Pad size		Bore size øD	B	L	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
	X	Y									
VSP-D2×4-20E*-4C	2	4	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	64
VSP-D2×4-20E*-6C			6			11.9	21.1				65
VSP-D2×4-30E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	71
VSP-D2×4-30E*-6C			6			11.9	21.1				72
VSP-D2×4-40E*-4C			4	98.6	86.5	11.2	19.8	67	40	1.0 to 4.5	78
VSP-D2×4-40E*-6C			6			11.9	21.1				79
VSP-D2×4-50E*-4C			4	111.6	99.5	11.2	19.8	80	50	0.9 to 4.5	84
VSP-D2×4-50E*-6C			6			11.9	21.1				85
VSP-D3.5×7-20E*-4C	3.5	7	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	64
VSP-D3.5×7-20E*-6C			6			11.9	21.1				65
VSP-D3.5×7-30E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	71
VSP-D3.5×7-30E*-6C			6			11.9	21.1				72
VSP-D3.5×7-40E*-4C			4	98.6	86.5	11.2	19.8	67	40	1.0 to 4.5	78
VSP-D3.5×7-40E*-6C			6			11.9	21.1				79
VSP-D3.5×7-50E*-4C			4	111.6	99.5	11.2	19.8	80	50	0.9 to 4.5	84
VSP-D3.5×7-50E*-6C			6			11.9	21.1				85
VSP-D4×10-20E*-4C	4	10	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	64
VSP-D4×10-20E*-6C			6			11.9	21.1				65
VSP-D4×10-30E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	71
VSP-D4×10-30E*-6C			6			11.9	21.1				72
VSP-D4×10-40E*-4C			4	98.6	86.5	11.2	19.8	67	40	1.0 to 4.5	78
VSP-D4×10-40E*-6C			6			11.9	21.1				79
VSP-D4×10-50E*-4C			4	111.6	99.5	11.2	19.8	80	50	0.9 to 4.5	84
VSP-D4×10-50E*-6C			6			11.9	21.1				85
VSP-D4×20-20E*-4C		20	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
VSP-D4×20-20E*-6C			6			11.9	21.1				66
VSP-D4×20-30E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	71
VSP-D4×20-30E*-6C			6			11.9	21.1				72
VSP-D4×20-40E*-4C			4	98.6	86.5	11.2	19.8	67	40	1.0 to 4.5	78
VSP-D4×20-40E*-6C			6			11.9	21.1				79
VSP-D4×20-50E*-4C			4	111.6	99.5	11.2	19.8	80	50	0.9 to 4.5	84
VSP-D4×20-50E*-6C			6			11.9	21.1				85
VSP-D4×30-20E*-4C		30	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	64
VSP-D4×30-20E*-6C			6			11.9	21.1				66
VSP-D4×30-30E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	72
VSP-D4×30-30E*-6C			6			11.9	21.1				73
VSP-D4×30-40E*-4C			4	98.6	86.5	11.2	19.8	67	40	1.0 to 4.5	79
VSP-D4×30-40E*-6C			6			11.9	21.1				80
VSP-D4×30-50E*-4C			4	111.6	99.5	11.2	19.8	80	50	0.9 to 4.5	85
VSP-D4×30-50E*-6C			6			11.9	21.1				86

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

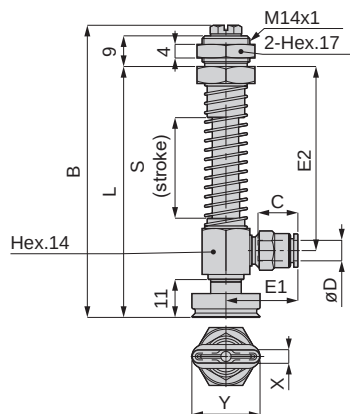
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D*E*-4C/6C

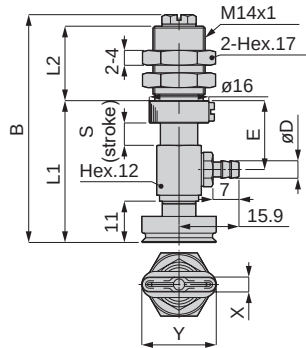


Unit: mm

	Model No.	Pad size		Bore size øD	B	L	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
		X	Y									
General/Deep/ Compact	VSP-D5×10-20E*-4C	5	10	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	64
	VSP-D5×10-20E*-6C			6			11.9	21.1				65
	VSP-D5×10-30E*-4C			4			11.2	19.8				71
	VSP-D5×10-30E*-6C			6			11.9	21.1				72
	VSP-D5×10-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	78
	VSP-D5×10-40E*-6C			6			11.9	21.1				79
	VSP-D5×10-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D5×10-50E*-6C			6			11.9	21.1				85
Sponge	VSP-D5×20-20E*-4C	5	20	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D5×20-20E*-6C			6			11.9	21.1				66
	VSP-D5×20-30E*-4C			4			11.2	19.8				71
	VSP-D5×20-30E*-6C			6			11.9	21.1				72
	VSP-D5×20-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	78
	VSP-D5×20-40E*-6C			6			11.9	21.1				79
	VSP-D5×20-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D5×20-50E*-6C			6			11.9	21.1				85
Bellows	VSP-D5×30-20E*-4C	5	30	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D5×30-20E*-6C			6			11.9	21.1				66
	VSP-D5×30-30E*-4C			4			11.2	19.8				72
	VSP-D5×30-30E*-6C			6			11.9	21.1				73
	VSP-D5×30-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	79
	VSP-D5×30-40E*-6C			6			11.9	21.1				80
	VSP-D5×30-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	85
	VSP-D5×30-50E*-6C			6			11.9	21.1				86
Multi-stage bellows	VSP-D6×10-20E*-4C	6	10	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	64
	VSP-D6×10-20E*-6C			6			11.9	21.1				65
	VSP-D6×10-30E*-4C			4			11.2	19.8				71
	VSP-D6×10-30E*-6C			6			11.9	21.1				72
	VSP-D6×10-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	78
	VSP-D6×10-40E*-6C			6			11.9	21.1				79
	VSP-D6×10-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D6×10-50E*-6C			6			11.9	21.1				85
Soft	VSP-D6×20-20E*-4C	6	20	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D6×20-20E*-6C			6			11.9	21.1				66
	VSP-D6×20-30E*-4C			4			11.2	19.8				71
	VSP-D6×20-30E*-6C			6			11.9	21.1				72
	VSP-D6×20-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	78
	VSP-D6×20-40E*-6C			6			11.9	21.1				79
	VSP-D6×20-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D6×20-50E*-6C			6			11.9	21.1				85
Soft bellows	VSP-D6×30-20E*-4C	6	30	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D6×30-20E*-6C			6			11.9	21.1				66
	VSP-D6×30-30E*-4C			4			11.2	19.8				72
	VSP-D6×30-30E*-6C			6			11.9	21.1				73
	VSP-D6×30-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	79
	VSP-D6×30-40E*-6C			6			11.9	21.1				80
	VSP-D6×30-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	85
	VSP-D6×30-50E*-6C			6			11.9	21.1				86
Anti-slip	VSP-D8×20-20E*-4C	8	20	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D8×20-20E*-6C			6			11.9	21.1				66
	VSP-D8×20-30E*-4C			4			11.2	19.8				71
	VSP-D8×20-30E*-6C			6			11.9	21.1				72
	VSP-D8×20-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	78
	VSP-D8×20-40E*-6C			6			11.9	21.1				79
	VSP-D8×20-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D8×20-50E*-6C			6			11.9	21.1				85
Thin object	VSP-D8×30-20E*-4C	8	30	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D8×30-20E*-6C			6			11.9	21.1				66
	VSP-D8×30-30E*-4C			4			11.2	19.8				72
	VSP-D8×30-30E*-6C			6			11.9	21.1				73
	VSP-D8×30-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	79
	VSP-D8×30-40E*-6C			6			11.9	21.1				80
	VSP-D8×30-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	85
	VSP-D8×30-50E*-6C			6			11.9	21.1				86
Flat	VSP-D8×20-20E*-4C	8	20	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D8×20-20E*-6C			6			11.9	21.1				66
	VSP-D8×20-30E*-4C			4			11.2	19.8				71
	VSP-D8×20-30E*-6C			6			11.9	21.1				72
	VSP-D8×20-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	78
	VSP-D8×20-40E*-6C			6			11.9	21.1				79
	VSP-D8×20-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D8×20-50E*-6C			6			11.9	21.1				85
Suction mark prevention	VSP-D8×30-20E*-4C	8	30	4	72.6	60.5	11.2	19.8	41	20	1.5 to 4.9	65
	VSP-D8×30-20E*-6C			6			11.9	21.1				66
	VSP-D8×30-30E*-4C			4			11.2	19.8				72
	VSP-D8×30-30E*-6C			6			11.9	21.1				73
	VSP-D8×30-40E*-4C			4	85.6	73.5	11.2	19.8	54	30	1.1 to 4.8	79
	VSP-D8×30-40E*-6C			6			11.9	21.1				80
	VSP-D8×30-50E*-4C			4			11.2	19.8	67	40	1.0 to 4.5	85
	VSP-D8×30-50E*-6C			6			11.9	21.1				86

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

- VSP-D*E*-4T/6T
- VSP-D*-□E*-4T/6T

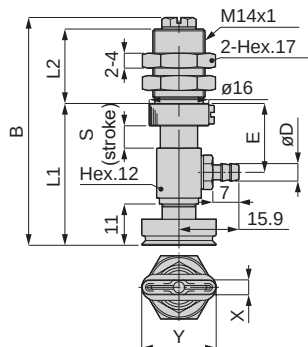


Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
	X	Y								
VSP-D2×4E*-4T	2	4	4	61.1	38	20	18.5	6	7.0 to 12.6	47
VSP-D2×4E*-6T			6							
VSP-D2×4-10E*-4T			4	67.1	44	24.5	10	3.3 to 10.0	51	
VSP-D2×4-10E*-6T			6							
VSP-D2×4-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	57
VSP-D2×4-15E*-6T			6							
VSP-D2×4-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	67
VSP-D2×4-20E*-6T			6							
VSP-D3.5×7E*-4T	3.5	7	4	61.1	38	20	18.5	6	7.0 to 12.6	47
VSP-D3.5×7E*-6T			6							
VSP-D3.5×7-10E*-4T			4	67.1	44	24.5	10	3.3 to 10.0	51	
VSP-D3.5×7-10E*-6T			6							
VSP-D3.5×7-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	57
VSP-D3.5×7-15E*-6T			6							
VSP-D3.5×7-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	67
VSP-D3.5×7-20E*-6T			6							
VSP-D4×10E*-4T	4	10	4	61.1	38	20	18.5	6	7.0 to 12.6	47
VSP-D4×10E*-6T			6							
VSP-D4×10-10E*-4T			4	67.1	44	24.5	10	3.3 to 10.0	51	
VSP-D4×10-10E*-6T			6							
VSP-D4×10-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	57
VSP-D4×10-15E*-6T			6							
VSP-D4×10-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	67
VSP-D4×10-20E*-6T			6							
VSP-D4×20E*-4T		20	4	61.1	38	20	18.5	6	7.0 to 12.6	47
VSP-D4×20E*-6T			6							
VSP-D4×20-10E*-4T			4	67.1	44	24.5	10	3.3 to 10.0	51	
VSP-D4×20-10E*-6T			6							
VSP-D4×20-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	57
VSP-D4×20-15E*-6T			6							
VSP-D4×20-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	67
VSP-D4×20-20E*-6T			6							
VSP-D4×30E*-4T		30	4	61.1	38	20	18.5	6	7.0 to 12.6	48
VSP-D4×30E*-6T			6							
VSP-D4×30-10E*-4T			4	67.1	44	24.5	10	3.3 to 10.0	52	
VSP-D4×30-10E*-6T			6							
VSP-D4×30-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	58
VSP-D4×30-15E*-6T			6							
VSP-D4×30-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	68
VSP-D4×30-20E*-6T			6							

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

- VSP-D*E*-4T/6T
- VSP-D *-□E*-4T/6T

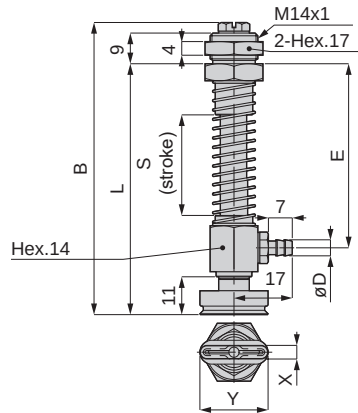


Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)	
	X	Y									
VSP-D5×10E*-4T	5	10	4	61.1	38	20	18.5	6	7.0 to 12.6	45	
VSP-D5×10E*-6T			6								
VSP-D5×10-10E*-4T			4	67.1	44	20	24.5	10	3.3 to 10.0	49	
VSP-D5×10-10E*-6T			6								
VSP-D5×10-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	55	
VSP-D5×10-15E*-6T			6								
VSP-D5×10-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	65	
VSP-D5×10-20E*-6T			6								
VSP-D5×20E*-4T		20	4	61.1	38	20	18.5	6	7.0 to 12.6	45	
VSP-D5×20E*-6T			6								
VSP-D5×20-10E*-4T			4	67.1	44	20	24.5	10	3.3 to 10.0	49	
VSP-D5×20-10E*-6T			6								
VSP-D5×20-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	55	
VSP-D5×20-15E*-6T			6								
VSP-D5×20-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	65	
VSP-D5×20-20E*-6T			6								
VSP-D5×30E*-4T		30	4	61.1	38	20	18.5	6	7.0 to 12.6	46	
VSP-D5×30E*-6T			6								
VSP-D5×30-10E*-4T			4	67.1	44	20	24.5	10	3.3 to 10.0	50	
VSP-D5×30-10E*-6T			6								
VSP-D5×30-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	56	
VSP-D5×30-15E*-6T			6								
VSP-D5×30-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	66	
VSP-D5×30-20E*-6T			6								
VSP-D6×10E*-4T		6	10	4	61.1	38	20	18.5	6	7.0 to 12.6	45
VSP-D6×10E*-6T				6							
VSP-D6×10-10E*-4T				4	67.1	44	20	24.5	10	3.3 to 10.0	49
VSP-D6×10-10E*-6T				6							
VSP-D6×10-15E*-4T	4			77.1	49	25	29.5	15	3.3 to 10.4	55	
VSP-D6×10-15E*-6T	6										
VSP-D6×10-20E*-4T	4			93.1	56	34	36.5	20	2.0 to 8.7	65	
VSP-D6×10-20E*-6T	6										
VSP-D6×20E*-4T	20		4	61.1	38	20	18.5	6	7.0 to 12.6	45	
VSP-D6×20E*-6T			6								
VSP-D6×20-10E*-4T			4	67.1	44	20	24.5	10	3.3 to 10.0	49	
VSP-D6×20-10E*-6T			6								
VSP-D6×20-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	55	
VSP-D6×20-15E*-6T			6								
VSP-D6×20-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	65	
VSP-D6×20-20E*-6T			6								
VSP-D6×30E*-4T	30		4	61.1	38	20	18.5	6	7.0 to 12.6	46	
VSP-D6×30E*-6T			6								
VSP-D6×30-10E*-4T			4	67.1	44	20	24.5	10	3.3 to 10.0	50	
VSP-D6×30-10E*-6T			6								
VSP-D6×30-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	56	
VSP-D6×30-15E*-6T			6								
VSP-D6×30-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	66	
VSP-D6×30-20E*-6T			6								
VSP-D8×20E*-4T	8		20	4	61.1	38	20	18.5	6	7.0 to 12.6	45
VSP-D8×20E*-6T				6							
VSP-D8×20-10E*-4T				4	67.1	44	20	24.5	10	3.3 to 10.0	49
VSP-D8×20-10E*-6T				6							
VSP-D8×20-15E*-4T		4		77.1	49	25	29.5	15	3.3 to 10.4	55	
VSP-D8×20-15E*-6T		6									
VSP-D8×20-20E*-4T		4		93.1	56	34	36.5	20	2.0 to 8.7	65	
VSP-D8×20-20E*-6T		6									
VSP-D8×30E*-4T		30	4	61.1	38	20	18.5	6	7.0 to 12.6	46	
VSP-D8×30E*-6T			6								
VSP-D8×30-10E*-4T			4	67.1	44	20	24.5	10	3.3 to 10.0	50	
VSP-D8×30-10E*-6T			6								
VSP-D8×30-15E*-4T			4	77.1	49	25	29.5	15	3.3 to 10.4	56	
VSP-D8×30-15E*-6T			6								
VSP-D8×30-20E*-4T			4	93.1	56	34	36.5	20	2.0 to 8.7	66	
VSP-D8×30-20E*-6T			6								

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

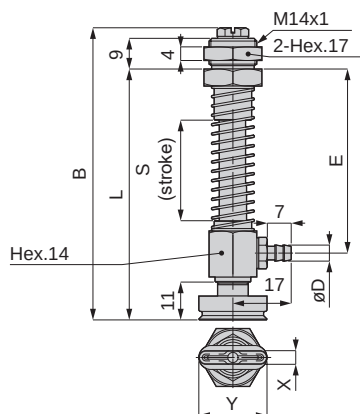
●VSP-D*-□E*-4TC/6TC



Unit: mm									
Model No.	Pad size		Bore size øD	B	L	E	Stroke S	Spring force (N)	Weight (g)
	X	Y							
VSP-D2×4-20E*-4TC	2	4	4	72.6	60.5	41	20	1.5 to 4.9	63
VSP-D2×4-20E*-6TC			6						
VSP-D2×4-30E*-4TC			4	85.6	73.5	54	30	1.1 to 4.8	70
VSP-D2×4-30E*-6TC			6						
VSP-D2×4-40E*-4TC			4	98.6	86.5	67	40	1.0 to 4.5	77
VSP-D2×4-40E*-6TC			6						
VSP-D2×4-50E*-4TC			4	111.6	99.5	80	50	0.9 to 4.5	83
VSP-D2×4-50E*-6TC			6						
VSP-D3.5×7-20E*-4TC	3.5	7	4	72.6	60.5	41	20	1.5 to 4.9	63
VSP-D3.5×7-20E*-6TC			6						
VSP-D3.5×7-30E*-4TC			4	85.6	73.5	54	30	1.1 to 4.8	70
VSP-D3.5×7-30E*-6TC			6						
VSP-D3.5×7-40E*-4TC			4	98.6	86.5	67	40	1.0 to 4.5	77
VSP-D3.5×7-40E*-6TC			6						
VSP-D3.5×7-50E*-4TC			4	111.6	99.5	80	50	0.9 to 4.5	83
VSP-D3.5×7-50E*-6TC			6						
VSP-D4×10-20E*-4TC	4	10	4	72.6	60.5	41	20	1.5 to 4.9	63
VSP-D4×10-20E*-6TC			6						
VSP-D4×10-30E*-4TC			4	85.6	73.5	54	30	1.1 to 4.8	70
VSP-D4×10-30E*-6TC			6						
VSP-D4×10-40E*-4TC			4	98.6	86.5	67	40	1.0 to 4.5	77
VSP-D4×10-40E*-6TC			6						
VSP-D4×10-50E*-4TC			4	111.6	99.5	80	50	0.9 to 4.5	83
VSP-D4×10-50E*-6TC			6						
VSP-D4×20-20E*-4TC		20	4	72.6	60.5	41	20	1.5 to 4.9	64
VSP-D4×20-20E*-6TC			6						
VSP-D4×20-30E*-4TC			4	85.6	73.5	54	30	1.1 to 4.8	70
VSP-D4×20-30E*-6TC			6						
VSP-D4×20-40E*-4TC			4	98.6	86.5	67	40	1.0 to 4.5	77
VSP-D4×20-40E*-6TC			6						
VSP-D4×20-50E*-4TC			4	111.6	99.5	80	50	0.9 to 4.5	84
VSP-D4×20-50E*-6TC			6						
VSP-D4×30-20E*-4TC		30	4	72.6	60.5	41	20	1.5 to 4.9	64
VSP-D4×30-20E*-6TC			6						
VSP-D4×30-30E*-4TC			4	85.6	73.5	54	30	1.1 to 4.8	71
VSP-D4×30-30E*-6TC			6						
VSP-D4×30-40E*-4TC			4	98.6	86.5	67	40	1.0 to 4.5	78
VSP-D4×30-40E*-6TC			6						
VSP-D4×30-50E*-4TC			4	111.6	99.5	80	50	0.9 to 4.5	84
VSP-D4×30-50E*-6TC			6						

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D*-□E*-4TC/6TC

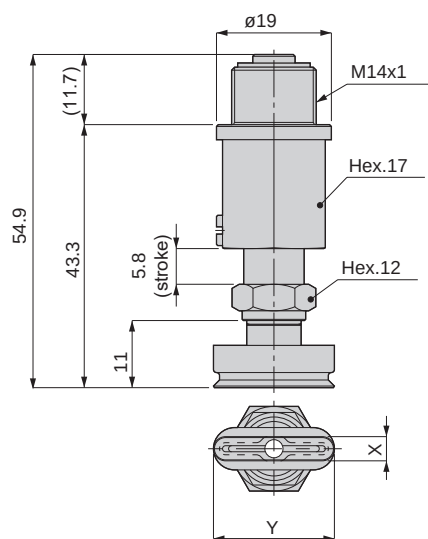


Unit: mm

	Model No.	Pad size		Bore size øD	B	L	E	Stroke S	Spring force (N)	Weight (g)
		X	Y							
General/Deep/ Compact	VSP-D5×10-20E*-4TC	5	10	4	72.6	60.5	41	20	1.5 to 4.9	63
	VSP-D5×10-20E*-6TC			6						
	VSP-D5×10-30E*-4TC			4						
	VSP-D5×10-30E*-6TC			6						
	VSP-D5×10-40E*-4TC			4						
	VSP-D5×10-40E*-6TC			6						
	VSP-D5×10-50E*-4TC			4						
	VSP-D5×10-50E*-6TC			6						
Sponge	VSP-D5×20-20E*-4TC		20	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D5×20-20E*-6TC			6						
	VSP-D5×20-30E*-4TC			4						
	VSP-D5×20-30E*-6TC			6						
Bellows	VSP-D5×20-40E*-4TC			4						
	VSP-D5×20-40E*-6TC			6						
	VSP-D5×20-50E*-4TC			4						
	VSP-D5×20-50E*-6TC			6						
Multi-stage bellows	VSP-D5×30-20E*-4TC		30	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D5×30-20E*-6TC			6						
	VSP-D5×30-30E*-4TC			4						
	VSP-D5×30-30E*-6TC			6						
	VSP-D5×30-40E*-4TC			4						
	VSP-D5×30-40E*-6TC			6						
	VSP-D5×30-50E*-4TC			4						
	VSP-D5×30-50E*-6TC			6						
Oval	VSP-D6×10-20E*-4TC	6	10	4	72.6	60.5	41	20	1.5 to 4.9	63
	VSP-D6×10-20E*-6TC			6						
	VSP-D6×10-30E*-4TC			4						
	VSP-D6×10-30E*-6TC			6						
Soft	VSP-D6×10-40E*-4TC			4						
	VSP-D6×10-40E*-6TC			6						
	VSP-D6×10-50E*-4TC			4						
	VSP-D6×10-50E*-6TC			6						
Soft bellows	VSP-D6×20-20E*-4TC		20	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D6×20-20E*-6TC			6						
	VSP-D6×20-30E*-4TC			4						
	VSP-D6×20-30E*-6TC			6						
	VSP-D6×20-40E*-4TC			4						
	VSP-D6×20-40E*-6TC			6						
	VSP-D6×20-50E*-4TC			4						
	VSP-D6×20-50E*-6TC			6						
Anti-slip	VSP-D6×30-20E*-4TC		30	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D6×30-20E*-6TC			6						
	VSP-D6×30-30E*-4TC			4						
	VSP-D6×30-30E*-6TC			6						
	VSP-D6×30-40E*-4TC			4						
	VSP-D6×30-40E*-6TC			6						
	VSP-D6×30-50E*-4TC			4						
	VSP-D6×30-50E*-6TC			6						
Thin object	VSP-D8×20-20E*-4TC	8	20	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D8×20-20E*-6TC			6						
	VSP-D8×20-30E*-4TC			4						
	VSP-D8×20-30E*-6TC			6						
	VSP-D8×20-40E*-4TC			4						
	VSP-D8×20-40E*-6TC			6						
	VSP-D8×20-50E*-4TC			4						
	VSP-D8×20-50E*-6TC			6						
Flat	VSP-D8×30-20E*-4TC		30	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D8×30-20E*-6TC			6						
	VSP-D8×30-30E*-4TC			4						
	VSP-D8×30-30E*-6TC			6						
	VSP-D8×30-40E*-4TC			4						
	VSP-D8×30-40E*-6TC			6						
	VSP-D8×30-50E*-4TC			4						
	VSP-D8×30-50E*-6TC			6						
Suction mark prevention	VSP-D8×20-20E*-4TC		20	4	72.6	60.5	41	20	1.5 to 4.9	64
	VSP-D8×20-20E*-6TC			6						
	VSP-D8×20-30E*-4TC			4						
	VSP-D8×20-30E*-6TC			6						
	VSP-D8×20-40E*-4TC			4						
	VSP-D8×20-40E*-6TC			6						
	VSP-D8×20-50E*-4TC			4						
	VSP-D8×20-50E*-6TC			6						

Dimensions (direct mounting, buffer, VSP-F male thread)

●VSP-F*E*



Unit: mm

Model No.	Pad size		Spring force (N)	Weight (g)
	X	Y		
VSP-F2×4E*	2	4	7.9 to 15	54
VSP-F3.5×7E*	3.5	7	7.9 to 15	54
VSP-F4×10E*	4	10	7.9 to 15	54
VSP-F4×20E*		20		55
VSP-F4×30E*		30		
VSP-F5×10E*	5	10	7.9 to 15	54
VSP-F5×20E*		20		55
VSP-F5×30E*		30		
VSP-F6×10E*	6	10	7.9 to 15	54
VSP-F6×20E*		20		55
VSP-F6×30E*		30		
VSP-F8×20E*	8	20	7.9 to 15	55
VSP-F8×30E*		30		

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

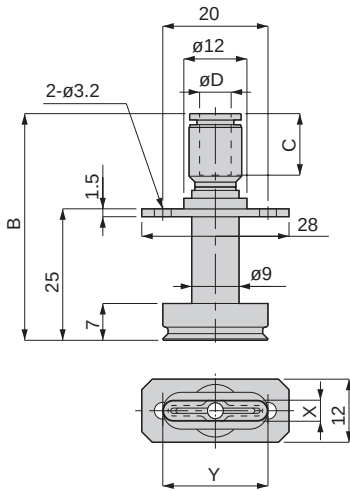
Suction mark
prevention

VSP-*E* Series

Dimensions (screw-in, fixed, vacuum outlet, top, VSP-AE)

●Push-in fitting VSP-AE*E*-2/4/6

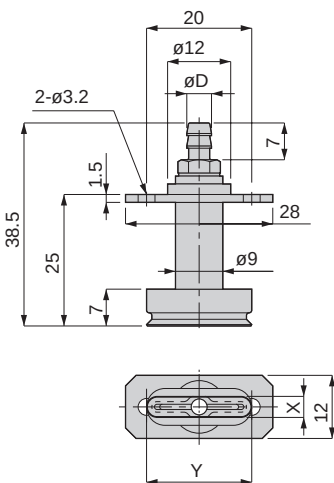
Unit: mm



Model No.	Pad size		Bore size øD	B	Tube end C	Weight (g)
	X	Y				
VSP-AE2×4E*-2	2	4	1.8	37.3	8.4	5
VSP-AE2×4E*-4			4	41.4	11.2	6
VSP-AE2×4E*-6			6	42.7	11.9	7
VSP-AE3.5×7E*-2	3.5	7	1.8	37.3	8.4	5
VSP-AE3.5×7E*-4			4	41.4	11.2	6
VSP-AE3.5×7E*-6			6	42.7	11.9	7
VSP-AE4×10E*-2	4	10	1.8	37.3	8.4	5
VSP-AE4×10E*-4			4	41.4	11.2	6
VSP-AE4×10E*-6			6	42.7	11.9	7
VSP-AE4×20E*-2		20	1.8	37.3	8.4	5.5
VSP-AE4×20E*-4			4	41.4	11.2	6.5
VSP-AE4×20E*-6			6	42.7	11.9	7.5
VSP-AE4×30E*-2		30	1.8	37.3	8.4	6
VSP-AE4×30E*-4			4	41.4	11.2	7
VSP-AE4×30E*-6			6	42.7	11.9	8
VSP-AE5×10E*-2	5	10	1.8	37.3	8.4	5
VSP-AE5×10E*-4			4	41.4	11.2	6
VSP-AE5×10E*-6			6	42.7	11.9	7
VSP-AE5×20E*-2		20	1.8	37.3	8.4	5.5
VSP-AE5×20E*-4			4	41.4	11.2	6.5
VSP-AE5×20E*-6			6	42.7	11.9	7.5
VSP-AE5×30E*-2		30	1.8	37.3	8.4	6
VSP-AE5×30E*-4			4	41.4	11.2	7
VSP-AE5×30E*-6			6	42.7	11.9	8
VSP-AE6×10E*-2	6	10	1.8	37.3	8.4	5
VSP-AE6×10E*-4			4	41.4	11.2	6
VSP-AE6×10E*-6			6	42.7	11.9	7
VSP-AE6×20E*-2		20	1.8	37.3	8.4	5.5
VSP-AE6×20E*-4			4	41.4	11.2	6.5
VSP-AE6×20E*-6			6	42.7	11.9	7.5
VSP-AE6×30E*-2		30	1.8	37.3	8.4	6
VSP-AE6×30E*-4			4	41.4	11.2	7
VSP-AE6×30E*-6			6	42.7	11.9	8
VSP-AE8×20E*-2	8	20	1.8	37.3	8.4	5.5
VSP-AE8×20E*-4			4	41.4	11.2	6.5
VSP-AE8×20E*-6			6	42.7	11.9	7.5
VSP-AE8×30E*-2		30	1.8	37.3	8.4	6
VSP-AE8×30E*-4			4	41.4	11.2	7
VSP-AE8×30E*-6			6	42.7	11.9	8

●Barbed fitting VSP-AE*E*-4T/6T

Unit: mm



Model No.	Pad size		Bore size øD	Weight (g)
	X	Y		
VSP-AE2×4E*-4T	2	4	2.5	5
VSP-AE2×4E*-6T			4	
VSP-AE3.5×7E*-4T			2.5	
VSP-AE3.5×7E*-6T	3.5	7	4	5
VSP-AE4×10E*-4T			2.5	
VSP-AE4×10E*-6T			4	
VSP-AE4×20E*-4T	4	10	2.5	5
VSP-AE4×20E*-6T			4	
VSP-AE4×30E*-4T		20	2.5	5.5
VSP-AE4×30E*-6T			4	
VSP-AE5×10E*-4T		30	2.5	6
VSP-AE5×10E*-6T			4	
VSP-AE5×20E*-4T	5	10	2.5	5
VSP-AE5×20E*-6T			4	
VSP-AE5×30E*-4T		20	2.5	5.5
VSP-AE5×30E*-6T			4	
VSP-AE6×10E*-4T		30	2.5	6
VSP-AE6×10E*-6T			4	
VSP-AE6×20E*-4T	6	10	2.5	5
VSP-AE6×20E*-6T			4	
VSP-AE6×30E*-4T		20	2.5	5.5
VSP-AE6×30E*-6T			4	
VSP-AE8×20E*-4T		30	2.5	6
VSP-AE8×20E*-6T			4	
VSP-AE8×30E*-4T	8	20	2.5	5.5
VSP-AE8×30E*-6T			4	

●Push-in fitting VSP-BE*E*-2/4/6

Oval

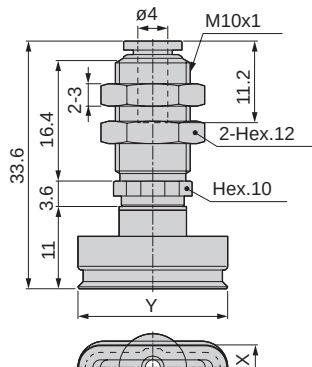
Unit: mm

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Dimensions (compact, fixed, vacuum outlet, top, VSP-MA)

●Push-in fitting VSP-MA*E*-4

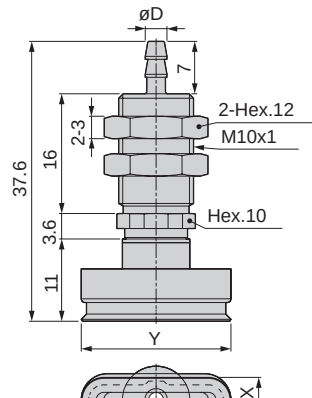
Unit: mm



Model No.	Pad size		Weight (g)
	X	Y	
VSP-MA2×4E*-4	2	4	6
VSP-MA3.5×7E*-4	3.5	7	6
VSP-MA4×10E*-4	4	10	6
VSP-MA4×20E*-4		20	6.3
VSP-MA4×30E*-4		30	6.7
VSP-MA5×10E*-4	5	10	6
VSP-MA5×20E*-4		20	6.3
VSP-MA5×30E*-4		30	6.6
VSP-MA6×10E*-4	6	10	6
VSP-MA6×20E*-4		20	6.3
VSP-MA6×30E*-4		30	6.7
VSP-MA8×20E*-4	8	20	6.3
VSP-MA8×30E*-4		30	6.8

●Barbed fitting VSP-MA*E*-4T/6T

Unit: mm



Model No.	Pad size		Bore size øD	Weight (g)
	X	Y	øD	
VSP-MA2×4E*-4T	2	4	2.5	6
VSP-MA2×4E*-6T			4	
VSP-MA3.5×7E*-4T	3.5	7	2.5	6
VSP-MA3.5×7E*-6T			4	
VSP-MA4×10E*-4T	4	10	2.5	6
VSP-MA4×10E*-6T			4	
VSP-MA4×20E*-4T		20	2.5	6.3
VSP-MA4×20E*-6T			4	
VSP-MA4×30E*-4T	4	30	2.5	6.7
VSP-MA4×30E*-6T			4	
VSP-MA5×10E*-4T	5	10	2.5	6
VSP-MA5×10E*-6T			4	
VSP-MA5×20E*-4T		20	2.5	6.3
VSP-MA5×20E*-6T			4	
VSP-MA5×30E*-4T	5	30	2.5	6.7
VSP-MA5×30E*-6T			4	
VSP-MA6×10E*-4T	6	10	2.5	6
VSP-MA6×10E*-6T			4	
VSP-MA6×20E*-4T		20	2.5	6.3
VSP-MA6×20E*-6T			4	
VSP-MA6×30E*-4T	6	30	2.5	6.7
VSP-MA6×30E*-6T			4	
VSP-MA8×20E*-4T	8	20	2.5	6.4
VSP-MA8×20E*-6T			4	
VSP-MA8×30E*-4T		30	2.5	6.9
VSP-MA8×30E*-6T			4	

●Push-in fitting VSP-MB*E*-2/4/6

Oval

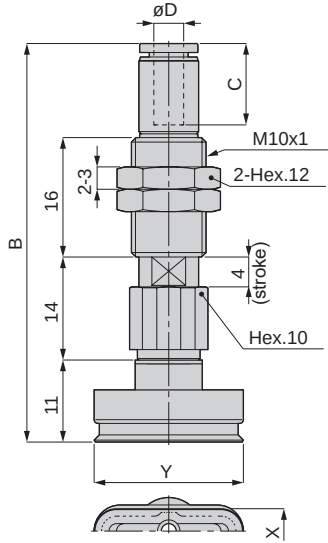
Unit: mm

Thin object

Dimensions (compact, buffer, vacuum outlet, top, VSP-MC)

●Push-in fitting VSP-MC*E*-2/4

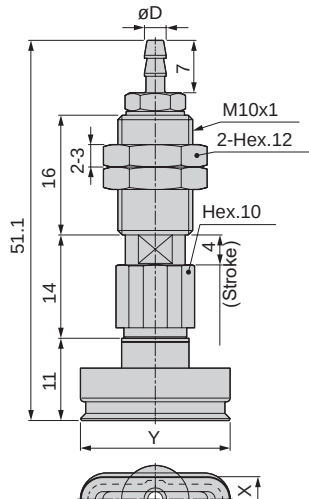
Unit: mm



Model No.	Pad size		Bore size øD	B	Tube end C	Spring force (N)	Weight (g)
	X	Y					
VSP-MC2×4E*-2	2	4	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC2×4E*-4			4	54	11.2		22
VSP-MC3.5×7E*-2	3.5	7	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC3.5×7E*-4			4	54	11.2		22
VSP-MC4×10E*-2	4	10	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC4×10E*-4			4	54	11.2		22
VSP-MC4×20E*-2		20	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC4×20E*-4			4	54	11.2		22
VSP-MC4×30E*-2		30	1.8	49.9	8.4	1.0 to 1.3	22
VSP-MC4×30E*-4			4	54	11.2		23
VSP-MC5×10E*-2	5	10	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC5×10E*-4			4	54	11.2		22
VSP-MC5×20E*-2		20	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC5×20E*-4			4	54	11.2		22
VSP-MC5×30E*-2		30	1.8	49.9	8.4	1.0 to 1.3	22
VSP-MC5×30E*-4			4	54	11.2		23
VSP-MC6×10E*-2	6	10	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC6×10E*-4			4	54	11.2		22
VSP-MC6×20E*-2		20	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC6×20E*-4			4	54	11.2		22
VSP-MC6×30E*-2		30	1.8	49.9	8.4	1.0 to 1.3	22
VSP-MC6×30E*-4			4	54	11.2		23
VSP-MC8×20E*-2	8	20	1.8	49.9	8.4	1.0 to 1.3	21
VSP-MC8×20E*-4			4	54	11.2		22
VSP-MC8×30E*-2		30	1.8	49.9	8.4	1.0 to 1.3	22
VSP-MC8×30E*-4			4	54	11.2		23

●Barbed fitting VSP-MC*E*-4T/6T

Unit: mm



Model No.	Pad size		Bore size øD	Spring force (N)	Weight (g)
	X	Y			
VSP-MC2×4E*-4T	2	4	2.5	1 to 1.3	17
VSP-MC2×4E*-6T			4		
VSP-MC3.5×7E*-4T	3.5	7	2.5	1 to 1.3	17
VSP-MC3.5×7E*-6T			4		
VSP-MC4×10E*-4T	4	10	2.5	1 to 1.3	17
VSP-MC4×10E*-6T			4		
VSP-MC4×20E*-4T		20	2.5		17
VSP-MC4×20E*-6T			4		
VSP-MC4×30E*-4T		30	2.5		18
VSP-MC4×30E*-6T			4		
VSP-MC5×10E*-4T	5	10	2.5	1 to 1.3	17
VSP-MC5×10E*-6T			4		
VSP-MC5×20E*-4T		20	2.5		17
VSP-MC5×20E*-6T			4		
VSP-MC5×30E*-4T		30	2.5		18
VSP-MC5×30E*-6T			4		
VSP-MC6×10E*-4T	6	10	2.5	1 to 1.3	17
VSP-MC6×10E*-6T			4		
VSP-MC6×20E*-4T		20	2.5		17
VSP-MC6×20E*-6T			4		
VSP-MC6×30E*-4T		30	2.5		18
VSP-MC6×30E*-6T			4		
VSP-MC8×20E*-4T	8	20	2.5	1 to 1.3	18
VSP-MC8×20E*-6T			4		
VSP-MC8×30E*-4T		30	2.5		
VSP-MC8×30E*-6T			4		

●Push-in fitting VSP-MD*E*-2/4/6



Suction pad

General/Deep/

Sponge

Bellows

Multi-stage

Oval

Soft

Soft

Anti-slip

Thin objec

Flat

Suction ma

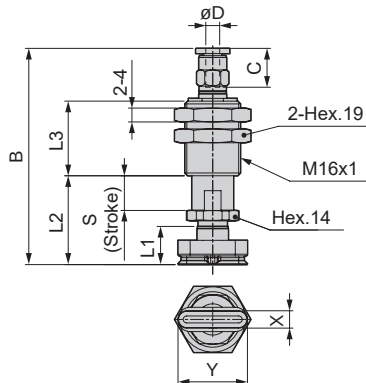
●Barbed fitting VSP-MD*E*-4T/6T



Model No.	Pad size		Bore size øD	Spring force (N)	Weight (g)
	X	Y			
VSP-MD2×4E*-4T	2	4	2.5	1 to 1.3	21
VSP-MD2×4E*-6T			4		
VSP-MD3.5×7E*-4T	3.5	7	2.5	1 to 1.3	21
VSP-MD3.5×7E*-6T			4		
VSP-MD4×10E*-4T	4	10	2.5	1 to 1.3	21
VSP-MD4×10E*-6T			4		
VSP-MD4×20E*-4T		20	2.5		
VSP-MD4×20E*-6T			4		
VSP-MD4×30E*-4T		30	2.5		
VSP-MD4×30E*-6T			4		
VSP-MD5×10E*-4T	5	10	2.5	1 to 1.3	21
VSP-MD5×10E*-6T			4		
VSP-MD5×20E*-4T		20	2.5		
VSP-MD5×20E*-6T			4		
VSP-MD5×30E*-4T		30	2.5		
VSP-MD5×30E*-6T			4		
VSP-MD6×10E*-4T	6	10	2.5	1 to 1.3	20
VSP-MD6×10E*-6T			4		21
VSP-MD6×20E*-4T		20	2.5		
VSP-MD6×20E*-6T			4		21
VSP-MD6×30E*-4T		30	2.5		
VSP-MD6×30E*-6T			4		
VSP-MD8×20E*-4T	8	20	2.5	1 to 1.3	21
VSP-MD8×20E*-6T			4		
VSP-MD8×30E*-4T		30	2.5		
VSP-MD8×30E*-6T			4		

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

- VSP-HC2×4-□E*-2/4/6
- VSP-HC3.5×7-□E*-2/4/6

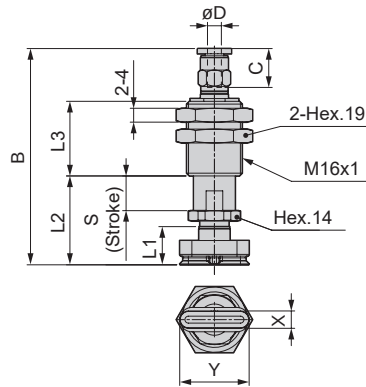


Unit: mm

	Model No.	Pad size		Bore size ϕD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
		X	Y									
General/Deep/Compact	VSP-HC2×4-10E*-2	2.5	4	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	22
	VSP-HC2×4-10E*-4			4	62.3				11.2			23
	VSP-HC2×4-10E*-6			6	63.6				11.9			24
Sponge	VSP-HC2×4-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	24
	VSP-HC2×4-15E*-4			4	72.3				11.2			25
	VSP-HC2×4-15E*-6			6	73.6				11.9			26
Bellows	VSP-HC2×4-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	26
	VSP-HC2×4-20E*-4			4	82.3				11.2			27
	VSP-HC2×4-20E*-6			6	83.6				11.9			28
Multi-stage bellows	VSP-HC2×4-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	28
	VSP-HC2×4-25E*-4			4	92.8				11.2			29
	VSP-HC2×4-25E*-6			6	94.1				11.9			30
Oval	VSP-HC2×4-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	30
	VSP-HC2×4-30E*-4			4	103.8				11.2			31
	VSP-HC2×4-30E*-6			6	105.1				11.9			32
Soft	VSP-HC2×4-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	34
	VSP-HC2×4-40E*-4			4	125.8				11.2			35
	VSP-HC2×4-40E*-6			6	117.2				11.9			36
Soft bellows	VSP-HC2×4-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	38
	VSP-HC2×4-50E*-4			4	147.3				11.2			39
	VSP-HC2×4-50E*-6			6	148.6				11.9			40
Anti-slip	VSP-HC3.5×7-10E*-2	3.5	7	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	22
	VSP-HC3.5×7-10E*-4			4	62.3				11.2			23
	VSP-HC3.5×7-10E*-6			6	63.6				11.9			24
Thin object	VSP-HC3.5×7-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	24
	VSP-HC3.5×7-15E*-4			4	72.3				11.2			25
	VSP-HC3.5×7-15E*-6			6	73.6				11.9			26
Flat	VSP-HC3.5×7-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	26
	VSP-HC3.5×7-20E*-4			4	82.3				11.2			27
	VSP-HC3.5×7-20E*-6			6	83.6				11.9			28
Suction mark prevention	VSP-HC3.5×7-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	28
	VSP-HC3.5×7-25E*-4			4	92.8				11.2			29
	VSP-HC3.5×7-25E*-6			6	94.1				11.9			30
	VSP-HC3.5×7-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	30
	VSP-HC3.5×7-30E*-4			4	103.8				11.2			31
	VSP-HC3.5×7-30E*-6			6	105.1				11.9			32
	VSP-HC3.5×7-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	34
	VSP-HC3.5×7-40E*-4			4	125.8				11.2			35
	VSP-HC3.5×7-40E*-6			6	117.2				11.9			36
	VSP-HC3.5×7-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	38
	VSP-HC3.5×7-50E*-4			4	147.3				11.2			39
	VSP-HC3.5×7-50E*-6			6	148.6				11.9			40

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

- VSP-HC4×10-□E*-2/4/6
- VSP-HC4×20-□E*-2/4/6
- VSP-HC4×30-□E*-2/4/6



Unit: mm

Model No.	Pad size		Bore size ϕD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
	X	Y									
VSP-HC4×10-10E*-2	4	10	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	22
VSP-HC4×10-10E*-4			4	62.3				11.2			23
VSP-HC4×10-10E*-6			6	63.6				11.9			24
VSP-HC4×10-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	24
VSP-HC4×10-15E*-4			4	72.3				11.2			25
VSP-HC4×10-15E*-6			6	73.6				11.9			26
VSP-HC4×10-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	26
VSP-HC4×10-20E*-4			4	82.3				11.2			27
VSP-HC4×10-20E*-6			6	83.6				11.9			28
VSP-HC4×10-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	28
VSP-HC4×10-25E*-4			4	92.8				11.2			29
VSP-HC4×10-25E*-6			6	94.1				11.9			30
VSP-HC4×10-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	30
VSP-HC4×10-30E*-4			4	103.8				11.2			31
VSP-HC4×10-30E*-6			6	105.1				11.9			32
VSP-HC4×10-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	34
VSP-HC4×10-40E*-4			4	125.8				11.2			35
VSP-HC4×10-40E*-6			6	117.2				11.9			36
VSP-HC4×10-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	38
VSP-HC4×10-50E*-4			4	147.3				11.2			39
VSP-HC4×10-50E*-6			6	148.6				11.9			40
VSP-HC4×20-10E*-2		20	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
VSP-HC4×20-10E*-4			4	62.3				11.2			24
VSP-HC4×20-10E*-6			6	63.6				11.9			25
VSP-HC4×20-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	25
VSP-HC4×20-15E*-4			4	72.3				11.2			26
VSP-HC4×20-15E*-6			6	73.6				11.9			27
VSP-HC4×20-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	27
VSP-HC4×20-20E*-4			4	82.3				11.2			28
VSP-HC4×20-20E*-6			6	83.6				11.9			29
VSP-HC4×20-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	29
VSP-HC4×20-25E*-4			4	92.8				11.2			30
VSP-HC4×20-25E*-6			6	94.1				11.9			31
VSP-HC4×20-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	31
VSP-HC4×20-30E*-4			4	103.8				11.2			32
VSP-HC4×20-30E*-6			6	105.1				11.9			33
VSP-HC4×20-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	35
VSP-HC4×20-40E*-4			4	125.8				11.2			36
VSP-HC4×20-40E*-6			6	117.2				11.9			37
VSP-HC4×20-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	39
VSP-HC4×20-50E*-4			4	147.3				11.2			40
VSP-HC4×20-50E*-6			6	148.6				11.9			41
VSP-HC4×30-10E*-2		30	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
VSP-HC4×30-10E*-4			4	62.3				11.2			24
VSP-HC4×30-10E*-6			6	63.6				11.9			25
VSP-HC4×30-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	25
VSP-HC4×30-15E*-4			4	72.3				11.2			26
VSP-HC4×30-15E*-6			6	73.6				11.9			27
VSP-HC4×30-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	27
VSP-HC4×30-20E*-4			4	82.3				11.2			28
VSP-HC4×30-20E*-6			6	83.6				11.9			29
VSP-HC4×30-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	29
VSP-HC4×30-25E*-4			4	92.8				11.2			30
VSP-HC4×30-25E*-6			6	94.1				11.9			31
VSP-HC4×30-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	31
VSP-HC4×30-30E*-4			4	103.8				11.2			32
VSP-HC4×30-30E*-6			6	105.1				11.9			33
VSP-HC4×30-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	35
VSP-HC4×30-40E*-4			4	125.8				11.2			36
VSP-HC4×30-40E*-6			6	117.2				11.9			37
VSP-HC4×30-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	39
VSP-HC4×30-50E*-4			4	147.3				11.2			40
VSP-HC4×30-50E*-6			6	148.6				11.9			41

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

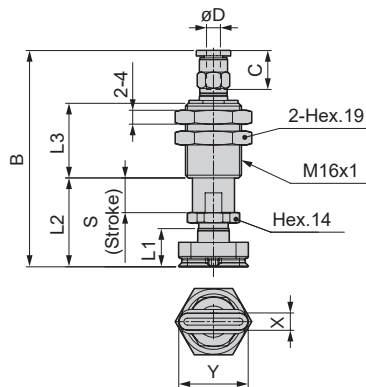
Suction mark prevention

VSP-*E* Series

□●VSP-HC5×10-□E*-2/4/6

●VSP-HC5×20-□E*-2/4/6

●VSP-HC5×30-□E*-2/4/6



Unit: mm

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

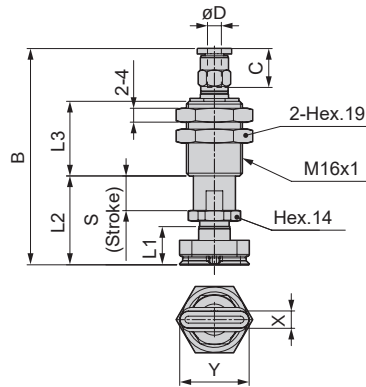
Flat

Suction mark
prevention

Model No.	Pad size		Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)		
	X	Y											
VSP-HC5×10-10E*-2	5	10	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	22		
VSP-HC5×10-10E*-4			4	62.3				11.2			23		
VSP-HC5×10-10E*-6			6	63.6				11.9			24		
VSP-HC5×10-15E*-2			1.8	68.2				8.4			24		
VSP-HC5×10-15E*-4			4	72.3		11.2	25						
VSP-HC5×10-15E*-6			6	73.6		11.9	26						
VSP-HC5×10-20E*-2			1.8	78.2		8.4	26						
VSP-HC5×10-20E*-4			4	82.3		11.2	27						
VSP-HC5×10-20E*-6			6	83.6		11.9	28						
VSP-HC5×10-25E*-2			1.8	88.7		8.4	28						
VSP-HC5×10-25E*-4			4	92.8		11.2	29						
VSP-HC5×10-25E*-6			6	94.1		11.9	30						
VSP-HC5×10-30E*-2			1.8	99.7		8.4	30						
VSP-HC5×10-30E*-4			4	103.8		11.2	31						
VSP-HC5×10-30E*-6			6	105.1		11.9	32						
VSP-HC5×10-40E*-2			1.8	121.7		8.4	34						
VSP-HC5×10-40E*-4		4	125.8	11.2		35							
VSP-HC5×10-40E*-6		6	117.2	11.9		36							
VSP-HC5×10-50E*-2		1.8	143.2	8.4		38							
VSP-HC5×10-50E*-4		4	147.3	11.2		39							
VSP-HC5×10-50E*-6		6	148.6	11.9		40							
VSP-HC5×20-10E*-2		5	20	1.8		58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
VSP-HC5×20-10E*-4				4		62.3				11.2			24
VSP-HC5×20-10E*-6				6		63.6				11.9			25
VSP-HC5×20-15E*-2				1.8		68.2				8.4			25
VSP-HC5×20-15E*-4				4		72.3		11.2	26				
VSP-HC5×20-15E*-6				6		73.6		11.9	27				
VSP-HC5×20-20E*-2				1.8		78.2		8.4	27				
VSP-HC5×20-20E*-4				4		82.3		11.2	28				
VSP-HC5×20-20E*-6				6		83.6		11.9	29				
VSP-HC5×20-25E*-2				1.8		88.7		8.4	29				
VSP-HC5×20-25E*-4				4		92.8		11.2	30				
VSP-HC5×20-25E*-6	6			94.1	11.9	31							
VSP-HC5×20-30E*-2	1.8			99.7	8.4	31							
VSP-HC5×20-30E*-4	4			103.8	11.2	32							
VSP-HC5×20-30E*-6	6			105.1	11.9	33							
VSP-HC5×20-40E*-2	1.8			121.7	8.4	35							
VSP-HC5×20-40E*-4	4		125.8	11.2	36								
VSP-HC5×20-40E*-6	6		117.2	11.9	37								
VSP-HC5×20-50E*-2	1.8		143.2	8.4	39								
VSP-HC5×20-50E*-4	4		147.3	11.2	40								
VSP-HC5×20-50E*-6	6		148.6	11.9	41								
VSP-HC5×30-10E*-2	5		30	1.8	58.2	11		25.6	21.5	8.4	10	1.0 to 2.4	23
VSP-HC5×30-10E*-4				4	62.3					11.2			24
VSP-HC5×30-10E*-6				6	63.6					11.9			25
VSP-HC5×30-15E*-2				1.8	68.2					8.4			25
VSP-HC5×30-15E*-4				4	72.3			11.2	26				
VSP-HC5×30-15E*-6				6	73.6			11.9	27				
VSP-HC5×30-20E*-2				1.8	78.2			8.4	27				
VSP-HC5×30-20E*-4				4	82.3			11.2	28				
VSP-HC5×30-20E*-6				6	83.6			11.9	29				
VSP-HC5×30-25E*-2				1.8	88.7			8.4	29				
VSP-HC5×30-25E*-4				4	92.8			11.2	30				
VSP-HC5×30-25E*-6		6		94.1	11.9		31						
VSP-HC5×30-30E*-2		1.8		99.7	8.4		31						
VSP-HC5×30-30E*-4		4		103.8	11.2		32						
VSP-HC5×30-30E*-6		6		105.1	11.9		33						
VSP-HC5×30-40E*-2		1.8		121.7	8.4		35						
VSP-HC5×30-40E*-4		4	125.8	11.2	36								
VSP-HC5×30-40E*-6		6	117.2	11.9	37								
VSP-HC5×30-50E*-2		1.8	143.2	8.4	39								
VSP-HC5×30-50E*-4		4	147.3	11.2	40								
VSP-HC5×30-50E*-6	6	148.6	11.9	41									

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

- VSP-HC6×10-□E*-2/4/6
- VSP-HC6×20-□E*-2/4/6
- VSP-HC6×30-□E*-2/4/6



Unit: mm

Model No.	Pad size		Bore size ϕD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
	X	Y									
VSP-HC6×10-10E*-2	6	10	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	22
VSP-HC6×10-10E*-4			4	62.3				11.2			23
VSP-HC6×10-10E*-6			6	63.6				11.9			24
VSP-HC6×10-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	24
VSP-HC6×10-15E*-4			4	72.3				11.2			25
VSP-HC6×10-15E*-6			6	73.6				11.9			26
VSP-HC6×10-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	26
VSP-HC6×10-20E*-4			4	82.3				11.2			27
VSP-HC6×10-20E*-6			6	83.6				11.9			28
VSP-HC6×10-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	28
VSP-HC6×10-25E*-4			4	92.8				11.2			29
VSP-HC6×10-25E*-6			6	94.1				11.9			30
VSP-HC6×10-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	30
VSP-HC6×10-30E*-4			4	103.8				11.2			31
VSP-HC6×10-30E*-6			6	105.1				11.9			32
VSP-HC6×10-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	34
VSP-HC6×10-40E*-4			4	125.8				11.2			35
VSP-HC6×10-40E*-6			6	117.2				11.9			36
VSP-HC6×10-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	38
VSP-HC6×10-50E*-4			4	147.3				11.2			39
VSP-HC6×10-50E*-6			6	148.6				11.9			40
VSP-HC6×20-10E*-2	6	20	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
VSP-HC6×20-10E*-4			4	62.3				11.2			24
VSP-HC6×20-10E*-6			6	63.6				11.9			25
VSP-HC6×20-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	25
VSP-HC6×20-15E*-4			4	72.3				11.2			26
VSP-HC6×20-15E*-6			6	73.6				11.9			27
VSP-HC6×20-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	27
VSP-HC6×20-20E*-4			4	82.3				11.2			28
VSP-HC6×20-20E*-6			6	83.6				11.9			29
VSP-HC6×20-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	29
VSP-HC6×20-25E*-4			4	92.8				11.2			30
VSP-HC6×20-25E*-6			6	94.1				11.9			31
VSP-HC6×20-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	31
VSP-HC6×20-30E*-4			4	103.8				11.2			32
VSP-HC6×20-30E*-6			6	105.1				11.9			33
VSP-HC6×20-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	35
VSP-HC6×20-40E*-4			4	125.8				11.2			36
VSP-HC6×20-40E*-6			6	117.2				11.9			37
VSP-HC6×20-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	39
VSP-HC6×20-50E*-4			4	147.3				11.2			40
VSP-HC6×20-50E*-6			6	148.6				11.9			41
VSP-HC6×30-10E*-2	6	30	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
VSP-HC6×30-10E*-4			4	62.3				11.2			24
VSP-HC6×30-10E*-6			6	63.6				11.9			25
VSP-HC6×30-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	25
VSP-HC6×30-15E*-4			4	72.3				11.2			26
VSP-HC6×30-15E*-6			6	73.6				11.9			27
VSP-HC6×30-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	27
VSP-HC6×30-20E*-4			4	82.3				11.2			28
VSP-HC6×30-20E*-6			6	83.6				11.9			29
VSP-HC6×30-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	29
VSP-HC6×30-25E*-4			4	92.8				11.2			30
VSP-HC6×30-25E*-6			6	94.1				11.9			31
VSP-HC6×30-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	31
VSP-HC6×30-30E*-4			4	103.8				11.2			32
VSP-HC6×30-30E*-6			6	105.1				11.9			33
VSP-HC6×30-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	35
VSP-HC6×30-40E*-4			4	125.8				11.2			36
VSP-HC6×30-40E*-6			6	117.2				11.9			37
VSP-HC6×30-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	39
VSP-HC6×30-50E*-4			4	147.3				11.2			40
VSP-HC6×30-50E*-6			6	148.6				11.9			41

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

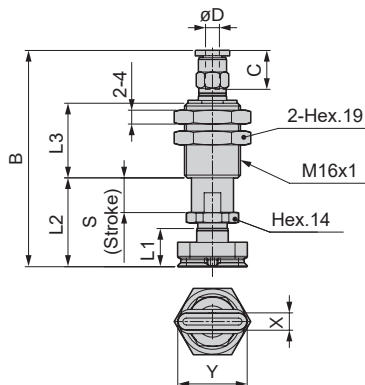
Thin object

Flat

Suction mark prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, push-in fitting)

- VSP-HC8×20-□E*-2/4/6
- VSP-HC8×30-□E*-2/4/6

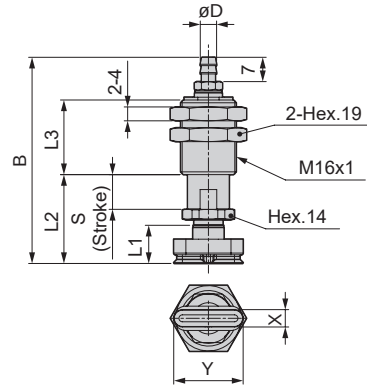


Unit: mm

	Model No.	Pad size		Bore size ϕD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
		X	Y									
General/Deep/Compact	VSP-HC8×20-10E*-2	8	20	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
	VSP-HC8×20-10E*-4			4	62.3				11.2			24
	VSP-HC8×20-10E*-6			6	63.6				11.9			25
Sponge	VSP-HC8×20-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	25
	VSP-HC8×20-15E*-4			4	72.3				11.2			26
	VSP-HC8×20-15E*-6			6	73.6				11.9			27
Bellows	VSP-HC8×20-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	27
	VSP-HC8×20-20E*-4			4	82.3				11.2			28
	VSP-HC8×20-20E*-6			6	83.6				11.9			29
Multi-stage bellows	VSP-HC8×20-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	29
	VSP-HC8×20-25E*-4			4	92.8				11.2			30
	VSP-HC8×20-25E*-6			6	94.1				11.9			31
Oval	VSP-HC8×20-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	31
	VSP-HC8×20-30E*-4			4	103.8				11.2			32
	VSP-HC8×20-30E*-6			6	105.1				11.9			33
Soft	VSP-HC8×20-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	35
	VSP-HC8×20-40E*-4			4	125.8				11.2			36
	VSP-HC8×20-40E*-6			6	117.2				11.9			37
Soft bellows	VSP-HC8×20-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	39
	VSP-HC8×20-50E*-4			4	147.3				11.2			40
	VSP-HC8×20-50E*-6			6	148.6				11.9			41
Anti-slip	VSP-HC8×30-10E*-2		30	1.8	58.2	11	25.6	21.5	8.4	10	1.0 to 2.4	23
	VSP-HC8×30-10E*-4			4	62.3				11.2			24
	VSP-HC8×30-10E*-6			6	63.6				11.9			25
Thin object	VSP-HC8×30-15E*-2			1.8	68.2		30.6	26.5	8.4	15	1.0 to 2.7	25
	VSP-HC8×30-15E*-4			4	72.3				11.2			26
	VSP-HC8×30-15E*-6			6	73.6				11.9			27
Flat	VSP-HC8×30-20E*-2			1.8	78.2		35.6	31.5	8.4	20	1.0 to 3.0	27
	VSP-HC8×30-20E*-4			4	82.3				11.2			28
	VSP-HC8×30-20E*-6			6	83.6				11.9			29
Suction mark prevention	VSP-HC8×30-25E*-2			1.8	88.7		40.6	37	8.4	25	1.0 to 3.0	29
	VSP-HC8×30-25E*-4			4	92.8				11.2			30
	VSP-HC8×30-25E*-6			6	94.1				11.9			31
	VSP-HC8×30-30E*-2			1.8	99.7		45.6	43	8.4	30	1.0 to 3.0	31
	VSP-HC8×30-30E*-4			4	103.8				11.2			32
	VSP-HC8×30-30E*-6			6	105.1				11.9			33
	VSP-HC8×30-40E*-2			1.8	121.7		55.6	55	8.4	40	1.0 to 3.0	35
	VSP-HC8×30-40E*-4			4	125.8				11.2			36
	VSP-HC8×30-40E*-6			6	117.2				11.9			37
	VSP-HC8×30-50E*-2			1.8	143.2		65.6	66.5	8.4	50	1.0 to 3.1	39
	VSP-HC8×30-50E*-4			4	147.3				11.2			40
	VSP-HC8×30-50E*-6			6	148.6				11.9			41

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

- VSP-HC2×4-□E*-4T/6T
- VSP-HC3.5×7-□E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
	X	Y								
VSP-HC2×4-10EE*-4T	2.5	4	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	21
VSP-HC2×4-10E*-6T			4							
VSP-HC2×4-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	23
VSP-HC2×4-15E*-6T			4							
VSP-HC2×4-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	25
VSP-HC2×4-20E*-6T			4							
VSP-HC2×4-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	27
VSP-HC2×4-25E*-6T			4							
VSP-HC2×4-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	30
VSP-HC2×4-30E*-6T			4							
VSP-HC2×4-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	34
VSP-HC2×4-40E*-6T			4							
VSP-HC2×4-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	38
VSP-HC2×4-50E*-6T			4							
VSP-HC3.5×7-10E*-4T	3.5	7	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	21
VSP-HC3.5×7-10E*-6T			4							
VSP-HC3.5×7-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	23
VSP-HC3.5×7-15E*-6T			4							
VSP-HC3.5×7-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	25
VSP-HC3.5×7-20E*-6T			4							
VSP-HC3.5×7-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	27
VSP-HC3.5×7-25E*-6T			4							
VSP-HC3.5×7-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	30
VSP-HC3.5×7-30E*-6T			4							
VSP-HC3.5×7-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	34
VSP-HC3.5×7-40E*-6T			4							
VSP-HC3.5×7-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	38
VSP-HC3.5×7-50E*-6T			4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

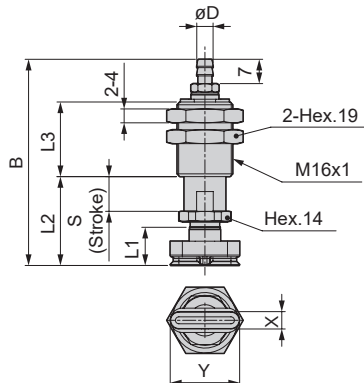
Thin object

Flat

Suction mark
prevention

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

- VSP-HC4×10-□E*-4T/6T
- VSP-HC4×20-□E*-4T/6T
- VSP-HC4×30-□E*-4T/6T

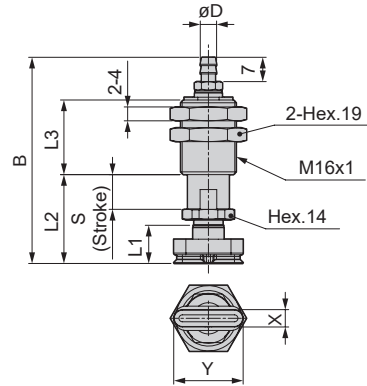


Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)	
		X	Y									
General/Deep/ Compact	VSP-HC4×10-10E*-4T	4	10	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	21	
	VSP-HC4×10-10E*-6T			4								
	VSP-HC4×10-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	23	
	VSP-HC4×10-15E*-6T			4								
Sponge	VSP-HC4×10-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	25	
	VSP-HC4×10-20E*-6T			4								
Bellows	VSP-HC4×10-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	27	
	VSP-HC4×10-25E*-6T			4								
Multi-stage bellows	VSP-HC4×10-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	30	
	VSP-HC4×10-30E*-6T			4								
	VSP-HC4×10-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	34	
	VSP-HC4×10-40E*-6T			4								
Oval	VSP-HC4×10-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	38	
	VSP-HC4×10-50E*-6T			4								
Soft	VSP-HC4×20-10E*-4T		20	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22	
	VSP-HC4×20-10E*-6T			4								
	VSP-HC4×20-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24	
	VSP-HC4×20-15E*-6T			4								
Soft bellows	VSP-HC4×20-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26	
	VSP-HC4×20-20E*-6T			4								
Anti-slip	VSP-HC4×20-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	28	
	VSP-HC4×20-25E*-6T			4								
Thin object	VSP-HC4×20-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	31	
	VSP-HC4×20-30E*-6T			4								
	VSP-HC4×20-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	35	
	VSP-HC4×20-40E*-6T			4								
Suction mark prevention	VSP-HC4×20-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	39	
	VSP-HC4×20-50E*-6T			4								
	VSP-HC4×30-10E*-4T		30	2.5	59.4		25.6	21.5	10	1.0 to 2.4	22	
	VSP-HC4×30-10E*-6T			4								
	VSP-HC4×30-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24	
	VSP-HC4×30-15E*-6T			4								
	VSP-HC4×30-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26	
	VSP-HC4×30-20E*-6T			4								
	VSP-HC4×30-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	28	
	VSP-HC4×30-25E*-6T			4								
	VSP-HC4×30-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	31	
	VSP-HC4×30-30E*-6T			4								
	VSP-HC4×30-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	35	
	VSP-HC4×30-40E*-6T			4								
	VSP-HC4×30-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	39	
	VSP-HC4×30-50E*-6T			4								

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

- VSP-HC5×10-□E*-4T/6T
- VSP-HC5×20-□E*-4T/6T
- VSP-HC5×30-□E*-4T/6T

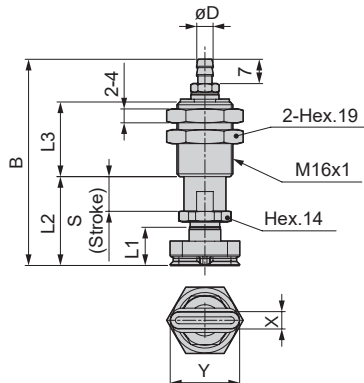


Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
	X	Y								
VSP-HC5×10-10E*-4T	5	10	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	21
VSP-HC5×10-10E*-6T			4							
VSP-HC5×10-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	23
VSP-HC5×10-15E*-6T			4							
VSP-HC5×10-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	25
VSP-HC5×10-20E*-6T			4							
VSP-HC5×10-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	27
VSP-HC5×10-25E*-6T			4							
VSP-HC5×10-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	30
VSP-HC5×10-30E*-6T			4							
VSP-HC5×10-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	34
VSP-HC5×10-40E*-6T			4							
VSP-HC5×10-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	38
VSP-HC5×10-50E*-6T			4							
VSP-HC5×20-10E*-4T		20	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22
VSP-HC5×20-10E*-6T			4							
VSP-HC5×20-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24
VSP-HC5×20-15E*-6T			4							
VSP-HC5×20-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26
VSP-HC5×20-20E*-6T			4							
VSP-HC5×20-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	28
VSP-HC5×20-25E*-6T			4							
VSP-HC5×20-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	31
VSP-HC5×20-30E*-6T			4							
VSP-HC5×20-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	35
VSP-HC5×20-40E*-6T			4							
VSP-HC5×20-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	39
VSP-HC5×20-50E*-6T			4							
VSP-HC5×30-10E*-4T		30	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22
VSP-HC5×30-10E*-6T			4							
VSP-HC5×30-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24
VSP-HC5×30-15E*-6T			4							
VSP-HC5×30-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26
VSP-HC5×30-20E*-6T			4							
VSP-HC5×30-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	28
VSP-HC5×30-25E*-6T			4							
VSP-HC5×30-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	31
VSP-HC5×30-30E*-6T			4							
VSP-HC5×30-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	35
VSP-HC5×30-40E*-6T			4							
VSP-HC5×30-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	39
VSP-HC5×30-50E*-6T			4							

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

- VSP-HC6×10-□E*-4T/6T
- VSP-HC6×20-□E*-4T/6T
- VSP-HC6×30-□E*-4T/6T

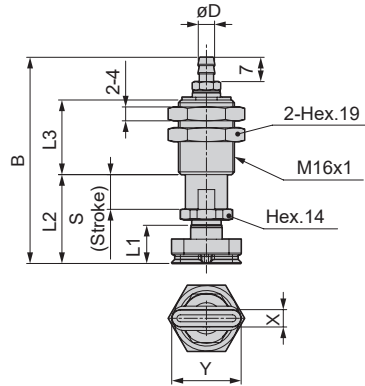


Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
		X	Y								
General/Deep/ Compact	VSP-HC6×10-10E*-4T	6	10	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	21
	VSP-HC6×10-10E*-6T			4							
	VSP-HC6×10-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	23
	VSP-HC6×10-15E*-6T			4							
Sponge	VSP-HC6×10-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	25
	VSP-HC6×10-20E*-6T			4							
Bellows	VSP-HC6×10-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	27
	VSP-HC6×10-25E*-6T			4							
Multi-stage bellows	VSP-HC6×10-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	30
	VSP-HC6×10-30E*-6T			4							
	VSP-HC6×10-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	34
	VSP-HC6×10-40E*-6T			4							
Oval	VSP-HC6×10-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	38
	VSP-HC6×10-50E*-6T			4							
Soft	VSP-HC6×20-10E*-4T		20	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22
	VSP-HC6×20-10E*-6T			4							
	VSP-HC6×20-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24
	VSP-HC6×20-15E*-6T			4							
Soft bellows	VSP-HC6×20-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26
	VSP-HC6×20-20E*-6T			4							
Anti-slip	VSP-HC6×20-25E*-4T	2.5		89.9	40.6		37	25	1.0 to 3.0	28	
	VSP-HC6×20-25E*-6T	4									
	VSP-HC6×20-30E*-4T	2.5		100.9	45.6		43	30	1.0 to 3.0	31	
	VSP-HC6×20-30E*-6T	4									
Thin object	VSP-HC6×20-40E*-4T	2.5		122.9	55.6		55	40	1.0 to 3.0	35	
	VSP-HC6×20-40E*-6T	4									
	Flat	VSP-HC6×20-50E*-4T		2.5	144.4		65.6	66.5	50	1.0 to 3.1	39
		VSP-HC6×20-50E*-6T		4							
Suction mark prevention	VSP-HC6×30-10E*-4T	30	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22	
	VSP-HC6×30-10E*-6T		4								
	VSP-HC6×30-15E*-4T		2.5	69.4		30.6	26.5	15	1.0 to 2.7	24	
	VSP-HC6×30-15E*-6T		4								
VSP-HC6×30-20E*-4T	2.5		79.4	35.6		31.5	20	1.0 to 3.0	26		
VSP-HC6×30-20E*-6T	4										
	VSP-HC6×30-25E*-4T		2.5	89.9		40.6	37	25	1.0 to 3.0	28	
	VSP-HC6×30-25E*-6T		4								
	VSP-HC6×30-30E*-4T		2.5	100.9		45.6	43	30	1.0 to 3.0	31	
	VSP-HC6×30-30E*-6T		4								
	VSP-HC6×30-40E*-4T		2.5	122.9		55.6	55	40	1.0 to 3.0	35	
	VSP-HC6×30-40E*-6T		4								
	VSP-HC6×30-50E*-4T		2.5	144.4		65.6	66.5	50	1.0 to 3.1	39	
	VSP-HC6×30-50E*-6T		4								

Dimensions (low back, buffer, vacuum outlet, top, VSP-HC, barbed fitting)

- VSP-HC8×20-□E*-4T/6T
- VSP-HC8×30-□E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
	X	Y								
VSP-HC8×20-10E*-4T	8	20	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22
VSP-HC8×20-10E*-6T			4							
VSP-HC8×20-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24
VSP-HC8×20-15E*-6T			4							
VSP-HC8×20-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26
VSP-HC8×20-20E*-6T			4							
VSP-HC8×20-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	28
VSP-HC8×20-25E*-6T			4							
VSP-HC8×20-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	31
VSP-HC8×20-30E*-6T			4							
VSP-HC8×20-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	35
VSP-HC8×20-40E*-6T			4							
VSP-HC8×20-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	39
VSP-HC8×20-50E*-6T			4							
VSP-HC8×30-10E*-4T		30	2.5	59.4	11	25.6	21.5	10	1.0 to 2.4	22
VSP-HC8×30-10E*-6T			4							
VSP-HC8×30-15E*-4T			2.5	69.4		30.6	26.5	15	1.0 to 2.7	24
VSP-HC8×30-15E*-6T			4							
VSP-HC8×30-20E*-4T			2.5	79.4		35.6	31.5	20	1.0 to 3.0	26
VSP-HC8×30-20E*-6T			4							
VSP-HC8×30-25E*-4T			2.5	89.9		40.6	37	25	1.0 to 3.0	28
VSP-HC8×30-25E*-6T			4							
VSP-HC8×30-30E*-4T			2.5	100.9		45.6	43	30	1.0 to 3.0	31
VSP-HC8×30-30E*-6T			4							
VSP-HC8×30-40E*-4T			2.5	122.9		55.6	55	40	1.0 to 3.0	35
VSP-HC8×30-40E*-6T			4							
VSP-HC8×30-50E*-4T			2.5	144.4		65.6	66.5	50	1.0 to 3.1	39
VSP-HC8×30-50E*-6T			4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

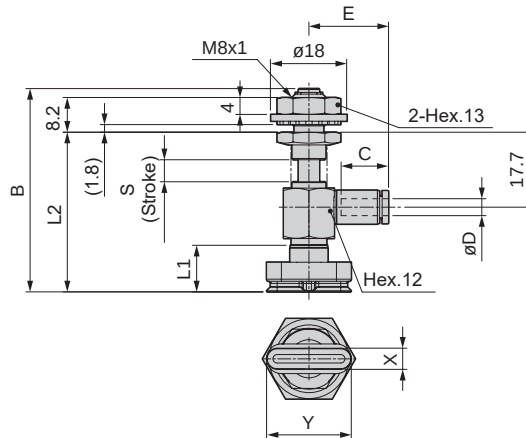
Thin object

Flat

Suction mark
prevention

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, push-in fitting)

●VSP-HD*E*-2/4/6

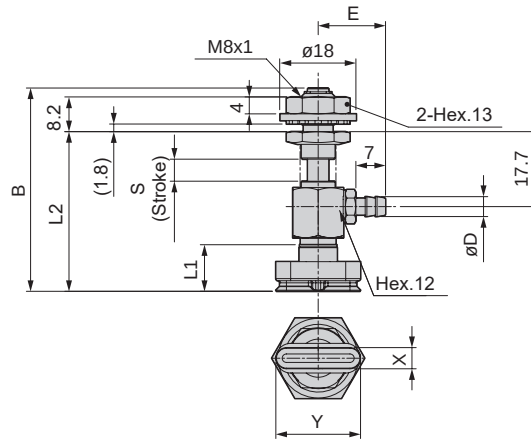


Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
		X	Y									
General/Deep/Compact	VSP-HD2×4E*-2	2	4	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	31
	VSP-HD2×4E*-4			4				11.2	18.8			32
	VSP-HD2×4E*-6			6				11.9	20.6			33
Sponge	VSP-HD3.5×7E*-2	3.5	7	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	31
	VSP-HD3.5×7E*-4			4				11.2	18.8			32
	VSP-HD3.5×7E*-6			6				11.9	20.6			33
Bellows	VSP-HD4×10E*-2	4	10	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	31
	VSP-HD4×10E*-4			4				11.2	18.8			32
	VSP-HD4×10E*-6			6				11.9	20.6			33
Multi-stage bellows	VSP-HD4×20E*-2		20	1.8				8.4	14.7			32
	VSP-HD4×20E*-4			4				11.2	18.8			33
	VSP-HD4×20E*-6			6				11.9	20.6			34
Oval	VSP-HD4×30E*-2		30	1.8				8.4	14.7			32
	VSP-HD4×30E*-4			4				11.2	18.8			33
	VSP-HD4×30E*-6			6				11.9	20.6			34
Soft	VSP-HD5×10E*-2	5	10	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	31
	VSP-HD5×10E*-4			4				11.2	18.8			32
	VSP-HD5×10E*-6			6				11.9	20.6			33
Soft bellows	VSP-HD5×20E*-2		20	1.8				8.4	14.7			32
	VSP-HD5×20E*-4			4				11.2	18.8			33
	VSP-HD5×20E*-6			6				11.9	20.6			34
Anti-slip	VSP-HD5×30E*-2		30	1.8				8.4	14.7			32
	VSP-HD5×30E*-4			4				11.2	18.8			33
	VSP-HD5×30E*-6			6				11.9	20.6			34
Thin object	VSP-HD6×10E*-2	6	10	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	31
	VSP-HD6×10E*-4			4				11.2	18.8			32
	VSP-HD6×10E*-6			6				11.9	20.6			33
Flat	VSP-HD6×20E*-2		20	1.8				8.4	14.7			32
	VSP-HD6×20E*-4			4				11.2	18.8			33
	VSP-HD6×20E*-6			6				11.9	20.6			34
Suction mark prevention	VSP-HD6×30E*-2		30	1.8				8.4	14.7			32
	VSP-HD6×30E*-4			4				11.2	18.8			33
	VSP-HD6×30E*-6			6				11.9	20.6			34
	VSP-HD8×20E*-2	8	20	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	32
	VSP-HD8×20E*-4			4				11.2	18.8			33
	VSP-HD8×20E*-6			6				11.9	20.6			34
	VSP-HD8×30E*-2		30	1.8				8.4	14.7			32
	VSP-HD8×30E*-4			4				11.2	18.8			33
	VSP-HD8×30E*-6			6				11.9	20.6			34

Dimensions (lightweight, buffer, vacuum outlet, side, VSP-HD, barbed fitting)

●VSP-HD*E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
	X	Y	øD						
VSP-HD2×4E*-4T	2	4	1.8	48	11	37.7	5.2	1.6 to 2.9	30
VSP-HD2×4E*-6T			6						31
VSP-HD3.5×7E*-4T	3.5	7	1.8	48	11	37.7	5.2	1.6 to 2.9	30
VSP-HD3.5×7E*-6T			6						31
VSP-HD4×10E*-4T	4	10	1.8	48	11	37.7	5.2	1.6 to 2.9	30
VSP-HD4×10E*-6T			6						31
VSP-HD4×20E*-4T		20	1.8						31
VSP-HD4×20E*-6T			6						32
VSP-HD4×30E*-4T		30	1.8						31
VSP-HD4×30E*-6T			6						32
VSP-HD5×10E*-4T	5	10	1.8	48	11	37.7	5.2	1.6 to 2.9	30
VSP-HD5×10E*-6T			6						31
VSP-HD5×20E*-4T		20	1.8						31
VSP-HD5×20E*-6T			6						32
VSP-HD5×30E*-4T		30	1.8						31
VSP-HD5×30E*-6T			6						32
VSP-HD6×10E*-4T	6	10	1.8	48	11	37.7	5.2	1.6 to 2.9	30
VSP-HD6×10E*-6T			6						31
VSP-HD6×20E*-4T		20	1.8						31
VSP-HD6×20E*-6T			6						32
VSP-HD6×30E*-4T		30	1.8						31
VSP-HD6×30E*-6T			6						32
VSP-HD8×20E*-4T	8	20	1.8	48	11	37.7	5.2	1.6 to 2.9	31
VSP-HD8×20E*-6T			6						32
VSP-HD8×30E*-4T		30	1.8						31
VSP-HD8×30E*-6T			6						32

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

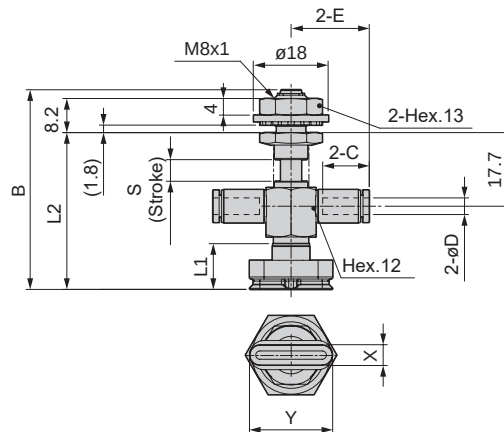
Thin object

Flat

Suction mark prevention

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW*E*-2/4/6

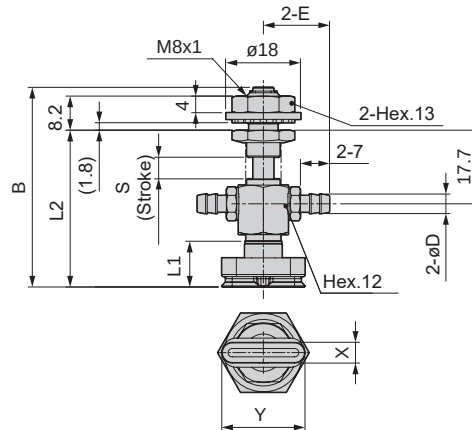


Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
		X	Y									
General/Deep/ Compact	VSP-HDW2×4E*-2	2	4	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	33
	VSP-HDW2×4E*-4			4				11.2	18.8			35
	VSP-HDW2×4E*-6			6				11.9	20.6			37
Sponge	VSP-HDW3.5×7E*-2	3.5	7	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	33
	VSP-HDW3.5×7E*-4			4				11.2	18.8			35
	VSP-HDW3.5×7E*-6			6				11.9	20.6			37
Bellows	VSP-HDW4×10E*-2	4	10	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	33
	VSP-HDW4×10E*-4			4				11.2	18.8			35
	VSP-HDW4×10E*-6			6				11.9	20.6			37
Multi-stage bellows	VSP-HDW4×20E*-2		20	1.8				8.4	14.7			34
	VSP-HDW4×20E*-4			4				11.2	18.8			36
	VSP-HDW4×20E*-6			6				11.9	20.6			38
Oval	VSP-HDW4×30E*-2	4	30	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	34
	VSP-HDW4×30E*-4			4				11.2	18.8			36
	VSP-HDW4×30E*-6			6				11.9	20.6			38
	VSP-HDW5×10E*-2		10	1.8		48	37.7	8.4	14.7			33
	VSP-HDW5×10E*-4			4				11.2	18.8			35
	VSP-HDW5×10E*-6			6				11.9	20.6			37
Soft	VSP-HDW5×20E*-2	5	20	1.8				8.4	14.7	5.2	1.6 to 2.9	34
	VSP-HDW5×20E*-4			4				11.2	18.8			36
	VSP-HDW5×20E*-6			6				11.9	20.6			38
Soft bellows	VSP-HDW5×30E*-2		30	1.8				8.4	14.7			34
	VSP-HDW5×30E*-4			4				11.2	18.8			36
	VSP-HDW5×30E*-6			6				11.9	20.6			38
Anti-slip	VSP-HDW6×10E*-2	6	10	1.8	48	11	37.7	8.4	14.7	5.2	1.6 to 2.9	33
	VSP-HDW6×10E*-4			4				11.2	18.8			35
	VSP-HDW6×10E*-6			6				11.9	20.6			37
Thin object	VSP-HDW6×20E*-2		20	1.8				8.4	14.7			34
	VSP-HDW6×20E*-4			4				11.2	18.8			36
	VSP-HDW6×20E*-6			6				11.9	20.6			38
Flat	VSP-HDW6×30E*-2	6	30	1.8				8.4	14.7	5.2	1.6 to 2.9	34
	VSP-HDW6×30E*-4			4				11.2	18.8			36
	VSP-HDW6×30E*-6			6				11.9	20.6			38
Suction mark prevention	VSP-HDW8×20E*-2	8	20	1.8	48	11	37.7	8.4	14.7			34
	VSP-HDW8×20E*-4			4				11.2	18.8			36
	VSP-HDW8×20E*-6			6				11.9	20.6			38
	VSP-HDW8×30E*-2		30	1.8				8.4	14.7			34
	VSP-HDW8×30E*-4			4				11.2	18.8			36
	VSP-HDW8×30E*-6			6				11.9	20.6			38

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW*E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
	X	Y							
VSP-HDW2×4E*-4T	2	4	1.8	48	11	37.7	5.2	1.6 to 2.9	32
VSP-HDW2×4E*-6T			6						
VSP-HDW3.5×7E*-4T	3.5	7	1.8	48	11	37.7	5.2	1.6 to 2.9	32
VSP-HDW3.5×7E*-6T			6						
VSP-HDW4×10E*-4T	4	10	1.8	48	11	37.7	5.2	1.6 to 2.9	32
VSP-HDW4×10E*-6T			6						33
VSP-HDW4×20E*-4T		20	1.8						33
VSP-HDW4×20E*-6T			6						33
VSP-HDW4×30E*-4T		30	1.8						33
VSP-HDW4×30E*-6T			6						33
VSP-HDW5×10E*-4T	5	10	1.8	48	11	37.7	5.2	1.6 to 2.9	32
VSP-HDW5×10E*-6T			6						33
VSP-HDW5×20E*-4T		20	1.8						33
VSP-HDW5×20E*-6T			6						33
VSP-HDW5×30E*-4T		30	1.8						33
VSP-HDW5×30E*-6T			6						33
VSP-HDW6×10E*-4T	6	10	1.8	48	11	37.7	5.2	1.6 to 2.9	32
VSP-HDW6×10E*-6T			6						33
VSP-HDW6×20E*-4T		20	1.8						33
VSP-HDW6×20E*-6T			6						33
VSP-HDW6×30E*-4T		30	1.8						33
VSP-HDW6×30E*-6T			6						33
VSP-HDW8×20E*-4T	8	20	1.8	48	11	37.7	5.2	1.6 to 2.9	33
VSP-HDW8×20E*-6T			6						
VSP-HDW8×30E*-4T		30	1.8						
VSP-HDW8×30E*-6T			6						

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

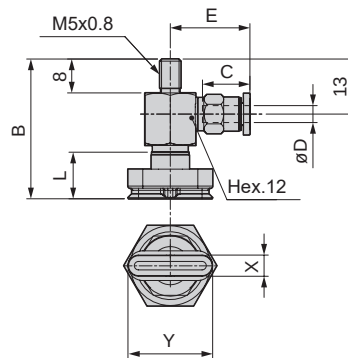
Thin object

Flat

Suction mark
prevention

Dimensions (lightweight, fixed, vacuum outlet, side, VSP-HE, push-in fitting)

●VSP-HE*E*-2/4/6

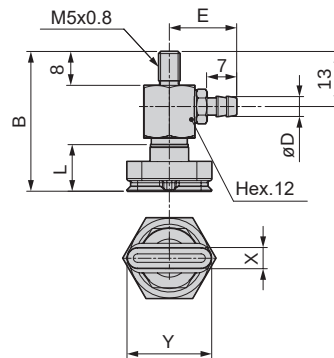


Unit: mm

	Model No.	Pad size		Bore size ØD	B	L	Tube end C	E	Weight (g)
		X	Y						
General/Deep/Compact	VSP-HE2×4E*-2	2	4	1.8	48	11	8.4	14.7	16
	VSP-HE2×4E*-4			4			11.2	18.8	17
	VSP-HE2×4E*-6			6			11.9	20.6	18
Sponge	VSP-HE3.5×7E*-2	3.5	7	1.8	48	11	8.4	14.7	16
	VSP-HE3.5×7E*-4			4			11.2	18.8	17
	VSP-HE3.5×7E*-6			6			11.9	20.6	18
Bellows	VSP-HE4×10E*-2	4	10	1.8	48	11	8.4	14.7	16
	VSP-HE4×10E*-4			4			11.2	18.8	17
	VSP-HE4×10E*-6			6			11.9	20.6	18
Multi-stage bellows	VSP-HE4×20E*-2	4	20	1.8	48	11	8.4	14.7	17
	VSP-HE4×20E*-4			4			11.2	18.8	18
	VSP-HE4×20E*-6			6			11.9	20.6	19
Oval	VSP-HE4×30E*-2	4	30	1.8	48	11	8.4	14.7	17
	VSP-HE4×30E*-4			4			11.2	18.8	18
	VSP-HE4×30E*-6			6			11.9	20.6	19
Soft	VSP-HE5×10E*-2	5	10	1.8	48	11	8.4	14.7	16
	VSP-HE5×10E*-4			4			11.2	18.8	17
	VSP-HE5×10E*-6			6			11.9	20.6	18
Soft bellows	VSP-HE5×20E*-2	5	20	1.8	48	11	8.4	14.7	17
	VSP-HE5×20E*-4			4			11.2	18.8	18
	VSP-HE5×20E*-6			6			11.9	20.6	19
Anti-slip	VSP-HE5×30E*-2	5	30	1.8	48	11	8.4	14.7	17
	VSP-HE5×30E*-4			4			11.2	18.8	18
	VSP-HE5×30E*-6			6			11.9	20.6	19
Thin object	VSP-HE6×10E*-2	6	10	1.8	48	11	8.4	14.7	16
	VSP-HE6×10E*-4			4			11.2	18.8	17
	VSP-HE6×10E*-6			6			11.9	20.6	18
Flat	VSP-HE6×20E*-2	6	20	1.8	48	11	8.4	14.7	17
	VSP-HE6×20E*-4			4			11.2	18.8	18
	VSP-HE6×20E*-6			6			11.9	20.6	19
Suction mark prevention	VSP-HE6×30E*-2	6	30	1.8	48	11	8.4	14.7	17
	VSP-HE6×30E*-4			4			11.2	18.8	18
	VSP-HE6×30E*-6			6			11.9	20.6	19
	VSP-HE8×20E*-2	8	20	1.8	48	11	8.4	14.7	17
	VSP-HE8×20E*-4			4			11.2	18.8	18
	VSP-HE8×20E*-6			6			11.9	20.6	19
	VSP-HE8×30E*-2	8	30	1.8	48	11	8.4	14.7	17
	VSP-HE8×30E*-4			4			11.2	18.8	18
	VSP-HE8×30E*-6			6			11.9	20.6	19

Dimensions (lightweight, fixed, vacuum outlet, side, VSP-HE, barbed fitting)

●VSP-HE*E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size øD	B	L	Weight (g)
	X	Y				
VSP-HE2×4E*-4T	2	4	1.8	48	11	16
VSP-HE2×4E*-6T			6			
VSP-HE3.5×7E*-4T	3.5	7	1.8	48	11	16
VSP-HE3.5×7E*-6T			6			
VSP-HE4×10E*-4T	4	10	1.8	48	11	16
VSP-HE4×10E*-6T			6			
VSP-HE4×20E*-4T		20	1.8			17
VSP-HE4×20E*-6T			6			
VSP-HE4×30E*-4T		30	1.8			17
VSP-HE4×30E*-6T			6			
VSP-HE5×10E*-4T	5	10	1.8	48	11	16
VSP-HE5×10E*-6T			6			
VSP-HE5×20E*-4T		20	1.8			17
VSP-HE5×20E*-6T			6			
VSP-HE5×30E*-4T		30	1.8			17
VSP-HE5×30E*-6T			6			
VSP-HE6×10E*-4T	6	10	1.8	48	11	16
VSP-HE6×10E*-6T			6			
VSP-HE6×20E*-4T		20	1.8			17
VSP-HE6×20E*-6T			6			
VSP-HE6×30E*-4T		30	1.8			17
VSP-HE6×30E*-6T			6			
VSP-HE8×20E*-4T	8	20	1.8	48	11	17
VSP-HE8×20E*-6T			6			
VSP-HE8×30E*-4T		30	1.8			
VSP-HE8×30E*-6T			6			

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

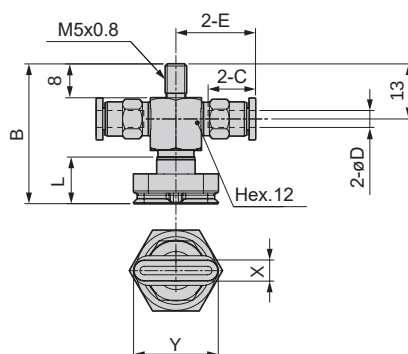
Thin object

Flat

Suction mark
prevention

Dimensions (lightweight, fixed, vacuum outlet, both sides, VSP-HEW, push-in fitting)

●VSP-HEW*E*-2/4/6

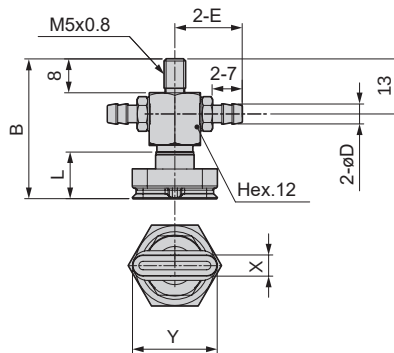


Unit: mm

	Model No.	Pad size		Bore size ϕD	B	L	Tube end C	E	Weight (g)
		X	Y						
General/Deep/Compact	VSP-HEW2×4E*-2	2	4	1.8	48	11	8.4	14.7	17
	VSP-HEW2×4E*-4			4			11.2	18.8	19
	VSP-HEW2×4E*-6			6			11.9	20.6	21
Sponge	VSP-HEW3.5×7E*-2	3.5	7	1.8	48	11	8.4	14.7	17
	VSP-HEW3.5×7E*-4			4			11.2	18.8	19
	VSP-HEW3.5×7E*-6			6			11.9	20.6	21
Bellows	VSP-HEW4×10E*-2	4	10	1.8	48	11	8.4	14.7	17
	VSP-HEW4×10E*-4			4			11.2	18.8	19
	VSP-HEW4×10E*-6			6			11.9	20.6	21
Multi-stage bellows	VSP-HEW4×20E*-2	4	20	1.8	48	11	8.4	14.7	18
	VSP-HEW4×20E*-4			4			11.2	18.8	20
	VSP-HEW4×20E*-6			6			11.9	20.6	22
Oval	VSP-HEW4×30E*-2	4	30	1.8	48	11	8.4	14.7	18
	VSP-HEW4×30E*-4			4			11.2	18.8	20
	VSP-HEW4×30E*-6			6			11.9	20.6	22
Soft	VSP-HEW5×10E*-2	5	10	1.8	48	11	8.4	14.7	17
	VSP-HEW5×10E*-4			4			11.2	18.8	19
	VSP-HEW5×10E*-6			6			11.9	20.6	21
Soft bellows	VSP-HEW5×20E*-2	5	20	1.8	48	11	8.4	14.7	18
	VSP-HEW5×20E*-4			4			11.2	18.8	20
	VSP-HEW5×20E*-6			6			11.9	20.6	22
Anti-slip	VSP-HEW5×30E*-2	5	30	1.8	48	11	8.4	14.7	18
	VSP-HEW5×30E*-4			4			11.2	18.8	20
	VSP-HEW5×30E*-6			6			11.9	20.6	22
Thin object	VSP-HEW6×10E*-2	6	10	1.8	48	11	8.4	14.7	17
	VSP-HEW6×10E*-4			4			11.2	18.8	19
	VSP-HEW6×10E*-6			6			11.9	20.6	21
Flat	VSP-HEW6×20E*-2	6	20	1.8	48	11	8.4	14.7	18
	VSP-HEW6×20E*-4			4			11.2	18.8	20
	VSP-HEW6×20E*-6			6			11.9	20.6	22
Suction mark prevention	VSP-HEW6×30E*-2	6	30	1.8	48	11	8.4	14.7	18
	VSP-HEW6×30E*-4			4			11.2	18.8	20
	VSP-HEW6×30E*-6			6			11.9	20.6	22
	VSP-HEW8×20E*-2	8	20	1.8	48	11	8.4	14.7	18
	VSP-HEW8×20E*-4			4			11.2	18.8	20
	VSP-HEW8×20E*-6			6			11.9	20.6	22
	VSP-HEW8×30E*-2	8	30	1.8	48	11	8.4	14.7	18
	VSP-HEW8×30E*-4			4			11.2	18.8	20
	VSP-HEW8×30E*-6			6			11.9	20.6	22

Dimensions (lightweight, fixed, vacuum outlet, both sides, VSP-HEW, barbed fitting)

●VSP-HEW*E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size øD	B	L	Weight (g)
	X	Y				
VSP-HEW2×4E*-4T	2	4	1.8	48	11	17
VSP-HEW2×4E*-6T			6			
VSP-HEW3.5×7E*-4T	3.5	7	1.8	48	11	17
VSP-HEW3.5×7E*-6T			6			
VSP-HEW4×10E*-4T	4	10	1.8	48	11	17
VSP-HEW4×10E*-6T			6			
VSP-HEW4×20E*-4T		20	1.8			18
VSP-HEW4×20E*-6T			6			
VSP-HEW4×30E*-4T		30	1.8			18
VSP-HEW4×30E*-6T			6			
VSP-HEW5×10E*-4T	5	10	1.8	48	11	17
VSP-HEW5×10E*-6T			6			
VSP-HEW5×20E*-4T		20	1.8			18
VSP-HEW5×20E*-6T			6			
VSP-HEW5×30E*-4T		30	1.8			18
VSP-HEW5×30E*-6T			6			
VSP-HEW6×10E*-4T	6	10	1.8	48	11	17
VSP-HEW6×10E*-6T			6			
VSP-HEW6×20E*-4T		20	1.8			18
VSP-HEW6×20E*-6T			6			
VSP-HEW6×30E*-4T		30	1.8			18
VSP-HEW6×30E*-6T			6			
VSP-HEW8×20E*-4T	8	20	1.8	48	11	18
VSP-HEW8×20E*-6T			6			
VSP-HEW8×30E*-4T		30	1.8			18
VSP-HEW8×30E*-6T			6			

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

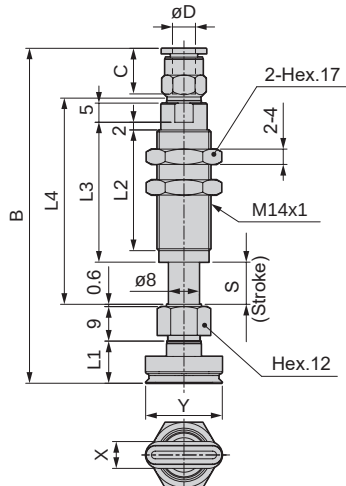
Thin object

Flat

Suction mark
prevention

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

- VSP-LFC2×4-□E*-4/6
- VSP-LFC3.5×7-□E*-4/6
- VSP-LFC4×*-□E*-4/6



Unit: mm

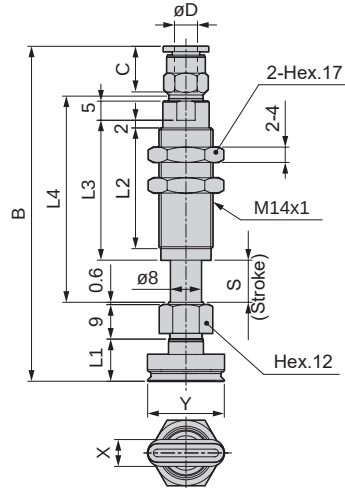
	Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
		X	Y										
General/Deep/ Compact	VSP-LFC2×4-5E*-4	2	4	4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	53
	VSP-LFC2×4-5E*-6			6	77.4					11.9			54
	VSP-LFC2×4-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	55
Sponge	VSP-LFC2×4-10E*-6			6	87.4					11.9			56
	VSP-LFC2×4-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	58
	VSP-LFC2×4-15E*-6			6	97.4					11.9			59
Bellows	VSP-LFC2×4-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	61
	VSP-LFC2×4-20E*-6			6	107.4					11.9			62
Multi-stage bellows	VSP-LFC3.5×7-5E*-4			4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	53
	VSP-LFC3.5×7-5E*-6	3.5	7	6	77.4					11.9			54
	VSP-LFC3.5×7-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	55
	VSP-LFC3.5×7-10E*-6			6	87.4					11.9			56
	VSP-LFC3.5×7-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	58
	VSP-LFC3.5×7-15E*-6			6	97.4					11.9			59
	VSP-LFC3.5×7-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	61
	VSP-LFC3.5×7-20E*-6			6	107.4					11.9			62
Soft	VSP-LFC4×10-5E*-4	4	10	4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	53
	VSP-LFC4×10-5E*-6			6	77.4					11.9			54
	VSP-LFC4×10-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	55
Soft bellows	VSP-LFC4×10-10E*-6			6	87.4					11.9			56
	VSP-LFC4×10-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	58
	VSP-LFC4×10-15E*-6			6	97.4					11.9			59
Anti-slip	VSP-LFC4×10-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	61
	VSP-LFC4×10-20E*-6			6	107.4					11.9			62
Thin object	VSP-LFC4×20-5E*-4		20	4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	54
	VSP-LFC4×20-5E*-6			6	77.4					11.9			55
	VSP-LFC4×20-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	56
	VSP-LFC4×20-10E*-6			6	87.4					11.9			57
	VSP-LFC4×20-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	59
	VSP-LFC4×20-15E*-6			6	97.4					11.9			60
Flat	VSP-LFC4×20-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	62
	VSP-LFC4×20-20E*-6			6	107.4					11.9			63
Suction mark prevention	VSP-LFC4×30-5E*-4		30	4	76.1		26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	54
	VSP-LFC4×30-5E*-6			6	77.4					11.9			55
	VSP-LFC4×30-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	56
	VSP-LFC4×30-10E*-6			6	87.4					11.9			57
	VSP-LFC4×30-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	59
	VSP-LFC4×30-15E*-6			6	97.4					11.9			60
	VSP-LFC4×30-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	62
	VSP-LFC4×30-20E*-6			6	107.4					11.9			63

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC5×*-□E*-4/6

●VSP-LFC6×*-□E*-4/6



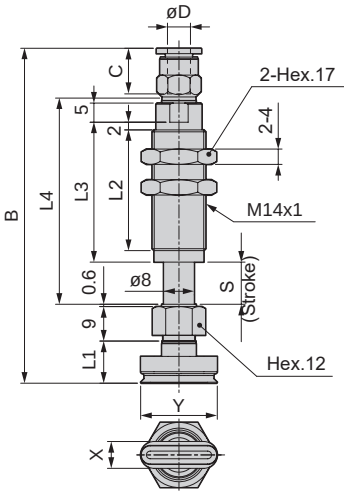
Unit: mm

Model No.	Pad size		Bore size ØD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)	
	X	Y											
VSP-LFC5×10-5E*-4	5	10	4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5	53	General/Deep/Compact
VSP-LFC5×10-5E*-6			6	77.4					11.9		[1.13 to 1.63]	54	
VSP-LFC5×10-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2	55	Sponge
VSP-LFC5×10-10E*-6			6	87.4					11.9		[1.13 to 2.05]	56	
VSP-LFC5×10-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9	58	Bellows
VSP-LFC5×10-15E*-6			6	97.4					11.9		[1.13 to 2.48]	59	
VSP-LFC5×10-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9	61	Multi-stage bellows
VSP-LFC5×10-20E*-6			6	107.4					11.9		[1.13 to 3.73]	62	
VSP-LFC5×20-5E*-4		20	4	76.1		26.5	31.5	42.5	11.2	5	4.5 to 6.5	54	Oval
VSP-LFC5×20-5E*-6			6	77.4					11.9		[1.13 to 1.63]	55	
VSP-LFC5×20-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2	56	Soft bellows
VSP-LFC5×20-10E*-6			6	87.4					11.9		[1.13 to 2.05]	57	
VSP-LFC5×20-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9	59	Anti-slip
VSP-LFC5×20-15E*-6			6	97.4					11.9		[1.13 to 2.48]	60	
VSP-LFC5×20-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9	62	Thin object
VSP-LFC5×20-20E*-6			6	107.4					11.9		[1.13 to 3.73]	63	
VSP-LFC5×30-5E*-4		30	4	76.1		26.5	31.5	42.5	11.2	5	4.5 to 6.5	54	Flat
VSP-LFC5×30-5E*-6			6	77.4					11.9		[1.13 to 1.63]	55	
VSP-LFC5×30-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2	56	Suction mark prevention
VSP-LFC5×30-10E*-6			6	87.4					11.9		[1.13 to 2.05]	57	
VSP-LFC5×30-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9	59	
VSP-LFC5×30-15E*-6			6	97.4					11.9		[1.13 to 2.48]	60	
VSP-LFC5×30-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9	62	
VSP-LFC5×30-20E*-6			6	107.4					11.9		[1.13 to 3.73]	63	
VSP-LFC6×10-5E*-4	6	10	4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5	53	Soft bellows
VSP-LFC6×10-5E*-6			6	77.4					11.9		[1.13 to 1.63]	54	
VSP-LFC6×10-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2	55	Anti-slip
VSP-LFC6×10-10E*-6			6	87.4					11.9		[1.13 to 2.05]	56	
VSP-LFC6×10-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9	58	Thin object
VSP-LFC6×10-15E*-6			6	97.4					11.9		[1.13 to 2.48]	59	
VSP-LFC6×10-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9	61	Flat
VSP-LFC6×10-20E*-6			6	107.4					11.9		[1.13 to 3.73]	62	
VSP-LFC6×20-5E*-4		20	4	76.1		26.5	31.5	42.5	11.2	5	4.5 to 6.5	54	Suction mark prevention
VSP-LFC6×20-5E*-6			6	77.4					11.9		[1.13 to 1.63]	55	
VSP-LFC6×20-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2	56	
VSP-LFC6×20-10E*-6			6	87.4					11.9		[1.13 to 2.05]	57	
VSP-LFC6×20-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9	59	
VSP-LFC6×20-15E*-6			6	97.4					11.9		[1.13 to 2.48]	60	
VSP-LFC6×20-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9	62	
VSP-LFC6×20-20E*-6			6	107.4					11.9		[1.13 to 3.73]	63	
VSP-LFC6×30-5E*-4		30	4	76.1		26.5	31.5	42.5	11.2	5	4.5 to 6.5	54	
VSP-LFC6×30-5E*-6			6	77.4					11.9		[1.13 to 1.63]	55	
VSP-LFC6×30-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2	56	
VSP-LFC6×30-10E*-6			6	87.4					11.9		[1.13 to 2.05]	57	
VSP-LFC6×30-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9	59	
VSP-LFC6×30-15E*-6			6	97.4					11.9		[1.13 to 2.48]	60	
VSP-LFC6×30-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9	62	
VSP-LFC6×30-20E*-6			6	107.4					11.9		[1.13 to 3.73]	63	

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, push-in fitting)

●VSP-LFC8×*-□E*-4/6

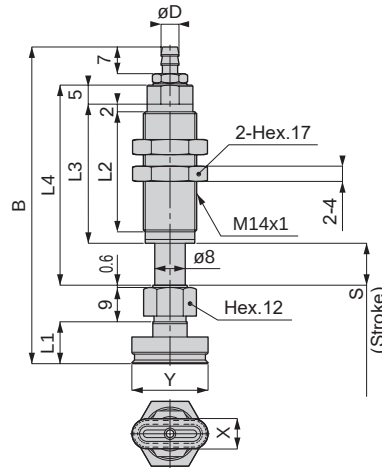


Unit: mm												
Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
	X	Y										
VSP-LFC8×20-5E*-4	8	20	4	76.1	11	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	54
VSP-LFC8×20-5E*-6			6	77.4					11.9			55
VSP-LFC8×20-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	56
VSP-LFC8×20-10E*-6			6	87.4					11.9			57
VSP-LFC8×20-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	59
VSP-LFC8×20-15E*-6			6	97.4					11.9			60
VSP-LFC8×20-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	62
VSP-LFC8×20-20E*-6			6	107.4					11.9			63
VSP-LFC8×30-5E*-4		30	4	76.1		26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	54
VSP-LFC8×30-5E*-6			6	77.4					11.9			55
VSP-LFC8×30-10E*-4			4	86.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	56
VSP-LFC8×30-10E*-6			6	87.4					11.9			57
VSP-LFC8×30-15E*-4			4	96.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	59
VSP-LFC8×30-15E*-6			6	97.4					11.9			60
VSP-LFC8×30-20E*-4			4	106.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	62
VSP-LFC8×30-20E*-6			6	107.4					11.9			63

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

- VSP-LFC2×4-□E*-4T/6T
- VSP-LFC3.5×7-□E*-4T/6T
- VSP-LFC4×*-□E*-4T/6T



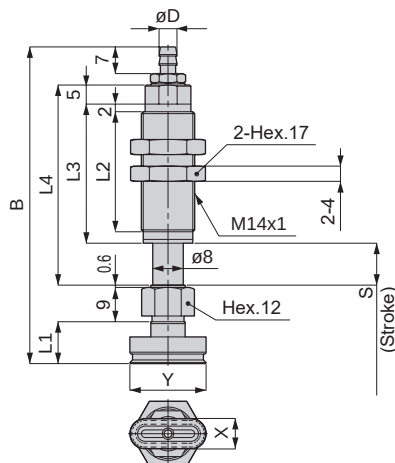
Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
	X	Y									
VSP-LFC2×4-5E*-4T	2	4	2.5	73.2	11	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	48
VSP-LFC2×4-5E*-6T			4								
VSP-LFC2×4-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	50
VSP-LFC2×4-10E*-6T			4								
VSP-LFC2×4-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	53
VSP-LFC2×4-15E*-6T			4								
VSP-LFC2×4-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	56
VSP-LFC2×4-20E*-6T			4								
VSP-LFC3.5×7-5E*-4T	3.5	7	2.5	73.2	11	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	48
VSP-LFC3.5×7-5E*-6T			4								
VSP-LFC3.5×7-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	50
VSP-LFC3.5×7-10E*-6T			4								
VSP-LFC3.5×7-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	53
VSP-LFC3.5×7-15E*-6T			4								
VSP-LFC3.5×7-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	56
VSP-LFC3.5×7-20E*-6T			4								
VSP-LFC4×10-5E*-4T	4	10	2.5	73.2	11	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	48
VSP-LFC4×10-5E*-6T			4								
VSP-LFC4×10-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	50
VSP-LFC4×10-10E*-6T			4								
VSP-LFC4×10-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	53
VSP-LFC4×10-15E*-6T			4								
VSP-LFC4×10-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	56
VSP-LFC4×10-20E*-6T			4								
VSP-LFC4×20-5E*-4T		20	2.5	73.2		26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	49
VSP-LFC4×20-5E*-6T			4								
VSP-LFC4×20-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	51
VSP-LFC4×20-10E*-6T			4								
VSP-LFC4×20-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	54
VSP-LFC4×20-15E*-6T			4								
VSP-LFC4×20-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	57
VSP-LFC4×20-20E*-6T			4								
VSP-LFC4×30-5E*-4T		30	2.5	73.2		26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	49
VSP-LFC4×30-5E*-6T			4								
VSP-LFC4×30-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	51
VSP-LFC4×30-10E*-6T			4								
VSP-LFC4×30-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	54
VSP-LFC4×30-15E*-6T			4								
VSP-LFC4×30-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	57
VSP-LFC4×30-20E*-6T			4								

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, top, VSP-LFC, barbed fitting)

- VSP-LFC5*-*E*-4T/6T
- VSP-LFC6*-*E*-4T/6T

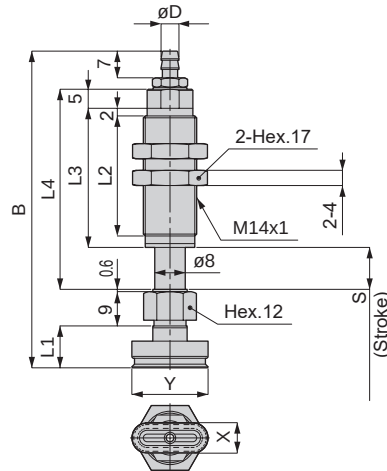


Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)		
		X	Y											
General/Deep/ Compact	VSP-LFC5×10-5E*-4T	5	10	2.5	73.2	11	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	48		
	VSP-LFC5×10-5E*-6T			4							4.5 to 8.2 [1.13 to 2.05]			
	VSP-LFC5×10-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 9.9 [1.13 to 2.48]			
	VSP-LFC5×10-10E*-6T			4								4.5 to 14.9 [1.13 to 3.73]		
Sponge	VSP-LFC5×10-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 14.9 [1.13 to 3.73]			
	VSP-LFC5×10-15E*-6T			4								4.5 to 6.5 [1.13 to 1.63]		
	VSP-LFC5×10-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 8.2 [1.13 to 2.05]			
	VSP-LFC5×10-20E*-6T			4								4.5 to 9.9 [1.13 to 2.48]		
Bellows	VSP-LFC5×20-5E*-4T		20	2.5	73.2		11	26.5	31.5	42.5	5	4.5 to 8.2 [1.13 to 2.05]	49	
	VSP-LFC5×20-5E*-6T			4										4.5 to 9.9 [1.13 to 2.48]
	VSP-LFC5×20-10E*-4T			2.5	83.2			31.5	36.5	52.5	10	4.5 to 14.9 [1.13 to 3.73]		
	VSP-LFC5×20-10E*-6T			4									4.5 to 6.5 [1.13 to 1.63]	
Multi-stage bellows	VSP-LFC5×20-15E*-4T			2.5	93.2			36.5	41.5	62.5	15	4.5 to 8.2 [1.13 to 2.05]	51	
	VSP-LFC5×20-15E*-6T			4										4.5 to 9.9 [1.13 to 2.48]
	VSP-LFC5×20-20E*-4T			2.5	103.2			41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]		
	VSP-LFC5×20-20E*-6T			4									4.5 to 6.5 [1.13 to 1.63]	
Oval	VSP-LFC5×30-5E*-4T		30	2.5	73.2			11	26.5	31.5	42.5	5	4.5 to 8.2 [1.13 to 2.05]	49
	VSP-LFC5×30-5E*-6T			4										
	VSP-LFC5×30-10E*-4T			2.5	83.2				31.5	36.5	52.5	10	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC5×30-10E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
Soft	VSP-LFC5×30-15E*-4T			2.5	93.2				36.5	41.5	62.5	15	4.5 to 8.2 [1.13 to 2.05]	51
	VSP-LFC5×30-15E*-6T			4										
	VSP-LFC5×30-20E*-4T			2.5	103.2				41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC5×30-20E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
Soft bellows	VSP-LFC6×10-5E*-4T	6	10	2.5	73.2	11			26.5	31.5	42.5	5	4.5 to 8.2 [1.13 to 2.05]	48
	VSP-LFC6×10-5E*-6T			4										
	VSP-LFC6×10-10E*-4T			2.5	83.2				31.5	36.5	52.5	10	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC6×10-10E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
Anti-slip	VSP-LFC6×10-15E*-4T			2.5	93.2				36.5	41.5	62.5	15	4.5 to 8.2 [1.13 to 2.05]	53
	VSP-LFC6×10-15E*-6T			4										
	VSP-LFC6×10-20E*-4T			2.5	103.2				41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC6×10-20E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
Thin object	VSP-LFC6×20-5E*-4T		20	2.5	73.2		11		26.5	31.5	42.5	5	4.5 to 8.2 [1.13 to 2.05]	49
	VSP-LFC6×20-5E*-6T			4										
	VSP-LFC6×20-10E*-4T			2.5	83.2				31.5	36.5	52.5	10	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC6×20-10E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
Flat	VSP-LFC6×20-15E*-4T			2.5	93.2				36.5	41.5	62.5	15	4.5 to 8.2 [1.13 to 2.05]	51
	VSP-LFC6×20-15E*-6T			4										
	VSP-LFC6×20-20E*-4T			2.5	103.2				41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC6×20-20E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
Suction mark prevention	VSP-LFC6×30-5E*-4T		30	2.5	73.2			11	26.5	31.5	42.5	5	4.5 to 8.2 [1.13 to 2.05]	49
	VSP-LFC6×30-5E*-6T			4										
	VSP-LFC6×30-10E*-4T			2.5	83.2				31.5	36.5	52.5	10	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC6×30-10E*-6T			4										4.5 to 6.5 [1.13 to 1.63]
	VSP-LFC6×30-15E*-4T			2.5	93.2				36.5	41.5	62.5	15	4.5 to 8.2 [1.13 to 2.05]	54
	VSP-LFC6×30-15E*-6T			4										
	VSP-LFC6×30-20E*-4T			2.5	103.2				41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	
	VSP-LFC6×30-20E*-6T			4										4.5 to 6.5 [1.13 to 1.63]

*1: Values in [] are for low load.

●VSP-LFC8×*-[]E*-4T/6T

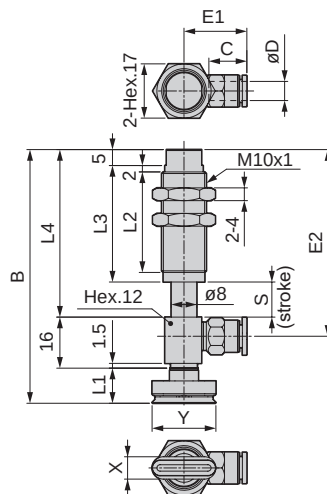


Model No.	Pad size		Bore size ϕD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
	X	Y									
VSP-LFC8×20-5E*-4T	8	20	2.5	73.2	11	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	49
VSP-LFC8×20-5E*-6T			4								
VSP-LFC8×20-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	51
VSP-LFC8×20-10E*-6T			4								
VSP-LFC8×20-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	54
VSP-LFC8×20-15E*-6T			4								
VSP-LFC8×20-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	57
VSP-LFC8×20-20E*-6T			4								
VSP-LFC8×30-5E*-4T		30	2.5	73.2		26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	49
VSP-LFC8×30-5E*-6T			4								
VSP-LFC8×30-10E*-4T			2.5	83.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	51
VSP-LFC8×30-10E*-6T			4								
VSP-LFC8×30-15E*-4T			2.5	93.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	54
VSP-LFC8×30-15E*-6T			4								
VSP-LFC8×30-20E*-4T			2.5	103.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	57
VSP-LFC8×30-20E*-6T			4								

*1: Values in [] are for low load.

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

- VSP-LFD2×4-□E*-4/6
- VSP-LFD3.5×7-□E*-4/6
- VSP-LFD4×*-□E*-4/6



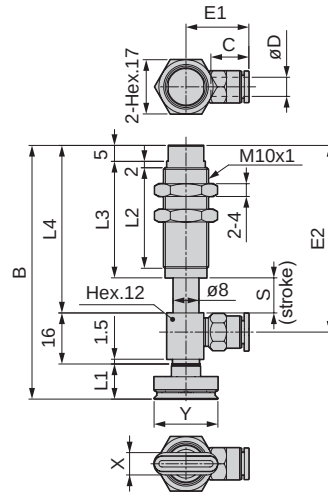
Unit: mm

	Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
		X	Y												
General/Deep/ Compact	VSP-LFD2×4-5E*-4	2	4	4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	50
	VSP-LFD2×4-5E*-6			6						11.9	19.7				
Sponge	VSP-LFD2×4-10E*-4			4						11.2	18.4		10	4.5 to 8.2	53
	VSP-LFD2×4-10E*-6			6						11.9	19.7				
Bellows	VSP-LFD2×4-15E*-4			4						11.2	18.4	68.5	15	4.5 to 9.9	57
	VSP-LFD2×4-15E*-6			6						11.9	19.7				
Multi-stage bellows	VSP-LFD2×4-20E*-4			4						11.2	18.4	78.5	20	4.5 to 14.9	61
	VSP-LFD2×4-20E*-6			6						11.9	19.7				
Oval	VSP-LFD3.5×7-5E*-4	3.5	7	4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	50
	VSP-LFD3.5×7-5E*-6			6						11.9	19.7				
	VSP-LFD3.5×7-10E*-4			4						11.2	18.4		10	4.5 to 8.2	53
	VSP-LFD3.5×7-10E*-6			6						11.9	19.7				
	VSP-LFD3.5×7-15E*-4			4						11.2	18.4	68.5	15	4.5 to 9.9	57
	VSP-LFD3.5×7-15E*-6			6						11.9	19.7				
	VSP-LFD3.5×7-20E*-4			4						11.2	18.4	78.5	20	4.5 to 14.9	61
	VSP-LFD3.5×7-20E*-6			6						11.9	19.7				
Soft bellows	VSP-LFD4×10-5E*-4			4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	50
	VSP-LFD4×10-5E*-6			6						11.9	19.7				
	VSP-LFD4×10-10E*-4			4						11.2	18.4	58.5	10	4.5 to 8.2	53
	VSP-LFD4×10-10E*-6			6						11.9	19.7				
	VSP-LFD4×10-15E*-4			4						11.2	18.4	68.5	15	4.5 to 9.9	57
	VSP-LFD4×10-15E*-6			6						11.9	19.7				
	VSP-LFD4×10-20E*-4			4						11.2	18.4	78.5	20	4.5 to 14.9	61
	VSP-LFD4×10-20E*-6			6						11.9	19.7				
Anti-slip	VSP-LFD4×20-5E*-4			4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
	VSP-LFD4×20-5E*-6			6						11.9	19.7				
	VSP-LFD4×20-10E*-4			4						11.2	18.4	58.5	10	4.5 to 8.2	54
	VSP-LFD4×20-10E*-6			6						11.9	19.7				
Thin object	VSP-LFD4×20-15E*-4	4	20	4	89.5	11	36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	58
	VSP-LFD4×20-15E*-6			6						11.9	19.7				
	VSP-LFD4×20-20E*-4			4						11.2	18.4	78.5	20	4.5 to 14.9	62
	VSP-LFD4×20-20E*-6			6						11.9	19.7				
Flat	VSP-LFD4×30-5E*-4			4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
	VSP-LFD4×30-5E*-6			6						11.9	19.7				
	VSP-LFD4×30-10E*-4			4						11.2	18.4	58.5	10	4.5 to 8.2	54
	VSP-LFD4×30-10E*-6			6						11.9	19.7				
	VSP-LFD4×30-15E*-4			4						11.2	18.4	68.5	15	4.5 to 9.9	58
	VSP-LFD4×30-15E*-6			6						11.9	19.7				
	VSP-LFD4×30-20E*-4			4						11.2	18.4	78.5	20	4.5 to 14.9	62
	VSP-LFD4×30-20E*-6			6						11.9	19.7				
Suction mark prevention	VSP-LFD4×30-5E*-4			4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
	VSP-LFD4×30-5E*-6			6						11.9	19.7				
	VSP-LFD4×30-10E*-4			4						11.2	18.4	58.5	10	4.5 to 8.2	54
	VSP-LFD4×30-10E*-6			6						11.9	19.7				
	VSP-LFD4×30-15E*-4			4						11.2	18.4	68.5	15	4.5 to 9.9	58
	VSP-LFD4×30-15E*-6			6						11.9	19.7				
	VSP-LFD4×30-20E*-4			4						11.2	18.4	78.5	20	4.5 to 14.9	62
	VSP-LFD4×30-20E*-6			6						11.9	19.7				

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD5×*-□E*-4/6

●VSP-LFD6×*-□E*-4/6



Unit: mm

Model No.	Pad size		Bore size ØD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
	X	Y												
VSP-LFD5×10-5E*-4	5	10	4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	50
VSP-LFD5×10-5E*-6			6						11.9	19.7				
VSP-LFD5×10-10E*-4			4						11.2	18.4		10	4.5 to 8.2	53
VSP-LFD5×10-10E*-6			6						11.9	19.7				
VSP-LFD5×10-15E*-4			4						11.2	18.4		15	4.5 to 9.9	57
VSP-LFD5×10-15E*-6			6						11.9	19.7				
VSP-LFD5×10-20E*-4			4						11.2	18.4		20	4.5 to 14.9	61
VSP-LFD5×10-20E*-6			6						11.9	19.7				
VSP-LFD5×20-5E*-4		20	4			26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
VSP-LFD5×20-5E*-6			6						11.9	19.7				
VSP-LFD5×20-10E*-4			4						11.2	18.4		10	4.5 to 8.2	54
VSP-LFD5×20-10E*-6			6						11.9	19.7				
VSP-LFD5×20-15E*-4			4						11.2	18.4		15	4.5 to 9.9	58
VSP-LFD5×20-15E*-6			6						11.9	19.7				
VSP-LFD5×20-20E*-4			4						11.2	18.4		20	4.5 to 14.9	62
VSP-LFD5×20-20E*-6			6						11.9	19.7				
VSP-LFD5×30-5E*-4		30	4			26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
VSP-LFD5×30-5E*-6			6						11.9	19.7				
VSP-LFD5×30-10E*-4			4						11.2	18.4		10	4.5 to 8.2	54
VSP-LFD5×30-10E*-6			6						11.9	19.7				
VSP-LFD5×30-15E*-4			4						11.2	18.4		15	4.5 to 9.9	58
VSP-LFD5×30-15E*-6			6						11.9	19.7				
VSP-LFD5×30-20E*-4			4						11.2	18.4		20	4.5 to 14.9	62
VSP-LFD5×30-20E*-6			6						11.9	19.7				
VSP-LFD6×10-5E*-4	6	10	4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	50
VSP-LFD6×10-5E*-6			6						11.9	19.7				
VSP-LFD6×10-10E*-4			4						11.2	18.4		10	4.5 to 8.2	53
VSP-LFD6×10-10E*-6			6						11.9	19.7				
VSP-LFD6×10-15E*-4			4						11.2	18.4		15	4.5 to 9.9	57
VSP-LFD6×10-15E*-6			6						11.9	19.7				
VSP-LFD6×10-20E*-4			4						11.2	18.4		20	4.5 to 14.9	61
VSP-LFD6×10-20E*-6			6						11.9	19.7				
VSP-LFD6×20-5E*-4		20	4			26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
VSP-LFD6×20-5E*-6			6						11.9	19.7				
VSP-LFD6×20-10E*-4			4						11.2	18.4		10	4.5 to 8.2	54
VSP-LFD6×20-10E*-6			6						11.9	19.7				
VSP-LFD6×20-15E*-4			4						11.2	18.4		15	4.5 to 9.9	58
VSP-LFD6×20-15E*-6			6						11.9	19.7				
VSP-LFD6×20-20E*-4			4						11.2	18.4		20	4.5 to 14.9	62
VSP-LFD6×20-20E*-6			6						11.9	19.7				
VSP-LFD6×30-5E*-4		30	4			26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
VSP-LFD6×30-5E*-6			6						11.9	19.7				
VSP-LFD6×30-10E*-4			4						11.2	18.4		10	4.5 to 8.2	54
VSP-LFD6×30-10E*-6			6						11.9	19.7				
VSP-LFD6×30-15E*-4			4						11.2	18.4		15	4.5 to 9.9	58
VSP-LFD6×30-15E*-6			6						11.9	19.7				
VSP-LFD6×30-20E*-4			4						11.2	18.4		20	4.5 to 14.9	62
VSP-LFD6×30-20E*-6			6						11.9	19.7				

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

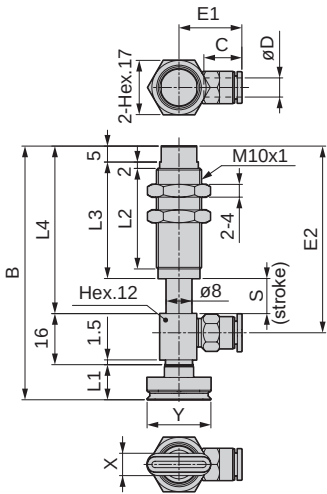
Thin object

Flat

Suction mark prevention

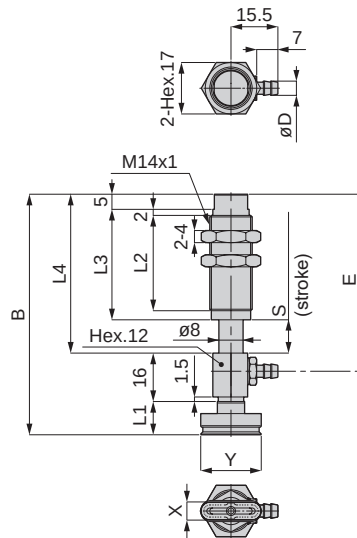
Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, push-in fitting)

●VSP-LFD8×*-□E*-4/6



Unit: mm														
Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
	X	Y												
VSP-LFD8×20-5E*-4	8	20	4	69.5	11	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
VSP-LFD8×20-5E*-6			6						11.9	19.7				
VSP-LFD8×20-10E*-4			4	79.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	54
VSP-LFD8×20-10E*-6			6						11.9	19.7				
VSP-LFD8×20-15E*-4			4	89.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	58
VSP-LFD8×20-15E*-6			6						11.9	19.7				
VSP-LFD8×20-20E*-4			4	99.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	62
VSP-LFD8×20-20E*-6			6						11.9	19.7				
VSP-LFD8×30-5E*-4		30	4	69.5		26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	51
VSP-LFD8×30-5E*-6			6						11.9	19.7				
VSP-LFD8×30-10E*-4			4	79.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	54
VSP-LFD8×30-10E*-6			6						11.9	19.7				
VSP-LFD8×30-15E*-4			4	89.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	58
VSP-LFD8×30-15E*-6			6						11.9	19.7				
VSP-LFD8×30-20E*-4			4	99.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	62
VSP-LFD8×30-20E*-6			6						11.9	19.7				

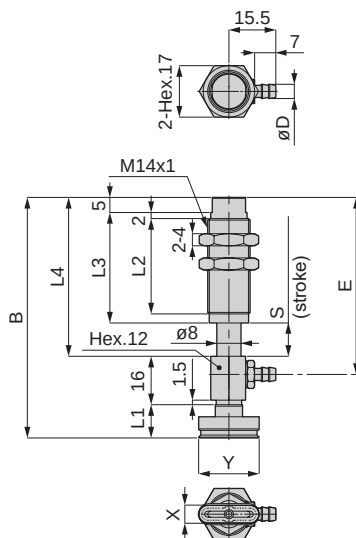
- VSP-LFD2×4-□E*-4T/6T
- VSP-LFD3.5×7-□E*-4T/6T
- VSP-LFD4×*-□E*-4T/6T



Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
	X	Y										
VSP-LFD2×4-5E*-4T	2	4	2.5	69.5	11	26.5	31.5	42.5	48.5	5	4.5 to 6.5	50
VSP-LFD2×4-5E*-6T			4									
VSP-LFD2×4-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	53
VSP-LFD2×4-10E*-6T			4									
VSP-LFD2×4-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	57
VSP-LFD2×4-15E*-6T			4									
VSP-LFD2×4-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	61
VSP-LFD2×4-20E*-6T			4									
VSP-LFD3.5×7-5E*-4T	3.5	7	2.5	69.5	11	26.5	31.5	42.5	48.5	5	4.5 to 6.5	50
VSP-LFD3.5×7-5E*-6T			4									
VSP-LFD3.5×7-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	53
VSP-LFD3.5×7-10E*-6T			4									
VSP-LFD3.5×7-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	57
VSP-LFD3.5×7-15E*-6T			4									
VSP-LFD3.5×7-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	61
VSP-LFD3.5×7-20E*-6T			4									
VSP-LFD4×10-5E*-4T	4	10	2.5	69.5	11	26.5	31.5	42.5	48.5	5	4.5 to 6.5	50
VSP-LFD4×10-5E*-6T			4									
VSP-LFD4×10-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	53
VSP-LFD4×10-10E*-6T			4									
VSP-LFD4×10-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	57
VSP-LFD4×10-15E*-6T			4									
VSP-LFD4×10-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	61
VSP-LFD4×10-20E*-6T			4									
VSP-LFD4×20-5E*-4T		20	2.5	69.5		26.5	31.5	42.5	48.5	5	4.5 to 6.5	51
VSP-LFD4×20-5E*-6T			4									
VSP-LFD4×20-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	54
VSP-LFD4×20-10E*-6T			4									
VSP-LFD4×20-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	58
VSP-LFD4×20-15E*-6T			4									
VSP-LFD4×20-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	62
VSP-LFD4×20-20E*-6T			4									
VSP-LFD4×30-5E*-4T		30	2.5	69.5		26.5	31.5	42.5	48.5	5	4.5 to 6.5	51
VSP-LFD4×30-5E*-6T			4									
VSP-LFD4×30-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	54
VSP-LFD4×30-10E*-6T			4									
VSP-LFD4×30-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	58
VSP-LFD4×30-15E*-6T			4									
VSP-LFD4×30-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	62
VSP-LFD4×30-20E*-6T			4									

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

- VSP-LFD5×*-□E*-4T/6T
- VSP-LFD6×*-□E*-4T/6T

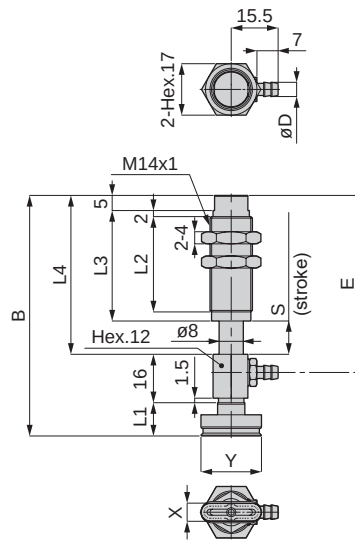


Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)																									
	X	Y																																			
VSP-LFD5×10-5E*-4T	5	10	2.5	69.5	11	26.5	31.5	42.5	48.5	5	4.5 to 6.5	50																									
VSP-LFD5×10-5E*-6T			4																																		
VSP-LFD5×10-10E*-4T			2.5										79.5	31.5	36.5	52.5	58.5	10	4.5 to 8.2	53																	
VSP-LFD5×10-10E*-6T			4																																		
VSP-LFD5×10-15E*-4T			2.5																		89.5	36.5	41.5	62.5	68.5	15	4.5 to 9.9	57									
VSP-LFD5×10-15E*-6T			4																																		
VSP-LFD5×10-20E*-4T			2.5																										99.5	41.5	46.5	72.5	78.5	20	4.5 to 14.9	61	
VSP-LFD5×10-20E*-6T			4																																		
VSP-LFD5×20-5E*-4T		2.5	69.5	26.5		31.5	42.5	48.5	5	4.5 to 6.5	51																										
VSP-LFD5×20-5E*-6T		4																																			
VSP-LFD5×20-10E*-4T		2.5										79.5	31.5	36.5	52.5	58.5	10	4.5 to 8.2	54																		
VSP-LFD5×20-10E*-6T		4																																			
VSP-LFD5×20-15E*-4T		2.5																		89.5	36.5	41.5	62.5	68.5	15	4.5 to 9.9	58										
VSP-LFD5×20-15E*-6T		4																																			
VSP-LFD5×20-20E*-4T		2.5																										99.5	41.5	46.5	72.5	78.5	20	4.5 to 14.9	62		
VSP-LFD5×20-20E*-6T		4																																			
VSP-LFD5×30-5E*-4T		2.5	69.5	26.5		31.5	42.5	48.5	5	4.5 to 6.5	51																										
VSP-LFD5×30-5E*-6T		4																																			
VSP-LFD5×30-10E*-4T		2.5										79.5	31.5	36.5	52.5	58.5	10	4.5 to 8.2	54																		
VSP-LFD5×30-10E*-6T		4																																			
VSP-LFD5×30-15E*-4T		2.5																		89.5	36.5	41.5	62.5	68.5	15	4.5 to 9.9	58										
VSP-LFD5×30-15E*-6T		4																																			
VSP-LFD5×30-20E*-4T		2.5																										99.5	41.5	46.5	72.5	78.5	20	4.5 to 14.9	62		
VSP-LFD5×30-20E*-6T		4																																			
VSP-LFD6×10-5E*-4T	2.5	6	10	2.5	69.5	11	26.5	31.5	42.5	48.5	5																									4.5 to 6.5	50
VSP-LFD6×10-5E*-6T	4																																				
VSP-LFD6×10-10E*-4T	2.5			79.5								31.5	36.5	52.5	58.5	10	4.5 to 8.2	53																			
VSP-LFD6×10-10E*-6T	4																																				
VSP-LFD6×10-15E*-4T	2.5																		89.5	36.5	41.5	62.5	68.5	15	4.5 to 9.9	57											
VSP-LFD6×10-15E*-6T	4																																				
VSP-LFD6×10-20E*-4T	2.5																										99.5	41.5	46.5	72.5	78.5	20	4.5 to 14.9	61			
VSP-LFD6×10-20E*-6T	4																																				
VSP-LFD6×20-5E*-4T	2.5		69.5		26.5		31.5	42.5	48.5	5	4.5 to 6.5																								51		
VSP-LFD6×20-5E*-6T	4																																				
VSP-LFD6×20-10E*-4T	2.5			79.5								31.5	36.5	52.5	58.5	10	4.5 to 8.2	54																			
VSP-LFD6×20-10E*-6T	4																																				
VSP-LFD6×20-15E*-4T	2.5																		89.5	36.5	41.5	62.5	68.5	15	4.5 to 9.9	58											
VSP-LFD6×20-15E*-6T	4																																				
VSP-LFD6×20-20E*-4T	2.5																										99.5	41.5	46.5	72.5	78.5	20	4.5 to 14.9	62			
VSP-LFD6×20-20E*-6T	4																																				
VSP-LFD6×30-5E*-4T	2.5		69.5		26.5		31.5	42.5	48.5	5	4.5 to 6.5																								51		
VSP-LFD6×30-5E*-6T	4																																				
VSP-LFD6×30-10E*-4T	2.5			79.5								31.5	36.5	52.5	58.5	10	4.5 to 8.2	54																			
VSP-LFD6×30-10E*-6T	4																																				
VSP-LFD6×30-15E*-4T	2.5																		89.5	36.5	41.5	62.5	68.5	15	4.5 to 9.9	58											
VSP-LFD6×30-15E*-6T	4																																				
VSP-LFD6×30-20E*-4T	2.5																										99.5	41.5	46.5	72.5	78.5	20	4.5 to 14.9	62			
VSP-LFD6×30-20E*-6T	4																																				

Dimensions (low dust generation, buffer, vacuum outlet, side, VSP-LFD, barbed fitting)

●VSP-LFD8×*E*-□E*-4T/6T



Unit: mm

Model No.	Pad size		Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
	X	Y										
VSP-LFD8×20-5E*-4T	8	20	2.5	69.5	11	26.5	31.5	42.5	48.5	5	4.5 to 6.5	51
VSP-LFD8×20-5E*-6T			4									
VSP-LFD8×20-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	54
VSP-LFD8×20-10E*-6T			4									
VSP-LFD8×20-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	58
VSP-LFD8×20-15E*-6T			4									
VSP-LFD8×20-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	62
VSP-LFD8×20-20E*-6T			4									
VSP-LFD8×30-5E*-4T		30	2.5	69.5		26.5	31.5	42.5	48.5	5	4.5 to 6.5	51
VSP-LFD8×30-5E*-6T			4									
VSP-LFD8×30-10E*-4T			2.5	79.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	54
VSP-LFD8×30-10E*-6T			4									
VSP-LFD8×30-15E*-4T			2.5	89.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	58
VSP-LFD8×30-15E*-6T			4									
VSP-LFD8×30-20E*-4T			2.5	99.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	62
VSP-LFD8×30-20E*-6T			4									

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

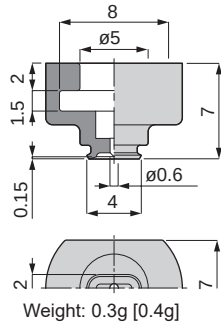
Thin object

Flat

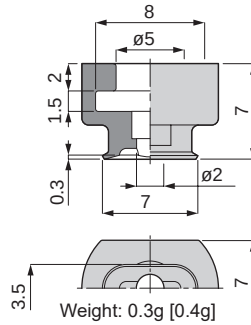
Suction mark
prevention

Dimensions: pad only

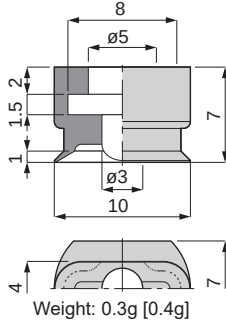
●VSPG-2×4E*



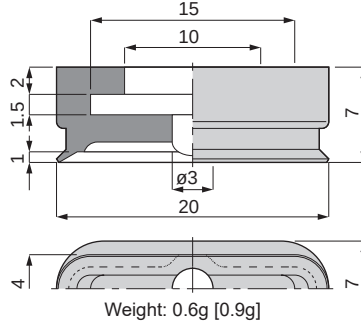
●VSPG-3.5×7E*



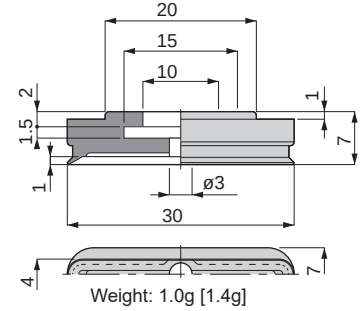
●VSPG-4×10E*



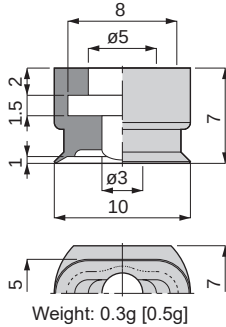
●VSPG-4×20E*



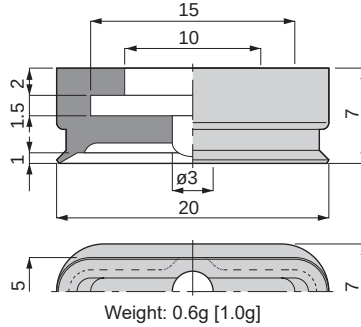
●VSPG-4×30E*



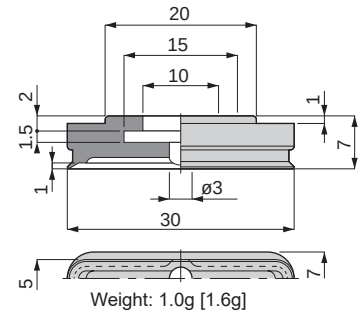
●VSPG-5×10E*



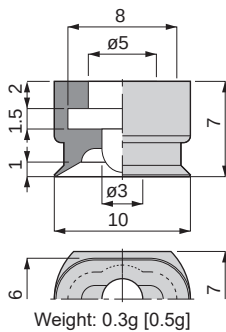
●VSPG-5×20E*



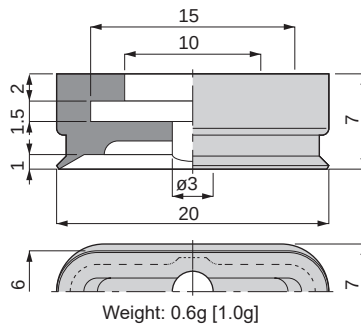
●VSPG-5×30E*



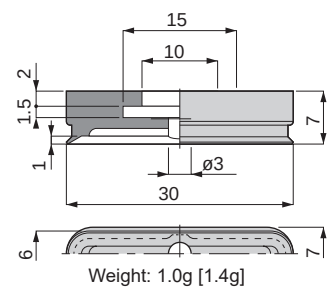
●VSPG-6×10E*



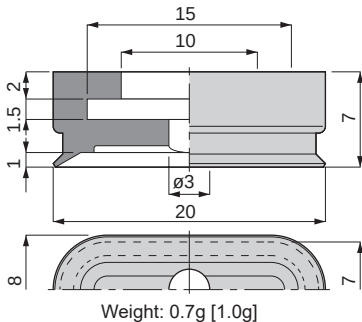
●VSPG-6×20E*



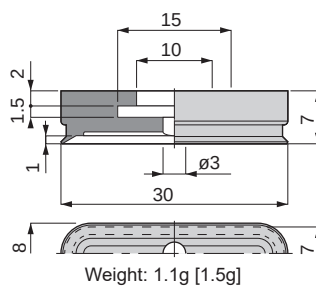
●VSPG-6×30E*



●VSPG-8×20E*

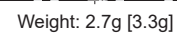
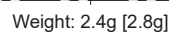
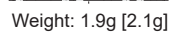
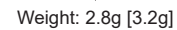
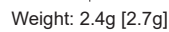
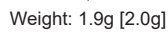
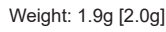
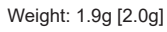


●VSPG-8×30E*



* Values in [] for fluoro rubber only.

●VSPG-2×4E*A

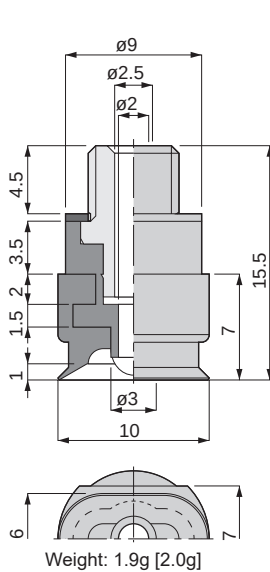


CKD

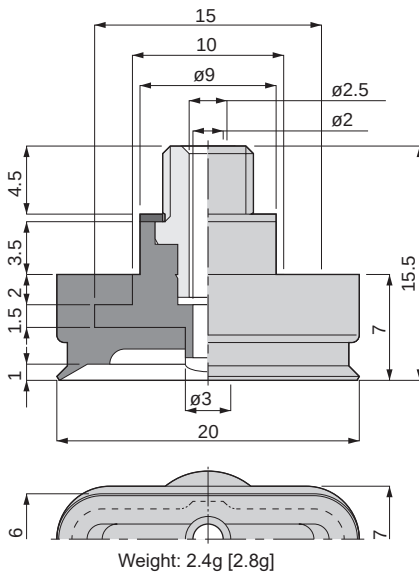
Suction mark

Pad screw Dimensions

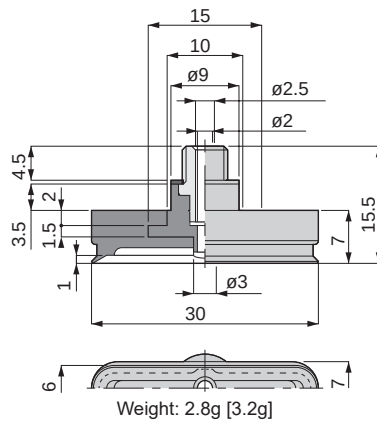
●VSPG-6×10E*A



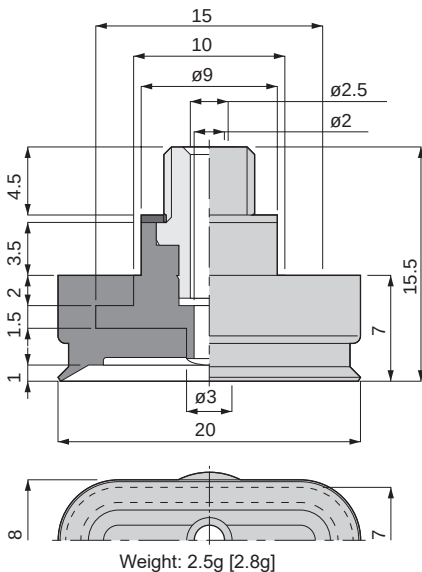
●VSPG-6×20E*A



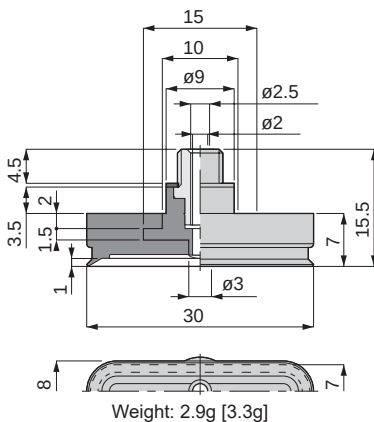
●VSPG-6×30E*A



●VSPG-8×20E*A



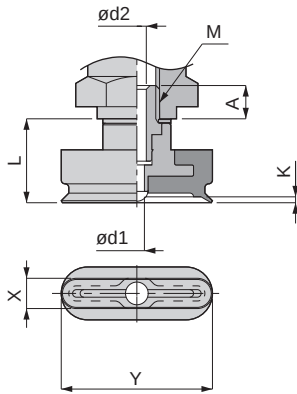
●VSPG-8×30E*A



* Values in [] for fluoro rubber only.

Detailed view of pad and holder connection

●VSPG-*E*A



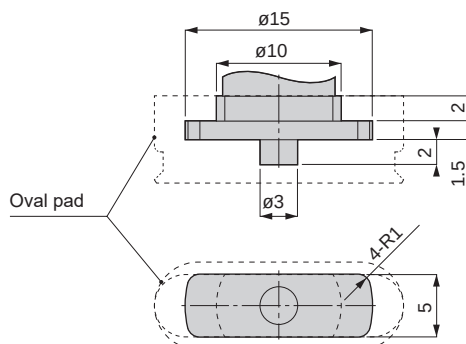
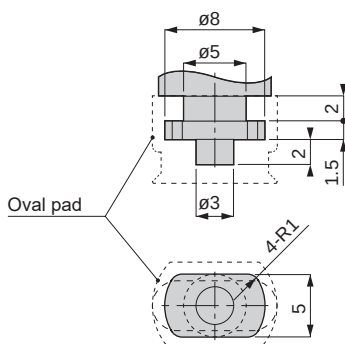
Unit: mm

Model No.	Pad size		Fixing screw M	A	Lip internal height K	L	ød1	ød2
	X	Y						
VSPG-2×4E*	2	4	-	-	0.15	-	-	-
VSPG-3.5×7E*	3.5	7	-	-	0.3	-	-	-
VSPG-4×10E*	4	10	-	-	0.8	-	-	-
VSPG-4×20E*		20						
VSPG-4×30E*		30						
VSPG-5×10E*	5	10	-	-	0.8	-	-	-
VSPG-5×20E*		20						
VSPG-5×30E*		30						
VSPG-6×10E*	6	10	-	-	1	-	-	-
VSPG-6×20E*		20						
VSPG-6×30E*		30						
VSPG-8×20E*	8	20	-	-	1	-	-	-
VSPG-8×30E*		30						
VSPG-2×4E*A	2	4	M6x1	3.4	0.15	11	2	2.5
VSPG-3.5×7E*A	3.5	7	M6x1	3.4	0.3	11	2	2.5
VSPG-4×10E*A	4	10	M6x1	3.4	0.8	11	2	2.5
VSPG-4×20E*A		20						
VSPG-4×30E*A		30						
VSPG-5×10E*A	5	10	M6x1	3.4	0.8	11	2	2.5
VSPG-5×20E*A		20						
VSPG-5×30E*A		30						
VSPG-6×10E*A	6	10	M6x1	3.4	1	11	2	2.5
VSPG-6×20E*A		20						
VSPG-6×30E*A		30						
VSPG-8×20E*A	8	20	M6x1	3.4	1	11	2	2.5
VSPG-8×30E*A		30						

Pad fitting part dimensions

●VSPG-2×4E* 3.5×7E* *x10E*

●VSPG-*x20E* *x30E*



Safety precautions

 WARNING

■ Use appropriate torque to tighten and fix the oval pad rubber holder.
Tighten using a tool that does not damage the frame and confirm that there is no looseness.

Machine, type	Fixing screw size	Tightening torque
Oval type all models	M6x1	0.27 to 0.33 N·m

Suction pad

 CAUTION

■ The oval pad fixing holder has no conductivity. When using a vacuum pad of conductive material, take measures to let electricity pass directly from the pad rubber.

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

MEMO



Suction pad, soft

VSP-*L* Series

Suction pad with flexible pad rubber that is gentle on the workpiece

RoHS

Ideal for retrieving molded products or for transporting fragile workpieces

A wide range of holder variations

Shape

16types

Pipingconnection

5types

Stroke

12types

- Standard 5 types
- Compact Class 4
- Low dust generation 2 types

- Lightweight 3 types
- Low back: 2 types

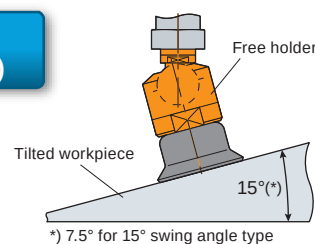
- Push-in fitting (ø1.8 to ø6) Three types
- Barbed fitting (ø4, ø6) Two types

2 mm to 50 mm
(Depends on the pad size and holder)

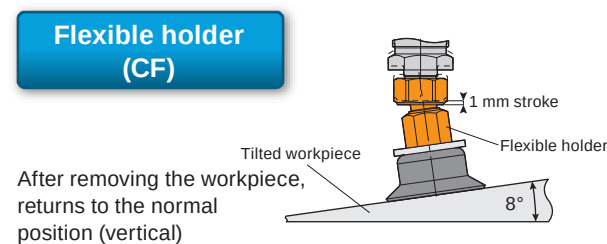
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding.

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle.

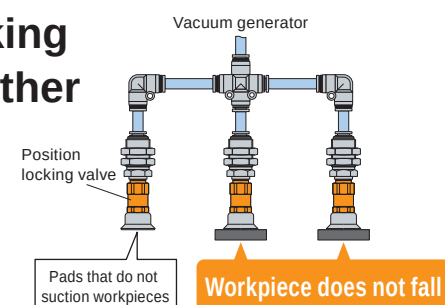
Free holder
(F1:30°, F2:15°)



Flexible holder
(CF)



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



Pad surface treatment (option) is available for special treatment to reduce suction marks

	-NF	-SF	-DL	-ER	-FG
Surface-Treated	Fiber raising		Anti-sticking	Reduced suction marks	Fluorine coating
	Nylon	Silk			
Compatible materials	Silicone	Silicone	Silicone Conductive silicone	Nitriles Conductive NBR (low resistance)	Silicone Conductive silicone
Features	The fibers (nylon or silk) on the pad surface prevent rubber material transfer by avoiding direct contact with the workpiece.		Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.		Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

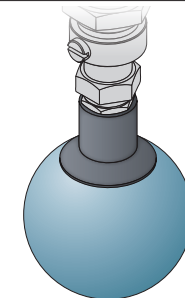
VSP-*L* Series

Pad shape



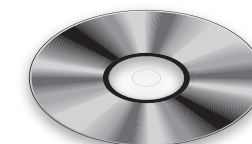
Softness that does not damage workpieces

Rubber hardness is available from A40. The lip is soft and track well even on workpieces with irregular shapes.



Recommended workpiece

Easily damaged workpieces such as molded products



Pad diameter

8 types

4

6

8

10

15

20

30

40

Pad material

5 types

Nitriles

Silicone

Conductive silicone

Conductive NBR (low resistance)

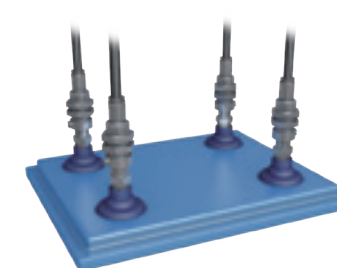
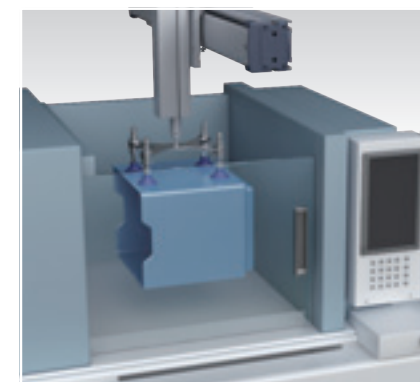
Fluorosilicone

* Silicone (S) is compatible with the Food Sanitation Act. (Holder is not supported/suction pad is compatible only with workpiece contact part.)

Solution examples

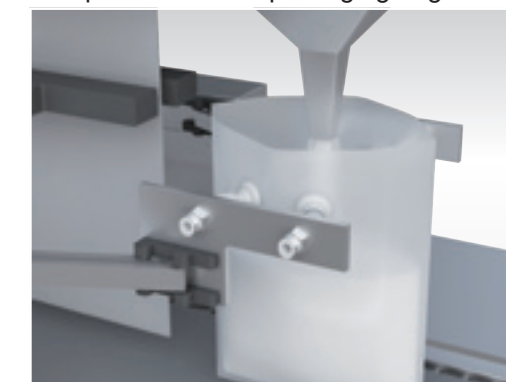
Delicate resin molded products, etc.

Gently transport workpieces that are easily damaged.



Opening/closing of packaging bags, etc.

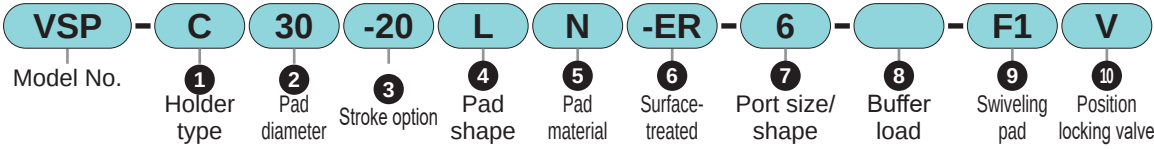
Soft lips track even on irregularly shaped workpieces such as packaging bags.



How to order

●Soft

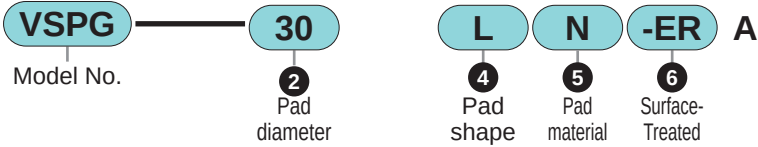
Suction pad



Pad rubber only



Pad rubber + Set with fixing screw



1 Holder type

With/Without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact	Upward direction	MA	
	Standard	Lateral direction	B	
	Compact	Lateral direction	MB	
	Low height	Both lateral directions	HE	
			HEW	
Buffer type	Standard	Upward direction	C	
	Compact	Upward direction	MC	
	Low dust generation	Upward direction	LFC	
	Lightweight	Upward direction	HC	
	Standard	Lateral direction	D	
	Compact	Lateral direction	MD	
	Low dust generation	Lateral direction	LFD	
	Light-weight	Both lateral directions	HD	
			HDW	
	Standard	Direct mounting	F	

4 Pad shape

Code	Description	
L	Soft	

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
FS	Fluorosilicone rubber
SE	Conductive silicone rubber
NE	Conductive NBR (low resistance)

6 Surface-treated

Description	Compatible pad material					Supported pad diameter	Code
	N	S	SE	NE	Soft (L)		
No surface treatment						All pads material, all pad diameters	Blank
Fiber nap (nylon)		●				ø10 to ø40	-NF
Fiber raising (silk)		●				ø10 to ø40	-SF
Anti-stick special coating		●	●			All sizes	-DL
Suction mark reduction surface modification	●			●		All sizes	-ER
Fluorine coating		●	●			All sizes	-FG

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - **P4***

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - **FP***

7 Port size/shape

Description	Holder type														Code
	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW
(1: for F)															Blank
ø1.8 push-in fitting						●	●	●			●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4
ø6 push-in fitting	●	●	●	●		●		●	●	●	●	●	●	●	6
ø4 Push-in fitting, without spring cover			●	●											4C
ø6 Push-in fitting, without spring cover			●	●											6C
ø4 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●											4TC
ø6 Barbed fitting, without spring cover			●	●											6TC

*1: If 3 -20 to -50 is available for 1 C and D, 7 4C, 6C, 4TC, 6TC can be selected.

*2: The available port size and shape differ depending on the pad diameter. Check with the combination table below.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1: 1 Blank for models other than LFC.

*2: 3 When -2 is selected, blank.

9 Swiveling pad

Code	Description	
Blank	None	*1,*2
F1	With free holder swing angle 30°	
F2	With free holder swing angle 15°	
CF	With flexible holder angle of 8°	

*1: 1 For HD, HE, HDW and HEW, is blank.

*2: 1 Blank for HC.

10 Position locking valve

Code	Description	
Blank	None	*1,*2
V	With position locking valve	

*1: 1 For HD, HE, HDW and HEW, is blank.

*2: 6 For -NF and -SF, is blank.

Holder shape - pad diameter - pad shape - port size/shape combinations

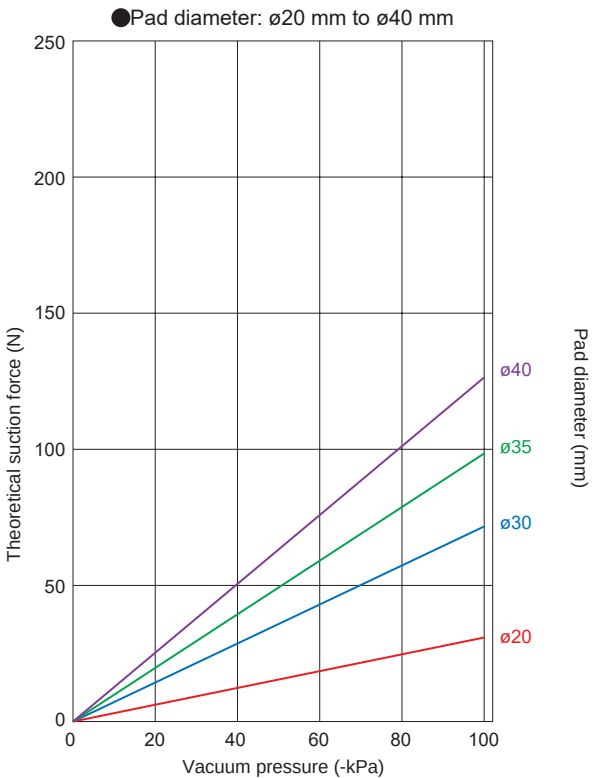
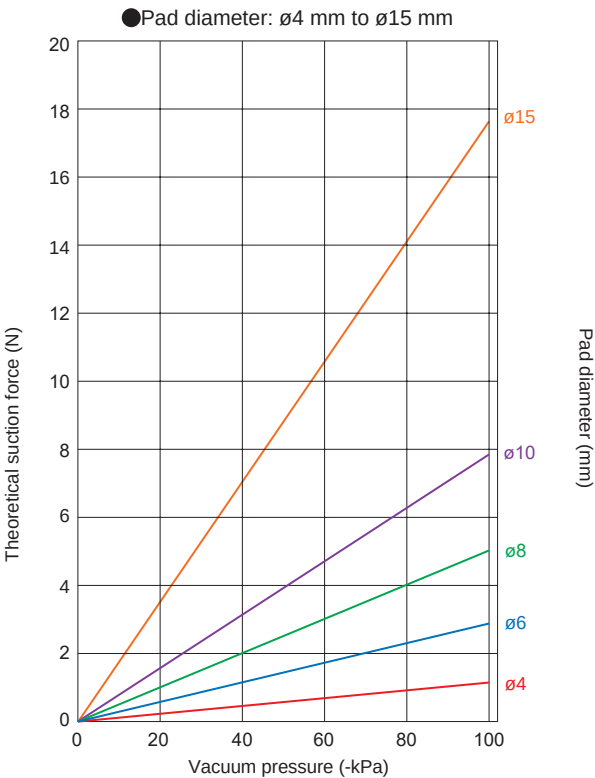
Holder type	Pad diameter	Push-in fitting				Barbed fitting			
		ø4		ø6		ø4		ø6	
		4	4C	6	6C	4T	4TC	6T	6TC
A	ø4 to ø15			●				●	
	ø20 to ø40	●		●		●		●	
B	All sizes	●		●		●		●	
C	All sizes	●	●	●	●	●	●	●	●
D	All sizes	●	●	●	●	●	●	●	●

Holder type	Pad diameter	Thread
		M14
F	All sizes	●

Holder type	Pad diameter	Push-in fitting			Barbed fitting	
		ø1.8	ø4	ø6	ø4	ø6
MA	ø4 to ø15		●		●	
	ø20 to ø40		●		●	●
MB	All sizes	●	●	●	●	●
MC	All sizes	●	●		●	●
MD	All sizes	●	●	●	●	●
LFC	ø4 to ø15		●		●	●
	ø20 to ø40		●	●	●	●
LFD	ø4 to ø15		●		●	●
	ø20 to ø40		●	●	●	●
HC	All sizes	●	●	●	●	●
HD	All sizes	●	●	●	●	●
HDW	All sizes	●	●	●	●	●
HE	All sizes	●	●	●	●	●
HEW	All sizes	●	●	●	●	●

Theoretical suction force

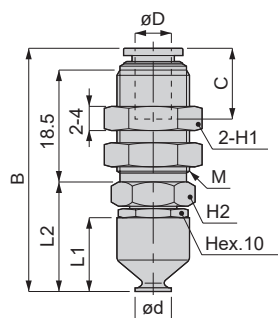
Suction pad
General/Deep/Compact
Sponge
Bellows
Multi-stage bellows
Oval
Soft
Soft bellows
Anti-slip
Thin object
Flat
Suction mark prevention



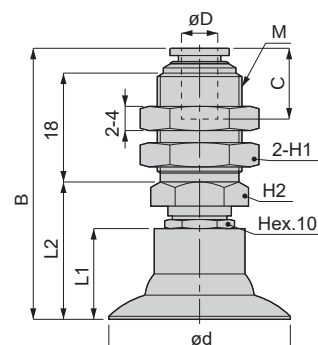
For soft type suction force, it may not be possible to secure the calculated suction force (theoretical suction force x safety factor) due to the effect of pad characteristics such as degree of vacuum/pad material/suctioned object. Before selection, use the suction force obtained by "Selection method of suction pad" (page 288) as a guide, and make sure that there is no problem with the suction capacity on the actual machine.

Dimensions (fixed, vacuum outlet, top, VSP-A, push-in fitting)

●VSP-A4 to 15L^{*}-6



●VSP-A20 to 40L^{*}-4/6

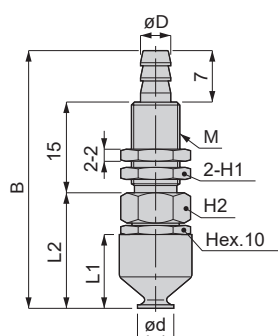


Unit: mm

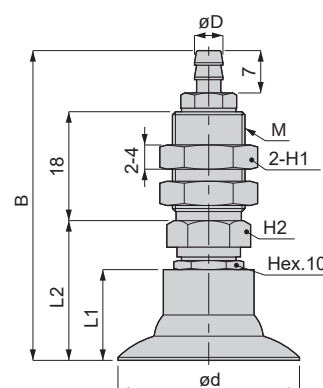
Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
VSP-A4L [*] -6	4	6	M12x1	40.6	12.2	18.3	11.9	14	12	24
VSP-A6L [*] -6	6	6	M12x1	40.6	12.2	18.3	11.9	14	12	24
VSP-A8L [*] -6	8	6	M12x1	40.6	12.2	18.3	11.9	14	12	24
VSP-A10L [*] -6	10	6	M12x1	42.4	14	20.1	11.9	14	12	25
VSP-A15L [*] -6	15	6	M12x1	42.4	14	20.1	11.9	14	12	25
VSP-A20L [*] -4	20	4	M12x1	53.9	15	23	11.2	14	12	35
VSP-A20L [*] -6		6	M14x1	44.9		22.6	11.9	17	14	41
VSP-A30L [*] -4	30	4	M12x1	53.9	15	23	11.2	14	12	38
VSP-A30L [*] -6		6	M14x1	44.9		22.6	11.9	17	14	44
VSP-A40L [*] -4	40	4	M12x1	53.9	15	23	11.2	14	12	44
VSP-A40L [*] -6		6	M14x1	44.9		22.6	11.9	17	14	50

Dimensions (fixed, vacuum outlet top VSP-A, barbed fitting)

●VSP-A4 to 15L^{*}-6T



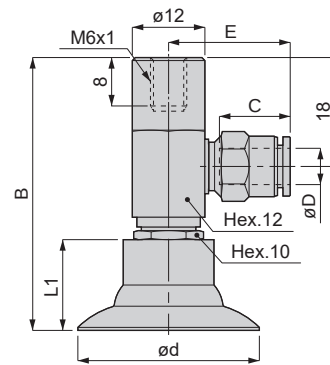
●VSP-A20 to 40L^{*}-4T/6T



Unit: mm

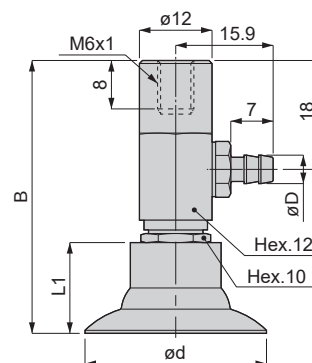
Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	Hexagon H1	Hexagon H2	Weight (g)
VSP-A4L [*] -6T	4	4	M8x0.75	41.3	12.2	19.3	10	10	14
VSP-A6L [*] -6T	6	4	M8x0.75	41.3	12.2	19.3	10	10	14
VSP-A8L [*] -6T	8	4	M8x0.75	41.3	12.2	19.3	10	10	14
VSP-A10L [*] -6T	10	4	M8x0.75	43.1	14	21.1	10	10	15
VSP-A15L [*] -6T	15	4	M8x0.75	43.1	14	21.1	10	10	15
VSP-A20L [*] -4T	20	2.5	M12x1	51	15	23	14	12	34
VSP-A20L [*] -6T		4							
VSP-A30L [*] -4T	30	2.5	M12x1	51	15	23	14	12	37
VSP-A30L [*] -6T		4							
VSP-A40L [*] -4T	40	2.5	M12x1	51	15	23	14	12	44
VSP-A40L [*] -6T		4							

●VSP-B20 to 40L*-4/6



Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B4L*-4	4	4	42.3	12.2	11.2	18.8	32
VSP-B4L*-6		6			11.9	20.1	33
VSP-B6L*-4	6	4	42.3	12.2	11.2	18.8	32
VSP-B6L*-6		6			11.9	20.1	33
VSP-B8L*-4	8	4	42.3	12.2	11.2	18.8	32
VSP-B8L*-6		6			11.9	20.1	33
VSP-B10L*-4	10	4	44.1	14	11.2	18.8	33
VSP-B10L*-6		6			11.9	20.1	34
VSP-B15L*-4	15	4	44.1	14	11.2	18.8	33
VSP-B15L*-6		6			11.9	20.1	34
VSP-B20L*-4	20	4	45	15	11.2	18.8	37
VSP-B20L*-6		6			11.9	20.1	38
VSP-B30L*-4	30	4	45	15	11.2	18.8	40
VSP-B30L*-6		6			11.9	20.1	41
VSP-B40L*-4	40	4	45	15	11.2	18.8	47
VSP-B40L*-6		6			11.9	20.1	48

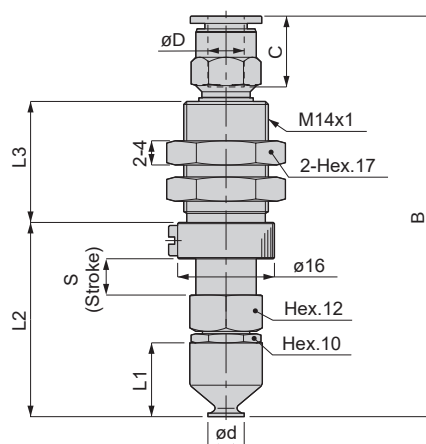
●VSP-B20 to 40L*-4T/6T



Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-B4L*-4T	4	2.5	42.3	12.2	31
VSP-B4L*-6T		4			
VSP-B6L*-4T	6	2.5	42.3	12.2	32
VSP-B6L*-6T		4			
VSP-B8L*-4T	8	2.5	42.3	12.2	32
VSP-B8L*-6T		4			
VSP-B10L*-4T	10	2.5	44.1	14	32
VSP-B10L*-6T		4			
VSP-B15L*-4T	15	2.5	44.1	14	32
VSP-B15L*-6T		4			
VSP-B20L*-4T	20	2.5	45	15	36
VSP-B20L*-6T		4			
VSP-B30L*-4T	30	2.5	45	15	39
VSP-B30L*-6T		4			
VSP-B40L*-4T	40	2.5	45	15	46
VSP-B40L*-6T		4			

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C4 to 15L*-4/6
- VSP-C4 to 15-□L*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C4L*-4	4	4	65.3	12.2	32.3	20	11.2	6	4.0 to 7.1	37
VSP-C4L*-6		6	66.6				11.9			38
VSP-C4-10L*-4		4	69.8		36.8	20	11.2	10	2.0 to 5.2	39
VSP-C4-10L*-6		6	71.1				11.9			40
VSP-C4-15L*-4		4	79.8		41.8	25	11.2	15	2.0 to 5.9	44
VSP-C4-15L*-6		6	81.1				11.9			45
VSP-C4-20L*-4		4	95.8		48.8	34	11.2	20	1.1 to 4.8	51
VSP-C4-20L*-6		6	97.1				11.9			52
VSP-C6L*-4	6	4	65.3	12.2	32.3	20	11.2	6	4.0 to 7.1	37
VSP-C6L*-6		6	66.6				11.9			38
VSP-C6-10L*-4		4	69.8		36.8	20	11.2	10	2.0 to 5.2	39
VSP-C6-10L*-6		6	71.1				11.9			40
VSP-C6-15L*-4		4	79.8		41.8	25	11.2	15	2.0 to 5.9	44
VSP-C6-15L*-6		6	81.1				11.9			45
VSP-C6-20L*-4		4	95.8		48.8	34	11.2	20	1.1 to 4.8	51
VSP-C6-20L*-6		6	97.1				11.9			52
VSP-C8L*-4	8	4	65.3	12.2	32.3	20	11.2	6	4.0 to 7.1	37
VSP-C8L*-6		6	66.6				11.9			38
VSP-C8-10L*-4		4	69.8		36.8	20	11.2	10	2.0 to 5.2	39
VSP-C8-10L*-6		6	71.1				11.9			40
VSP-C8-15L*-4		4	79.8		41.8	25	11.2	15	2.0 to 5.9	44
VSP-C8-15L*-6		6	81.1				11.9			45
VSP-C8-20L*-4		4	95.8		48.8	34	11.2	20	1.1 to 4.8	51
VSP-C8-20L*-6		6	97.1				11.9			52
VSP-C10L*-4	10	4	67.1	14	34.1	20	11.2	6	4.0 to 7.1	38
VSP-C10L*-6		6	68.5				11.9			39
VSP-C10-10L*-4		4	71.6		38.6	20	11.2	10	2.0 to 5.2	40
VSP-C10-10L*-6		6	72.9				11.9			41
VSP-C10-15L*-4		4	81.6		43.6	25	11.2	15	2.0 to 5.9	45
VSP-C10-15L*-6		6	82.9				11.9			46
VSP-C10-20L*-4		4	97.6		50.6	34	11.2	20	1.1 to 4.8	52
VSP-C10-20L*-6		6	98.9				11.9			53
VSP-C15L*-4	15	4	67.1	14	34.1	20	11.2	6	4.0 to 7.1	38
VSP-C15L*-6		6	68.5				11.9			39
VSP-C15-10L*-4		4	71.6		38.6	20	11.2	10	2.0 to 5.2	40
VSP-C15-10L*-6		6	72.9				11.9			41
VSP-C15-15L*-4		4	81.6		43.6	25	11.2	15	2.0 to 5.9	45
VSP-C15-15L*-6		6	82.9				11.9			46
VSP-C15-20L*-4		4	97.6		50.6	34	11.2	20	1.1 to 4.8	52
VSP-C15-20L*-6		6	98.9				11.9			53

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

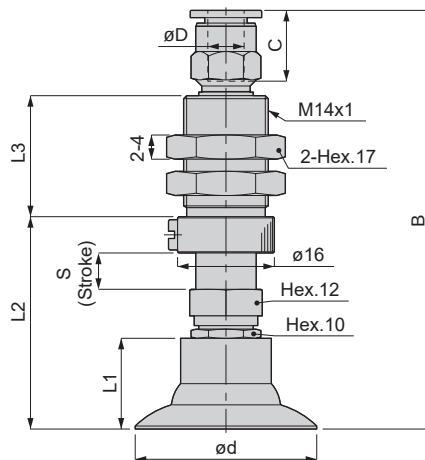
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting)

- VSP-C20 to 40L*-4/6
- VSP-C20 to 40-□*-4/6

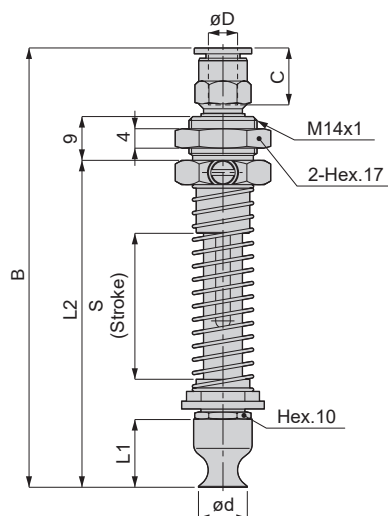


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C20L*-4	20	4	68	15	35	20	11.2	6	7.0 to 12.6	43
VSP-C20L*-6		6	69.3				11.9			44
VSP-C20-10L*-4		4	74		41		11.2	10	3.3 to 10.0	47
VSP-C20-10L*-6		6	75.3				11.9			48
VSP-C20-15L*-4		4	84		46	25	11.2	15	3.3 to 10.4	52
VSP-C20-15L*-6		6	85.3				11.9			53
VSP-C20-20L*-4		4	100		53	34	11.2	20	2.0 to 8.7	58
VSP-C20-20L*-6		6	101.3				11.9			59
VSP-C30L*-4	30	4	68	15	35	20	11.2	6	7.0 to 12.6	46
VSP-C30L*-6		6	69.3				11.9			47
VSP-C30-10L*-4		4	74		41		11.2	10	3.3 to 10.0	50
VSP-C30-10L*-6		6	75.3				11.9			51
VSP-C30-15L*-4		4	84		46	25	11.2	15	3.3 to 10.4	55
VSP-C30-15L*-6		6	85.3				11.9			56
VSP-C30-20L*-4		4	100		53	34	11.2	20	2.0 to 8.7	61
VSP-C30-20L*-6		6	101.3				11.9			62
VSP-C40L*-4	40	4	68	15	35	20	11.2	6	7.0 to 12.6	53
VSP-C40L*-6		6	69.3				11.9			54
VSP-C40-10L*-4		4	74		41		11.2	10	3.3 to 10.0	57
VSP-C40-10L*-6		6	75.3				11.9			58
VSP-C40-15L*-4		4	84		46	25	11.2	15	3.3 to 10.4	62
VSP-C40-15L*-6		6	85.3				11.9			63
VSP-C40-20L*-4		4	100		53	34	11.2	20	2.0 to 8.7	68
VSP-C40-20L*-6		6	101.3				11.9			69

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C4 to 15-□L^{*}-4C/6C



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C4-20L [*] -4C	4	4	72.8	12.2	50.8	11.2	20	1.5 to 4.9	45
VSP-C4-20L [*] -6C		6	74.1			11.9			46
VSP-C4-30L [*] -4C		4	85.8		63.8	11.2	30	1.1 to 4.8	51
VSP-C4-30L [*] -6C		6	87.1			11.9			52
VSP-C4-40L [*] -4C		4	98.8		76.8	11.2	40	1.0 to 4.5	56
VSP-C4-40L [*] -6C		6	100.1			11.9			57
VSP-C4-50L [*] -4C		4	111.8		89.8	11.2	50	0.9 to 4.5	61
VSP-C4-50L [*] -6C		6	113.1			11.9			62
VSP-C6-20L [*] -4C	6	4	72.8	12.2	50.8	11.2	20	1.5 to 4.9	45
VSP-C6-20L [*] -6C		6	74.1			11.9			46
VSP-C6-30L [*] -4C		4	85.8		63.8	11.2	30	1.1 to 4.8	51
VSP-C6-30L [*] -6C		6	87.1			11.9			52
VSP-C6-40L [*] -4C		4	98.8		76.8	11.2	40	1.0 to 4.5	56
VSP-C6-40L [*] -6C		6	100.1			11.9			57
VSP-C6-50L [*] -4C		4	111.8		89.8	11.2	50	0.9 to 4.5	61
VSP-C6-50L [*] -6C		6	113.1			11.9			62
VSP-C8-20L [*] -4C	8	4	72.8	12.2	50.8	11.2	20	1.5 to 4.9	45
VSP-C8-20L [*] -6C		6	74.1			11.9			46
VSP-C8-30L [*] -4C		4	85.8		63.8	11.2	30	1.1 to 4.8	51
VSP-C8-30L [*] -6C		6	87.1			11.9			52
VSP-C8-40L [*] -4C		4	98.8		76.8	11.2	40	1.0 to 4.5	56
VSP-C8-40L [*] -6C		6	100.1			11.9			57
VSP-C8-50L [*] -4C		4	111.8		89.8	11.2	50	0.9 to 4.5	61
VSP-C8-50L [*] -6C		6	113.1			11.9			62
VSP-C10-20L [*] -4C	10	4	74.6	14	52.6	11.2	20	1.5 to 4.9	45
VSP-C10-20L [*] -6C		6	75.9			11.9			46
VSP-C10-30L [*] -4C		4	87.6		65.6	11.2	30	1.1 to 4.8	51
VSP-C10-30L [*] -6C		6	88.9			11.9			52
VSP-C10-40L [*] -4C		4	100.6		78.6	11.2	40	1.0 to 4.5	56
VSP-C10-40L [*] -6C		6	101.9			11.9			57
VSP-C10-50L [*] -4C		4	113.6		91.6	11.2	50	0.9 to 4.5	61
VSP-C10-50L [*] -6C		6	114.9			11.9			62
VSP-C15-20L [*] -4C	15	4	74.6	14	52.6	11.2	20	1.5 to 4.9	45
VSP-C15-20L [*] -6C		6	75.9			11.9			46
VSP-C15-30L [*] -4C		4	87.6		65.6	11.2	30	1.1 to 4.8	51
VSP-C15-30L [*] -6C		6	88.9			11.9			52
VSP-C15-40L [*] -4C		4	100.6		78.6	11.2	40	1.0 to 4.5	56
VSP-C15-40L [*] -6C		6	101.9			11.9			57
VSP-C15-50L [*] -4C		4	113.6		91.6	11.2	50	0.9 to 4.5	61
VSP-C15-50L [*] -6C		6	114.9			11.9			62

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

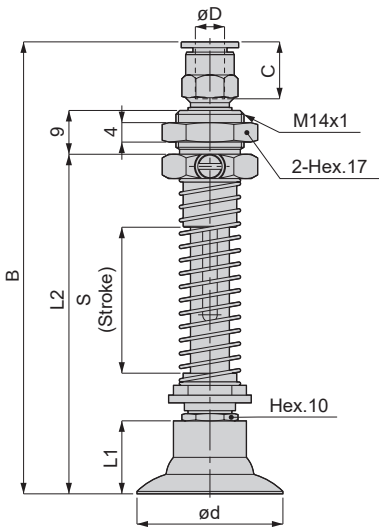
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, push-in fitting, without spring cover)

●VSP-C20 to 40-□L*-4C/6C

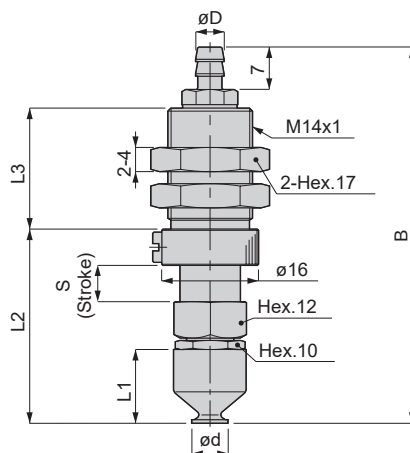


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C20-20L*-4C	20	4	77	15	55	11.2	20	1.5 to 4.9	50
VSP-C20-20L*-6C		6	78.3			11.9			51
VSP-C20-30L*-4C		4	90		68	11.2	30	1.1 to 4.8	55
VSP-C20-30L*-6C		6	91.3			11.9			56
VSP-C20-40L*-4C		4	103		81	11.2	40	1.0 to 4.5	60
VSP-C20-40L*-6C		6	104.3			11.9			61
VSP-C20-50L*-4C		4	116		94	11.2	50	0.9 to 4.5	65
VSP-C20-50L*-6C		6	117.3			11.9			66
VSP-C30-20L*-4C	30	4	77	15	55	11.2	20	1.5 to 4.9	53
VSP-C30-20L*-6C		6	78.3			11.9			54
VSP-C30-30L*-4C		4	90		68	11.2	30	1.1 to 4.8	58
VSP-C30-30L*-6C		6	91.3			11.9			59
VSP-C30-40L*-4C		4	103		81	11.2	40	1.0 to 4.5	63
VSP-C30-40L*-6C		6	104.3			11.9			64
VSP-C30-50L*-4C		4	116		94	11.2	50	0.9 to 4.5	68
VSP-C30-50L*-6C		6	117.3			11.9			69
VSP-C40-20L*-4C	40	4	77	15	55	11.2	20	1.5 to 4.9	57
VSP-C40-20L*-6C		6	78.3			11.9			58
VSP-C40-30L*-4C		4	90		68	11.2	30	1.1 to 4.8	62
VSP-C40-30L*-6C		6	91.3			11.9			63
VSP-C40-40L*-4C		4	103		81	11.2	40	1.0 to 4.5	67
VSP-C40-40L*-6C		6	104.3			11.9			68
VSP-C40-50L*-4C		4	116		94	11.2	50	0.9 to 4.5	72
VSP-C40-50L*-6C		6	117.3			11.9			73

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

- VSP-C4 to 15L*-4T/6T
- VSP-C4 to 15-□L*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C4L*-4T	4	4	62.4	12.2	32.3	20	6	4.0 to 7.1	37
VSP-C4L*-6T		6							
VSP-C4-10L*-4T		4	66.9		36.8	10	2.0 to 5.2	40	
VSP-C4-10L*-6T		6							
VSP-C4-15L*-4T		4	76.9		41.8	25	15	2.0 to 5.9	45
VSP-C4-15L*-6T		6							
VSP-C4-20L*-4T		4	92.9		48.8	34	20	1.1 to 4.8	51
VSP-C4-20L*-6T		6							
VSP-C6L*-4T	6	4	62.4	12.2	32.3	20	6	4.0 to 7.1	37
VSP-C6L*-6T		6							
VSP-C6-10L*-4T		4	66.9		36.8	10	2.0 to 5.2	40	
VSP-C6-10L*-6T		6							
VSP-C6-15L*-4T		4	76.9		41.8	25	15	2.0 to 5.9	45
VSP-C6-15L*-6T		6							
VSP-C6-20L*-4T		4	92.9		48.8	34	20	1.1 to 4.8	51
VSP-C6-20L*-6T		6							
VSP-C8L*-4T	8	4	62.4	12.2	32.3	20	6	4.0 to 7.1	37
VSP-C8L*-6T		6							
VSP-C8-10L*-4T		4	66.9		36.8	10	2.0 to 5.2	40	
VSP-C8-10L*-6T		6							
VSP-C8-15L*-4T		4	76.9		41.8	25	15	2.0 to 5.9	45
VSP-C8-15L*-6T		6							
VSP-C8-20L*-4T		4	92.9		48.8	34	20	1.1 to 4.8	51
VSP-C8-20L*-6T		6							
VSP-C10L*-4T	10	4	64.2	14	34.1	20	6	4.0 to 7.1	37
VSP-C10L*-6T		6							
VSP-C10-10L*-4T		4	68.7		38.6	10	2.0 to 5.2	40	
VSP-C10-10L*-6T		6							
VSP-C10-15L*-4T		4	78.7		43.6	25	15	2.0 to 5.9	45
VSP-C10-15L*-6T		6							
VSP-C10-20L*-4T		4	94.7		50.6	34	20	1.1 to 4.8	51
VSP-C10-20L*-6T		6							
VSP-C15L*-4T	15	4	64.2	14	34.1	20	6	4.0 to 7.1	37
VSP-C15L*-6T		6							
VSP-C15-10L*-4T		4	68.7		38.6	10	2.0 to 5.2	40	
VSP-C15-10L*-6T		6							
VSP-C15-15L*-4T		4	78.7		43.6	25	15	2.0 to 5.9	45
VSP-C15-15L*-6T		6							
VSP-C15-20L*-4T		4	94.7		50.6	34	20	1.1 to 4.8	51
VSP-C15-20L*-6T		6							

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

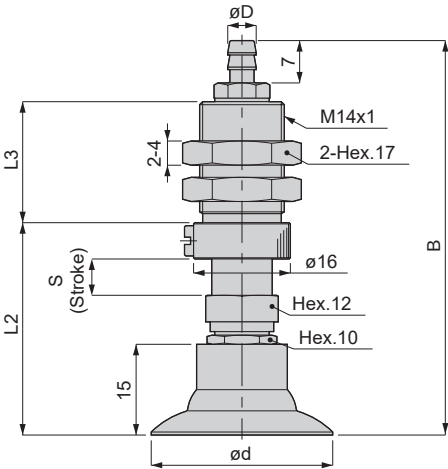
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting)

●VSP-C20 to 40L*-4T/6T

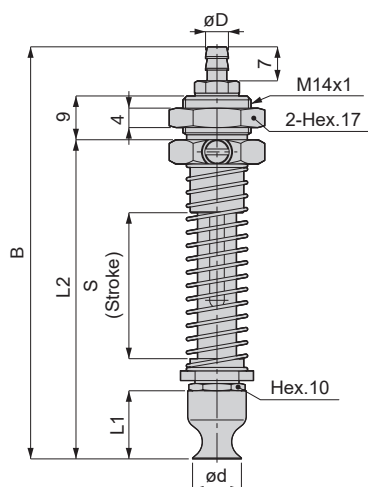


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C20L*-4T	20	4	65.1	15	35	20	11.2	6	7.0 to 12.6	42
VSP-C20L*-6T		6					11.9			
VSP-C20-10L*-4T		4	71.1		41	20	11.2	10	3.3 to 10.0	46
VSP-C20-10L*-6T		6					11.9			
VSP-C20-15L*-4T		4	81.1		46	25	11.2	15	3.3 to 10.4	51
VSP-C20-15L*-6T		6					11.9			
VSP-C20-20L*-4T		4	97.1		53	34	11.2	20	2.0 to 8.7	57
VSP-C20-20L*-6T		6					11.9			
VSP-C30L*-4T	30	4	65.1	15	35	20	11.2	6	7.0 to 12.6	45
VSP-C30L*-6T		6					11.9			
VSP-C30-10L*-4T		4	71.1		41	20	11.2	10	3.3 to 10.0	49
VSP-C30-10L*-6T		6					11.9			
VSP-C30-15L*-4T		4	81.1		46	25	11.2	15	3.3 to 10.4	54
VSP-C30-15L*-6T		6					11.9			
VSP-C30-20L*-4T		4	97.1		53	34	11.2	20	2.0 to 8.7	60
VSP-C30-20L*-6T		6					11.9			
VSP-C40L*-4T	40	4	65.1	15	35	20	11.2	6	7.0 to 12.6	51
VSP-C40L*-6T		6					11.9			
VSP-C40-10L*-4T		4	71.1		41	20	11.2	10	3.3 to 10.0	55
VSP-C40-10L*-6T		6					11.9			
VSP-C40-15L*-4T		4	81.1		46	25	11.2	15	3.3 to 10.4	59
VSP-C40-15L*-6T		6					11.9			
VSP-C40-20L*-4T		4	97.1		53	34	11.2	20	2.0 to 8.7	65
VSP-C40-20L*-6T		6					11.9			

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

●VSP-C4 to 15-□L^{*}-4TC/6TC



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C4-20L*4TC	4	4	69.9	12.2	50.8	20	1.5 to 4.9	44
VSP-C4-20L*6TC		6						
VSP-C4-30L*4TC		4	82.9		63.8	30	1.1 to 4.8	50
VSP-C4-30L*6TC		6						
VSP-C4-40L*4TC		4	95.9		76.8	40	1.0 to 4.5	55
VSP-C4-40L*6TC		6						
VSP-C4-50L*4TC		4	108.9		89.8	50	0.9 to 4.5	60
VSP-C4-50L*6TC		6						
VSP-C6-20L*4TC	6	4	69.9	12.2	50.8	20	1.5 to 4.9	44
VSP-C6-20L*6TC		6						
VSP-C6-30L*4TC		4	82.9		63.8	30	1.1 to 4.8	50
VSP-C6-30L*6TC		6						
VSP-C6-40L*4TC		4	95.9		76.8	40	1.0 to 4.5	55
VSP-C6-40L*6TC		6						
VSP-C6-50L*4TC		4	108.9		89.8	50	0.9 to 4.5	60
VSP-C6-50L*6TC		6						
VSP-C8-20L*4TC	8	4	69.9	12.2	50.8	20	1.5 to 4.9	44
VSP-C8-20L*6TC		6						
VSP-C8-30L*4TC		4	82.9		63.8	30	1.1 to 4.8	50
VSP-C8-30L*6TC		6						
VSP-C8-40L*4TC		4	95.9		76.8	40	1.0 to 4.5	55
VSP-C8-40L*6TC		6						
VSP-C8-50L*4TC		4	108.9		89.8	50	0.9 to 4.5	60
VSP-C8-50L*6TC		6						
VSP-C10-20L*4TC	10	4	71.7	14	52.6	20	1.5 to 4.9	44
VSP-C10-20L*6TC		6						
VSP-C10-30L*4TC		4	84.7		65.6	30	1.1 to 4.8	50
VSP-C10-30L*6TC		6						
VSP-C10-40L*4TC		4	97.7		78.6	40	1.0 to 4.5	55
VSP-C10-40L*6TC		6						
VSP-C10-50L*4TC		4	110.7		91.6	50	0.9 to 4.5	60
VSP-C10-50L*6TC		6						
VSP-C15-20L*4TC	15	4	71.7	14	52.6	20	1.5 to 4.9	44
VSP-C15-20L*6TC		6						
VSP-C15-30L*4TC		4	84.7		65.6	30	1.1 to 4.8	50
VSP-C15-30L*6TC		6						
VSP-C15-40L*4TC		4	97.7		78.6	40	1.0 to 4.5	55
VSP-C15-40L*6TC		6						
VSP-C15-50L*4TC		4	110.7		91.6	50	0.9 to 4.5	60
VSP-C15-50L*6TC		6						

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

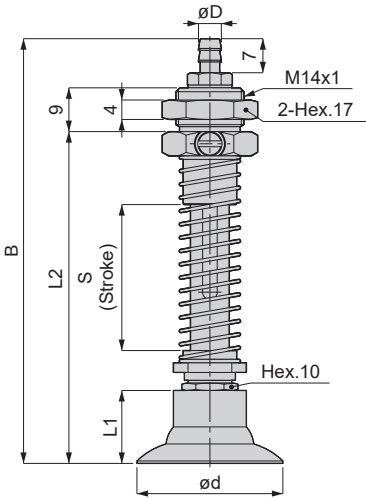
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, top, VSP-C, barbed fitting, without spring cover)

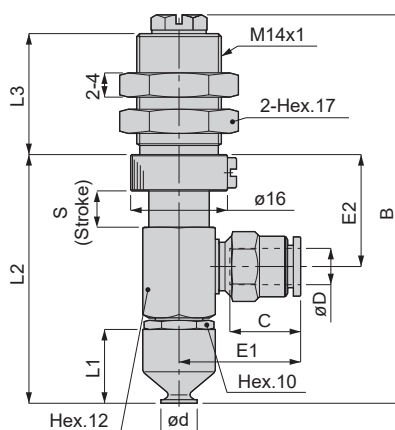
●VSP-C20 to to 40-□L*-4TC/6TC



Unit: mm								
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C20-20L*-4TC	20	4	74.1	15	55	20	1.5 to 4.9	44
VSP-C20-20L*-6TC		6						
VSP-C20-30L*-4TC		4	87.1		68	30	1.1 to 4.8	50
VSP-C20-30L*-6TC		6						
VSP-C20-40L*-4TC		4	110.1		81	40	1.0 to 4.5	55
VSP-C20-40L*-6TC		6						
VSP-C20-50L*-4TC		4	123.1		94	50	0.9 to 4.5	60
VSP-C20-50L*-6TC		6						
VSP-C30-20L*-4TC	30	4	74.1	15	55	20	1.5 to 4.9	44
VSP-C30-20L*-6TC		6						
VSP-C30-30L*-4TC		4	87.1		68	30	1.1 to 4.8	50
VSP-C30-30L*-6TC		6						
VSP-C30-40L*-4TC		4	110.1		81	40	1.0 to 4.5	55
VSP-C30-40L*-6TC		6						
VSP-C30-50L*-4TC		4	123.1		94	50	0.9 to 4.5	60
VSP-C30-50L*-6TC		6						
VSP-C40-20L*-4TC	40	4	74.1	15	55	20	1.5 to 4.9	44
VSP-C40-20L*-6TC		6						
VSP-C40-30L*-4TC		4	87.1		68	30	1.1 to 4.8	50
VSP-C40-30L*-6TC		6						
VSP-C40-40L*-4TC		4	110.1		81	40	1.0 to 4.5	55
VSP-C40-40L*-6TC		6						
VSP-C40-50L*-4TC		4	123.1		94	50	0.9 to 4.5	60
VSP-C40-50L*-6TC		6						

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

- VSP-D4 to 15L^{*}-4/6
- VSP-D4 to 15-□L^{*}-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D4L*-4	4	4	64.4	12.2	41.3	20	11.2	18.8	18.5	6	4.0 to 7.1	49
VSP-D4L*-6		6					11.9	20.1				50
VSP-D4-10L*-4		4	69.4		46.3	20	11.2	18.8	25	10	2.0 to 5.2	52
VSP-D4-10L*-6		6					11.9	20.1				53
VSP-D4-15L*-4		4	79.4		51.3	25	11.2	18.8	30	15	2.0 to 5.9	58
VSP-D4-20L*-6		6					11.9	20.1				59
VSP-D4-20L*-4		4	95.4		58.3	34	11.2	18.8	37	20	1.1 to 4.8	68
VSP-D4-20L*-6		6					11.9	20.1				69
VSP-D6L*-4	6	4	64.4	12.2	41.3	20	11.2	18.8	18.5	6	4.0 to 7.1	49
VSP-D6L*-6		6					11.9	20.1				50
VSP-D6-10L*-4		4	69.4		46.3	20	11.2	18.8	25	10	2.0 to 5.2	52
VSP-D6-10L*-6		6					11.9	20.1				53
VSP-D6-15L*-4		4	79.4		51.3	25	11.2	18.8	30	15	2.0 to 5.9	58
VSP-D6-20L*-6		6					11.9	20.1				59
VSP-D6-20L*-4		4	95.4		58.3	34	11.2	18.8	37	20	1.1 to 4.8	68
VSP-D6-20L*-6		6					11.9	20.1				69
VSP-D8L*-4	8	4	64.4	12.2	41.3	20	11.2	18.8	18.5	6	4.0 to 7.1	49
VSP-D8L*-6		6					11.9	20.1				50
VSP-D8-10L*-4		4	69.4		46.3	20	11.2	18.8	25	10	2.0 to 5.2	52
VSP-D8-10L*-6		6					11.9	20.1				53
VSP-D8-15L*-4		4	79.4		51.3	25	11.2	18.8	30	15	2.0 to 5.9	58
VSP-D8-20L*-6		6					11.9	20.1				59
VSP-D8-20L*-4		4	95.4		58.3	34	11.2	18.8	37	20	1.1 to 4.8	68
VSP-D8-20L*-6		6					11.9	20.1				69
VSP-D10L*-4	10	4	66.2	14	43.1	20	11.2	18.8	18.5	6	4.0 to 7.1	50
VSP-D10L*-6		6					11.9	20.1				51
VSP-D10-10L*-4		4	71.2		48.1	20	11.2	18.8	25	10	2.0 to 5.2	53
VSP-D10-10L*-6		6					11.9	20.1				54
VSP-D10-15L*-4		4	81.2		53.1	25	11.2	18.8	30	15	2.0 to 5.9	59
VSP-D10-20L*-6		6					11.9	20.1				60
VSP-D10-20L*-4		4	97.2		60.1	34	11.2	18.8	37	20	1.1 to 4.8	69
VSP-D10-20L*-6		6					11.9	20.1				70
VSP-D15L*-4	15	4	66.2	14	43.1	20	11.2	18.8	18.5	6	4.0 to 7.1	50
VSP-D15L*-6		6					11.9	20.1				51
VSP-D15-10L*-4		4	71.2		48.1	20	11.2	18.8	25	10	2.0 to 5.2	53
VSP-D15-10L*-6		6					11.9	20.1				54
VSP-D15-15L*-4		4	81.2		53.1	25	11.2	18.8	30	15	2.0 to 5.9	59
VSP-D15-20L*-6		6					11.9	20.1				60
VSP-D15-20L*-4		4	97.2		60.1	34	11.2	18.8	37	20	1.1 to 4.8	69
VSP-D15-20L*-6		6					11.9	20.1				70

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

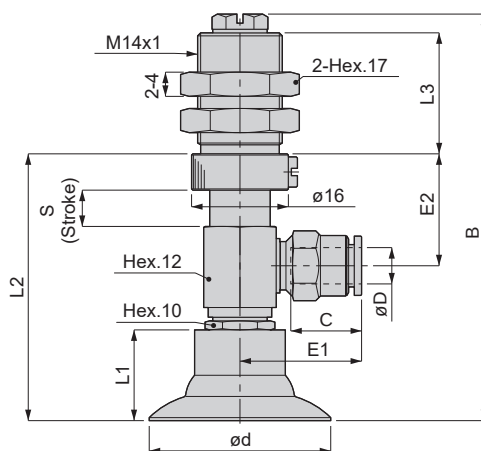
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting)

- VSP-D20 to 40L*-4/6
- VSP-D20 to 40-□L*-4/6

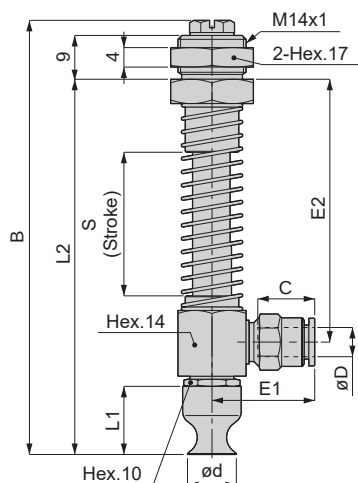


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D20L*-4	20	4	67.1	15	44	20	11.2	18.8	18.5	6	7.0 to 12.6	55
VSP-D20L*-6		6					11.9	20.1				56
VSP-D20-10L*-4		4	73.1		50	11.2	18.8	24.5	10	3.3 to 10.0	58	
VSP-D20-10L*-6		6				11.9	20.1				59	
VSP-D20-15L*-4		4	83.1		55	11.2	18.8	29.5	15	3.3 to 10.4	63	
VSP-D20-15L*-6		6				11.9	20.1				64	
VSP-D20-20L*-4		4	99.1		62	34	11.2	18.8	36.5	20	2.0 to 8.7	73
VSP-D20-20L*-6		6					11.9	20.1				74
VSP-D30L*-4	30	4	67.1	15	44	20	11.2	18.8	18.5	6	7.0 to 12.6	58
VSP-D30L*-6		6					11.9	20.1				59
VSP-D30-10L*-4		4	73.1		50	11.2	18.8	24.5	10	3.3 to 10.0	61	
VSP-D30-10L*-6		6				11.9	20.1				62	
VSP-D30-15L*-4		4	83.1		55	11.2	18.8	29.5	15	3.3 to 10.4	66	
VSP-D30-15L*-6		6				11.9	20.1				67	
VSP-D30-20L*-4		4	99.1		62	34	11.2	18.8	36.5	20	2.0 to 8.7	76
VSP-D30-20L*-6		6					11.9	20.1				77
VSP-D40L*-4	40	4	67.1	15	44	20	11.2	18.8	18.5	6	7.0 to 12.6	59
VSP-D40L*-6		6					11.9	20.1				60
VSP-D40-10L*-4		4	73.1		50	11.2	18.8	24.5	10	3.3 to 10.0	62	
VSP-D40-10L*-6		6				11.9	20.1				63	
VSP-D40-15L*-4		4	83.1		55	11.2	18.8	29.5	15	3.3 to 10.4	67	
VSP-D40-15L*-6		6				11.9	20.1				68	
VSP-D40-20L*-4		4	99.1		62	34	11.2	18.8	36.5	20	2.0 to 8.7	77
VSP-D40-20L*-6		6					11.9	20.1				78

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D4 to 15-□L^{*}-4C/6C



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D4-20L *4C	4	4	74.4	12.2	62.3	11.2	19.8	40.5	20	1.5 to 4.9	71
VSP-D4-20L *6C		6				11.9	21.1				72
VSP-D4-30L *4C		4	87.4		75.3	11.2	19.8	53.5	30	1.1 to 4.8	77
VSP-D4-30L *6C		6				11.9	21.1				78
VSP-D4-40L *4C		4	100.4		88.3	11.2	19.8	66.5	40	1.0 to 4.5	84
VSP-D4-40L *6C		6				11.9	21.1				85
VSP-D4-50L *4C		4	113.4		101.3	11.2	19.8	79.5	50	0.9 to 4.5	91
VSP-D4-50L *6C		6				11.9	21.1				92
VSP-D6-20L *4C	6	4	74.4	12.2	62.3	11.2	19.8	40.5	20	1.5 to 4.9	71
VSP-D6-20L *6C		6				11.9	21.1				72
VSP-D6-30L *4C		4	87.4		75.3	11.2	19.8	53.5	30	1.1 to 4.8	77
VSP-D6-30L *6C		6				11.9	21.1				78
VSP-D6-40L *4C		4	100.4		88.3	11.2	19.8	66.5	40	1.0 to 4.5	84
VSP-D6-40L *6C		6				11.9	21.1				85
VSP-D6-50L *4C		4	113.4		101.3	11.2	19.8	79.5	50	0.9 to 4.5	91
VSP-D6-50L *6C		6				11.9	21.1				92
VSP-D8-20L *4C	8	4	74.4	12.2	62.3	11.2	19.8	40.5	20	1.5 to 4.9	71
VSP-D8-20L *6C		6				11.9	21.1				72
VSP-D8-30L *4C		4	87.4		75.3	11.2	19.8	53.5	30	1.1 to 4.8	77
VSP-D8-30L *6C		6				11.9	21.1				78
VSP-D8-40L *4C		4	100.4		88.3	11.2	19.8	66.5	40	1.0 to 4.5	84
VSP-D8-40L *6C		6				11.9	21.1				85
VSP-D8-50L *4C		4	113.4		101.3	11.2	19.8	79.5	50	0.9 to 4.5	91
VSP-D8-50L *6C		6				11.9	21.1				92
VSP-D10-20L *4C	10	4	76.2	14	64.1	11.2	19.8	40.5	20	1.5 to 4.9	71
VSP-D10-20L *6C		6				11.9	21.1				72
VSP-D10-30L *4C		4	89.2		77.1	11.2	19.8	53.5	30	1.1 to 4.8	77
VSP-D10-30L *6C		6				11.9	21.1				78
VSP-D10-40L *4C		4	102.2		90.1	11.2	19.8	66.5	40	1.0 to 4.5	84
VSP-D10-40L *6C		6				11.9	21.1				85
VSP-D10-50L *4C		4	115.2		103.1	11.2	19.8	79.5	50	0.9 to 4.5	91
VSP-D10-50L *6C		6				11.9	21.1				92
VSP-D15-20L *4C	15	4	76.2	14	64.1	11.2	19.8	40.5	20	1.5 to 4.9	71
VSP-D15-20L *6C		6				11.9	21.1				72
VSP-D15-30L *4C		4	89.2		77.1	11.2	19.8	53.5	30	1.1 to 4.8	77
VSP-D15-30L *6C		6				11.9	21.1				78
VSP-D15-40L *4C		4	102.2		90.1	11.2	19.8	66.5	40	1.0 to 4.5	84
VSP-D15-40L *6C		6				11.9	21.1				85
VSP-D15-50L *4C		4	115.2		103.1	11.2	19.8	79.5	50	0.9 to 4.5	91
VSP-D15-50L *6C		6				11.9	21.1				92

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

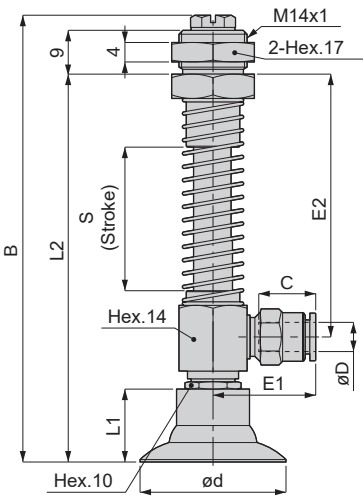
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, push-in fitting, without spring cover)

●VSP-D20 to to 40-□L*-4C/6C

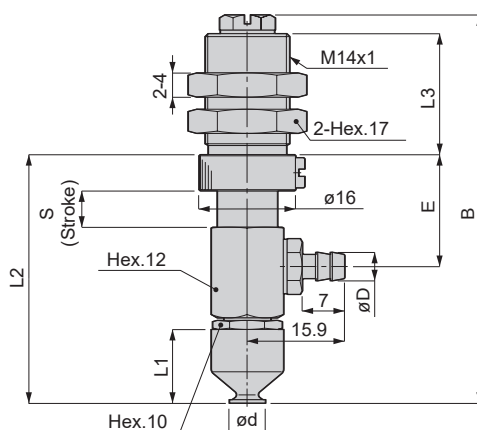


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D20-20L*-4C	20	4	78.6	15	66.5	11.2	19.8	41	20	1.5 to 4.9	72
VSP-D20-20L*-6C		6				11.9	21.1				73
VSP-D20-30L*-4C		4	91.6		79.5	11.2	19.8	54	30	1.1 to 4.8	79
VSP-D20-30L*-6C		6				11.9	21.1				80
VSP-D20-40L*-4C		4	104.6		92.5	11.2	19.8	67	40	1.0 to 4.5	84
VSP-D20-40L*-6C		6				11.9	21.1				85
VSP-D20-50L*-4C		4	117.6		105.5	11.2	19.8	80	50	0.9 to 4.5	92
VSP-D20-50L*-6C		6				11.9	21.1				93
VSP-D30-20L*-4C	30	4	78.6	15	66.5	11.2	19.8	41	20	1.5 to 4.9	75
VSP-D30-20L*-6C		6				11.9	21.1				76
VSP-D30-30L*-4C		4	91.6		79.5	11.2	19.8	54	30	1.1 to 4.8	82
VSP-D30-30L*-6C		6				11.9	21.1				83
VSP-D30-40L*-4C		4	104.6		92.5	11.2	19.8	67	40	1.0 to 4.5	87
VSP-D30-40L*-6C		6				11.9	21.1				88
VSP-D30-50L*-4C		4	117.6		105.5	11.2	19.8	80	50	0.9 to 4.5	95
VSP-D30-50L*-6C		6				11.9	21.1				96
VSP-D40-20L*-4C	40	4	78.6	15	66.5	11.2	19.8	41	20	1.5 to 4.9	79
VSP-D40-20L*-6C		6				11.9	21.1				80
VSP-D40-30L*-4C		4	91.6		79.5	11.2	19.8	54	30	1.1 to 4.8	86
VSP-D40-30L*-6C		6				11.9	21.1				87
VSP-D40-40L*-4C		4	104.6		92.5	11.2	19.8	67	40	1.0 to 4.5	91
VSP-D40-40L*-6C		6				11.9	21.1				92
VSP-D40-50L*-4C		4	117.6		105.5	11.2	19.8	80	50	0.9 to 4.5	99
VSP-D40-50L*-6C		6				11.9	21.1				100

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

- VSP-D4 to 15L*-4T/6T
- VSP-D4 to 15-□L*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D4L*-4T	4	2.5	64.4	12.2	41.3	20	18.5	6	4.0 to 7.1	48
VSP-D4L*-6T		4								
VSP-D4-10L*-4T		2.5	69.4		46.3	25	10	2.0 to 5.2	49	
VSP-D4-10L*-6T		4								
VSP-D4-15L*-4T		2.5	79.4		51.3	25	30	15	2.0 to 5.9	55
VSP-D4-15L*-6T		4								
VSP-D4-20L*-4T		2.5	95.4		58.3	34	37	20	1.1 to 4.8	65
VSP-D4-20L*-6T		4								
VSP-D6L*-4T	6	2.5	64.4	12.2	41.3	20	18.5	6	4.0 to 7.1	49
VSP-D6L*-6T		4								
VSP-D6-10L*-4T		2.5	69.4		46.3	25	10	2.0 to 5.2	50	
VSP-D6-10L*-6T		4								
VSP-D6-15L*-4T		2.5	79.4		51.3	25	30	15	2.0 to 5.9	56
VSP-D6-15L*-6T		4								
VSP-D6-20L*-4T		2.5	95.4		58.3	34	37	20	1.1 to 4.8	66
VSP-D6-20L*-6T		4								
VSP-D8L*-4T	8	2.5	64.4	12.2	41.3	20	18.5	6	4.0 to 7.1	49
VSP-D8L*-6T		4								
VSP-D8-10L*-4T		2.5	69.4		46.3	25	10	2.0 to 5.2	50	
VSP-D8-10L*-6T		4								
VSP-D8-15L*-4T		2.5	79.4		51.3	25	30	15	2.0 to 5.9	56
VSP-D8-15L*-6T		4								
VSP-D8-20L*-4T		2.5	95.4		58.3	34	37	20	1.1 to 4.8	66
VSP-D8-20L*-6T		4								
VSP-D10L*-4T	10	2.5	66.2	14	43.1	20	18.5	6	4.0 to 7.1	49
VSP-D10L*-6T		4								
VSP-D10-10L*-4T		2.5	71.2		48.1	25	10	2.0 to 5.2	50	
VSP-D10-10L*-6T		4								
VSP-D10-15L*-4T		2.5	81.2		53.1	25	30	15	2.0 to 5.9	56
VSP-D10-15L*-6T		4								
VSP-D10-20L*-4T		2.5	97.2		60.1	34	37	20	1.1 to 4.8	66
VSP-D10-20L*-6T		4								
VSP-D15L*-4T	15	2.5	66.2	14	43.1	20	18.5	6	4.0 to 7.1	49
VSP-D15L*-6T		4								
VSP-D15-10L*-4T		2.5	71.2		48.1	25	10	2.0 to 5.2	50	
VSP-D15-10L*-6T		4								
VSP-D15-15L*-4T		2.5	81.2		53.1	25	30	15	2.0 to 5.9	56
VSP-D15-15L*-6T		4								
VSP-D15-20L*-4T		2.5	97.2		60.1	34	37	20	1.1 to 4.8	66
VSP-D15-20L*-6T		4								

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

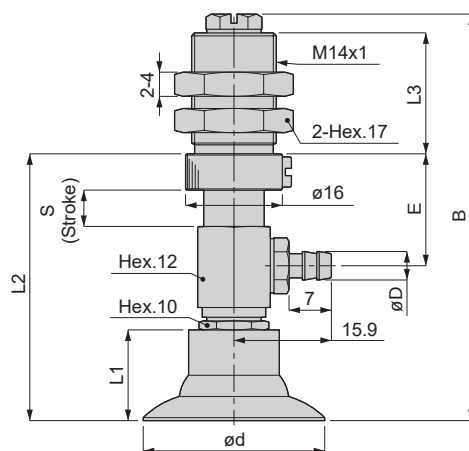
Thin object

Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting)

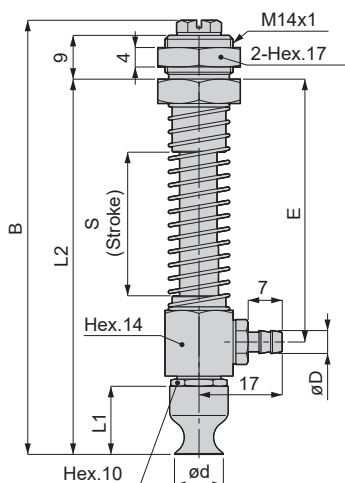
- VSP-D20 to 40L*-4T/6T
●VSP-D20 to 40-□L*-4T/6T



										Unit: mm
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D20L*-4T	20	2.5	67.1	15	44	20	18.5	6	7.0 to 12.6	53
VSP-D20L*-6T		4								
VSP-D20-10L*-4T		2.5	73.1		50	24.5	10	3.3 to 10.0	54	
VSP-D20-10L*-6T		4								
VSP-D20-15L*-4T		2.5	83.1		55	25	29.5	15	3.3 to 10.4	61
VSP-D20-15L*-6T		4								
VSP-D20-20L*-4T		2.5	99.1		62	34	36.5	20	2.0 to 8.7	71
VSP-D20-20L*-6T		4								
VSP-D30L*-4T	30	2.5	67.1	15	44	20	18.5	6	7.0 to 12.6	56
VSP-D30L*-6T		4								
VSP-D30-10L*-4T		2.5	73.1		50	24.5	10	3.3 to 10.0	57	
VSP-D30-10L*-6T		4								
VSP-D30-15L*-4T		2.5	83.1		55	25	29.5	15	3.3 to 10.4	64
VSP-D30-15L*-6T		4								
VSP-D30-20L*-4T		2.5	99.1		62	34	36.5	20	2.0 to 8.7	74
VSP-D30-20L*-6T		4								
VSP-D40L*-4T	40	2.5	67.1	15	44	20	18.5	6	7.0 to 12.6	61
VSP-D40L*-6T		4								
VSP-D40-10L*-4T		2.5	73.1		50	24.5	10	3.3 to 10.0	62	
VSP-D40-10L*-6T		4								
VSP-D40-15L*-4T		2.5	83.1		55	25	29.5	15	3.3 to 10.4	69
VSP-D40-15L*-6T		4								
VSP-D40-20L*-4T		2.5	99.1		62	34	36.5	20	2.0 to 8.7	79
VSP-D40-20L*-6T		4								

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D4 to 15-□L^{*}-4TC/6TC



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D4-20L*4TC	4	2.5	74.4	12.2	62.3	40.5	20	1.5 to 4.9	67
VSP-D4-20L*6TC		4							
VSP-D4-30L*4TC		2.5	87.4		75.3	53.5	30	1.1 to 4.8	74
VSP-D4-30L*6TC		4							
VSP-D4-40L*4TC		2.5	100.4		88.3	66.5	40	1.0 to 4.5	81
VSP-D4-40L*6TC		4							
VSP-D4-50L*4TC		2.5	113.4		101.3	79.5	50	0.9 to 4.5	87
VSP-D4-50L*6TC		4							
VSP-D6-20L*4TC	6	2.5	74.4	12.2	62.3	40.5	20	1.5 to 4.9	68
VSP-D6-20L*6TC		4							
VSP-D6-30L*4TC		2.5	87.4		75.3	53.5	30	1.1 to 4.8	75
VSP-D6-30L*6TC		4							
VSP-D6-40L*4TC		2.5	100.4		88.3	66.5	40	1.0 to 4.5	82
VSP-D6-40L*6TC		4							
VSP-D6-50L*4TC		2.5	113.4		101.3	79.5	50	0.9 to 4.5	88
VSP-D6-50L*6TC		4							
VSP-D8-20L*4TC	8	2.5	74.4	12.2	62.3	40.5	20	1.5 to 4.9	68
VSP-D8-20L*6TC		4							
VSP-D8-30L*4TC		2.5	87.4		75.3	53.5	30	1.1 to 4.8	75
VSP-D8-30L*6TC		4							
VSP-D8-40L*4TC		2.5	100.4		88.3	66.5	40	1.0 to 4.5	82
VSP-D8-40L*6TC		4							
VSP-D8-50L*4TC		2.5	113.4		101.3	79.5	50	0.9 to 4.5	88
VSP-D8-50L*6TC		4							
VSP-D10-20L*4TC	10	2.5	76.2	14	64.1	40.5	20	1.5 to 4.9	68
VSP-D10-20L*6TC		4							
VSP-D10-30L*4TC		2.5	89.4		77.1	53.5	30	1.1 to 4.8	75
VSP-D10-30L*6TC		4							
VSP-D10-40L*4TC		2.5	102.4		90.1	66.5	40	1.0 to 4.5	82
VSP-D10-40L*6TC		4							
VSP-D10-50L*4TC		2.5	115.4		103.1	79.5	50	0.9 to 4.5	88
VSP-D10-50L*6TC		4							
VSP-D15-20L*4TC	15	2.5	76.2	14	64.1	40.5	20	1.5 to 4.9	68
VSP-D15-20L*6TC		4							
VSP-D15-30L*4TC		2.5	89.4		77.1	53.5	30	1.1 to 4.8	75
VSP-D15-30L*6TC		4							
VSP-D15-40L*4TC		2.5	102.4		90.1	66.5	40	1.0 to 4.5	82
VSP-D15-40L*6TC		4							
VSP-D15-50L*4TC		2.5	115.4		103.1	79.5	50	0.9 to 4.5	88
VSP-D15-50L*6TC		4							

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

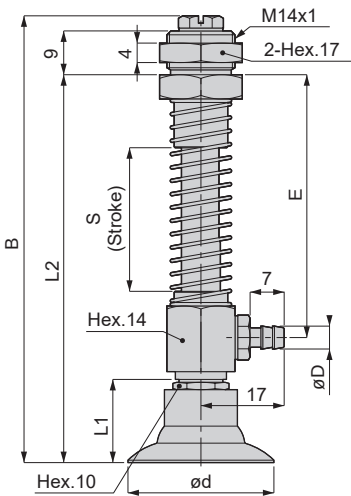
Thin object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet, side, VSP-D, barbed fitting, without spring cover)

●VSP-D20 to 50-□L*-4TC/6TC

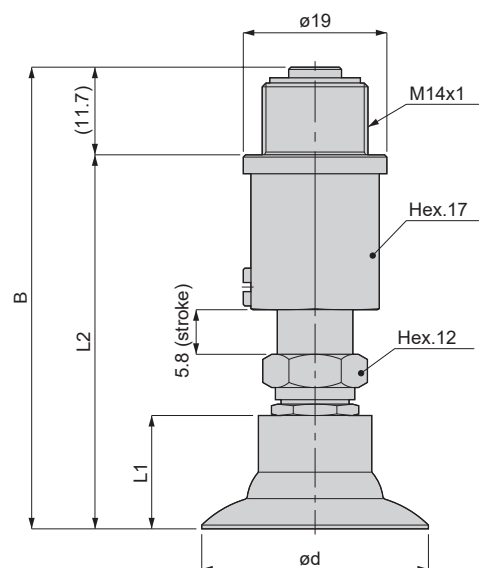
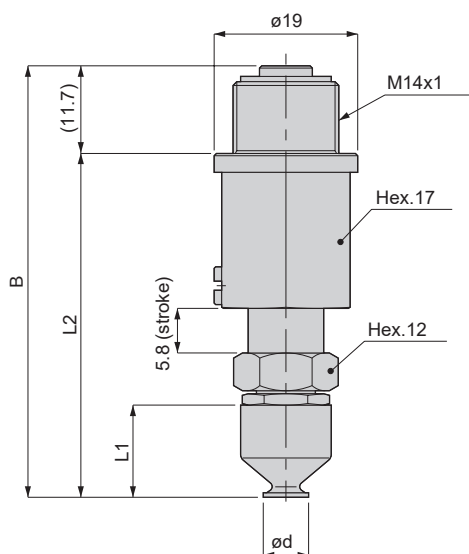


Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D20-20L*-4TC	20	4	78.6	15	66.5	41	20	1.5 to 4.9	70
VSP-D20-20L*-6TC		6							
VSP-D20-30L*-4TC		4	91.6		79.5	54	30	1.1 to 4.8	77
VSP-D20-30L*-6TC		6							
VSP-D20-40L*-4TC		4	104.6		92.5	67	40	1.0 to 4.5	84
VSP-D20-40L*-6TC		6							
VSP-D20-50L*-4TC		4	117.6		105.5	80	50	0.9 to 4.5	90
VSP-D20-50L*-6TC		6							
VSP-D30-20L*-4TC	30	4	78.6	15	66.5	41	20	1.5 to 4.9	70
VSP-D30-20L*-6TC		6							
VSP-D30-30L*-4TC		4	91.6		79.5	54	30	1.1 to 4.8	77
VSP-D30-30L*-6TC		6							
VSP-D30-40L*-4TC		4	104.6		92.5	67	40	1.0 to 4.5	84
VSP-D30-40L*-6TC		6							
VSP-D30-50L*-4TC		4	117.6		105.5	80	50	0.9 to 4.5	90
VSP-D30-50L*-6TC		6							
VSP-D40-20L*-4TC	40	4	78.6	15	66.5	41	20	1.5 to 4.9	70
VSP-D40-20L*-6TC		6							
VSP-D40-30L*-4TC		4	91.6		79.5	54	30	1.1 to 4.8	77
VSP-D40-30L*-6TC		6							
VSP-D40-40L*-4TC		4	104.6		92.5	67	40	1.0 to 4.5	84
VSP-D40-40L*-6TC		6							
VSP-D40-50L*-4TC		4	117.6		105.5	80	50	0.9 to 4.5	90
VSP-D40-50L*-6TC		6							

Dimensions (direct mounting, buffer, VSP-F male thread)

●VSP-F4 to 15L^{*}

●VSP-F20 to 40L^{*}



Unit: mm

Model No.	Pad diameter ϕd	B	L1	L2	Spring force (N)	Weight (g)
VSP-F4L [*]	4	57.3	12.2	45.6	7.9 to 15	58
VSP-F6L [*]	6	57.3	12.2	45.6	7.9 to 15	58
VSP-F8L [*]	8	57.3	12.2	45.6	7.9 to 15	58
VSP-F10L [*]	10	59.1	14	47.4	7.9 to 15	59
VSP-F15L [*]	15	59.1	14	47.4	7.9 to 15	59
VSP-F20L [*]	20	61.1	15	49.5	7.9 to 15	63
VSP-F30L [*]	30	61.1	15	49.5	7.9 to 15	66
VSP-F40L [*]	40	61.1	15	49.5	7.9 to 15	72

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention

General/Deep/
Compact

Sponge

Bellows

Soft bellows

Anti-slip

Thin object

Flat



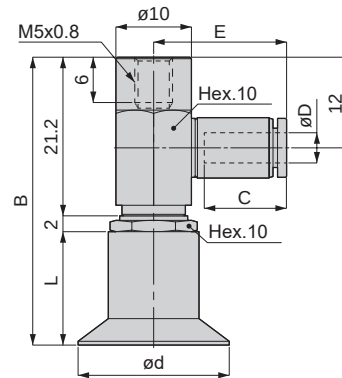
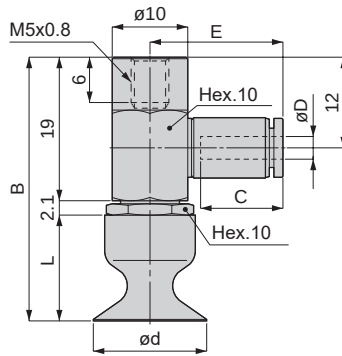
6

664

Dimensions (compact, fixed, vacuum outlet, lateral, VSP-MB, push-in fitting)

●VSP-MB4 to 15L^{*}-2/4/6

●VSP-MB20 to 40L^{*}-2/4/6



Unit: mm							
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB4L [*] -2	4	1.8	33.3	12.2	8.4	13.7	10
VSP-MB4L [*] -4		4			11.2	17.8	11
VSP-MB4L [*] -6		6			11.9	19.6	12
VSP-MB6L [*] -2	6	1.8	33.3	12.2	8.4	13.7	10
VSP-MB6L [*] -4		4			11.2	17.8	11
VSP-MB6L [*] -6		6			11.9	19.6	12
VSP-MB8L [*] -2	8	1.8	33.3	12.2	8.4	13.7	10
VSP-MB8L [*] -4		4			11.2	17.8	11
VSP-MB8L [*] -6		6			11.9	19.6	12
VSP-MB10L [*] -2	10	1.8	35.1	14	8.4	13.7	10
VSP-MB10L [*] -4		4			11.2	17.8	11
VSP-MB10L [*] -6		6			11.9	19.6	12
VSP-MB15L [*] -2	15	1.8	35.1	14	8.4	13.7	10
VSP-MB15L [*] -4		4			11.2	17.8	11
VSP-MB15L [*] -6		6			11.9	19.6	12
VSP-MB20L [*] -2	20	1.8	38.2	15	8.4	13.7	11
VSP-MB20L [*] -4		4			11.2	17.8	12
VSP-MB20L [*] -6		6			11.9	19.6	13
VSP-MB30L [*] -2	30	1.8	38.2	15	8.4	13.7	13
VSP-MB30L [*] -4		4			11.2	17.8	14
VSP-MB30L [*] -6		6			11.9	19.6	15
VSP-MB40L [*] -2	40	1.8	38.2	15	8.4	13.7	19
VSP-MB40L [*] -4		4			11.2	17.8	20
VSP-MB40L [*] -6		6			11.9	19.6	21

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

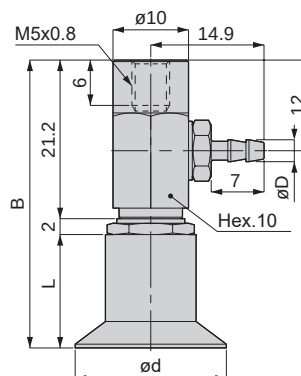
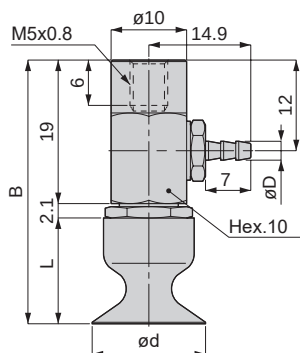
Flat

Suction mark
prevention

Dimensions (compact, fixed, vacuum outlet, side, VSP-MB, barbed fitting)

●VSP-MB4 to 15L*-4T/6T

●VSP-MB20 to 40L*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB4L*-4T	4	2.5	33.3	12.2	9
VSP-MB4L*-6T		4			
VSP-MB6L*-4T	6	2.5	33.3	12.2	8.9
VSP-MB6L*-6T		4			
VSP-MB8L*-4T	8	2.5	33.3	12.2	8.8
VSP-MB8L*-6T		4			
VSP-MB10L*-4T	10	2.5	35.1	14	8.9
VSP-MB10L*-6T		4			
VSP-MB15L*-4T	15	2.5	35.1	14	8.9
VSP-MB15L*-6T		4			
VSP-MB20L*-4T	20	2.5	38.2	15	11
VSP-MB20L*-6T		4			
VSP-MB30L*-4T	30	2.5	38.2	15	13
VSP-MB30L*-6T		4			
VSP-MB40L*-4T	40	2.5	38.2	15	19
VSP-MB40L*-6T		4			

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

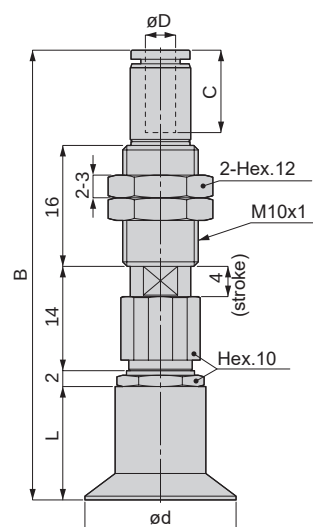
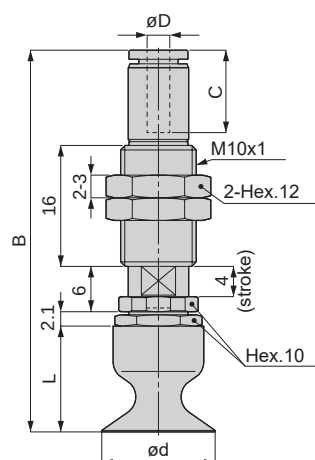
Flat

Suction mark
prevention

Dimensions (compact, buffer, vacuum outlet, top, VSP-MC, push-in fitting)

●VSP-MC4 to 15L^{*}-2/4

●VSP-MC20 to 40L^{*}-2/4



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC4L [*] -2	4	1.8	45.2	12.2	8.4	1 to 1.3	17
VSP-MC4L [*] -4		4	49.3		11.2		18
VSP-MC6L [*] -2	6	1.8	45.2	12.2	8.4	1 to 1.3	17
VSP-MC6L [*] -4		4	49.3		11.2		18
VSP-MC8L [*] -2	8	1.8	45.2	12.2	8.4	1 to 1.3	17
VSP-MC8L [*] -4		4	49.3		11.2		18
VSP-MC10L [*] -2	10	1.8	47	14	8.4	1 to 1.3	17
VSP-MC10L [*] -4		4	51.1		11.2		18
VSP-MC15L [*] -2	15	1.8	47	14	8.4	1 to 1.3	17
VSP-MC15L [*] -4		4	51.1		11.2		18
VSP-MC20L [*] -2	20	1.8	55.9	15	8.4	1 to 1.3	22
VSP-MC20L [*] -4		4	60		11.2		23
VSP-MC30L [*] -2	30	1.8	55.9	15	8.4	1 to 1.3	22
VSP-MC30L [*] -4		4	60		11.2		23
VSP-MC40L [*] -2	40	1.8	55.9	15	8.4	1 to 1.3	28
VSP-MC40L [*] -4		4	60		11.2		29

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

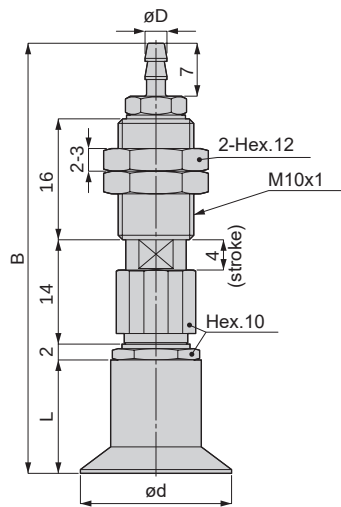
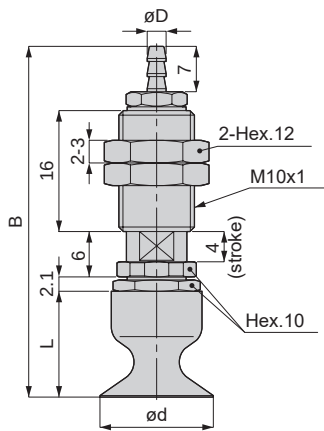
Flat

Suction mark
prevention

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

●VSP-MC4 to 15L*-4T/6T

●VSP-MC20 to 40L*-4T/6T

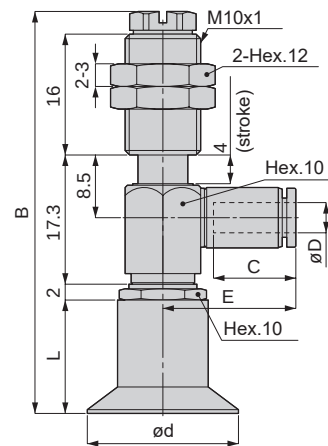
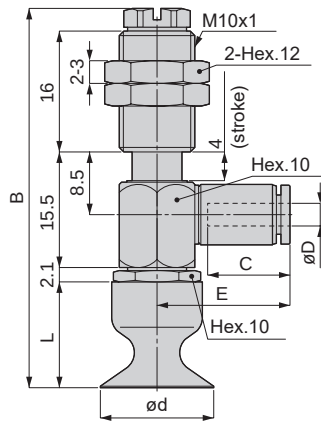


Unit: mm						
Model No.	Pad diameter Ød	Bore size ØD	B	L	Spring force (N)	Weight (g)
VSP-MC4L*-4T	4	2.5	46.4	12.2	0.5 to 0.6	17
VSP-MC4L*-6T		4				
VSP-MC6L*-4T	6	2.5	46.4	12.2	0.5 to 0.6	17
VSP-MC6L*-6T		4				
VSP-MC8L*-4T	8	2.5	46.4	12.2	0.5 to 0.6	17
VSP-MC8L*-6T		4				
VSP-MC10L*-4T	10	2.5	48.2	14	0.5 to 0.6	17
VSP-MC10L*-6T		4				
VSP-MC15L*-4T	15	2.5	48.2	14	0.5 to 0.6	17
VSP-MC15L*-6T		4				
VSP-MC20L*-4T	20	2.5	57.1	15	1 to 1.3	22
VSP-MC20L*-6T		4				
VSP-MC30L*-4T	30	2.5	57.1	15	1 to 1.3	24
VSP-MC30L*-6T		4				
VSP-MC40L*-4T	40	2.5	57.1	15	1 to 1.3	30
VSP-MC40L*-6T		4				

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

●VSP-MD4 to 15L^{*}-2/4/6

●VSP-MD20 to 40L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD4L [*] -2	4	1.8	48.8	12.2	8.4	13.6	1 to 1.3	25
VSP-MD4L [*] -4		4			11.2	17.7		26
VSP-MD4L [*] -6		6			11.9	19.5		27
VSP-MD6L [*] -2	6	1.8	48.8	12.2	8.4	13.6	1 to 1.3	25
VSP-MD6L [*] -4		4			11.2	17.7		26
VSP-MD6L [*] -6		6			11.9	19.5		27
VSP-MD8L [*] -2	8	1.8	48.8	12.2	8.4	13.6	1 to 1.3	25
VSP-MD8L [*] -4		4			11.2	17.7		26
VSP-MD8L [*] -6		6			11.9	19.5		27
VSP-MD10L [*] -2	10	1.8	50.6	14	8.4	13.6	1 to 1.3	25
VSP-MD10L [*] -4		4			11.2	17.7		26
VSP-MD10L [*] -6		6			11.9	19.5		27
VSP-MD15L [*] -2	15	1.8	50.6	14	8.4	13.6	1 to 1.3	25
VSP-MD15L [*] -4		4			11.2	17.7		26
VSP-MD15L [*] -6		6			11.9	19.5		27
VSP-MD20L [*] -2	20	1.8	53.3	15	8.4	13.6	1 to 1.3	26
VSP-MD20L [*] -4		4			11.2	17.7		27
VSP-MD20L [*] -6		6			11.9	19.5		28
VSP-MD30L [*] -2	30	1.8	53.3	15	8.4	13.6	1 to 1.3	27
VSP-MD30L [*] -4		4			11.2	17.7		28
VSP-MD30L [*] -6		6			11.9	19.5		29
VSP-MD40L [*] -2	40	1.8	53.3	15	8.4	13.6	1 to 1.3	33
VSP-MD40L [*] -4		4			11.2	17.7		34
VSP-MD40L [*] -6		6			11.9	19.5		35

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

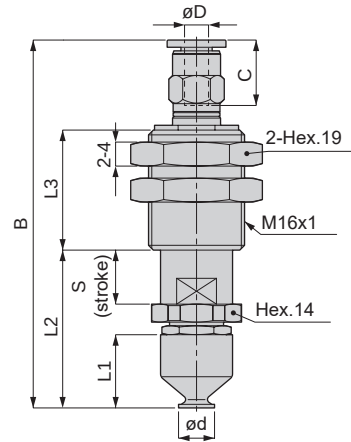
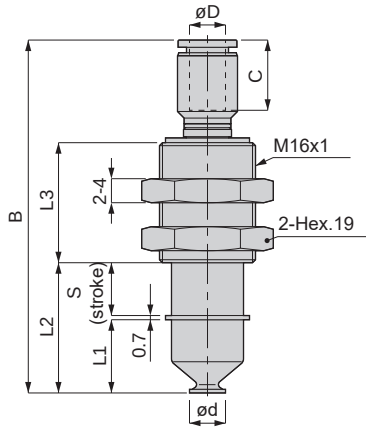
Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC4L^{*}-2/4/6

●VSP-HC4-□L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC4L [*] -2	4	1.8	53.1	12.2	21.9	20	8.4	9	0.9 to 2.7	19
VSP-HC4L [*] -4		4	57.1				11.2			20
VSP-HC4L [*] -6		6	58.4				11.9			21
VSP-HC4-10L [*] -2		1.8	59.9		27.3	21.5	8.4	10	1.0 to 2.4	24
VSP-HC4-10L [*] -4		4	64				11.2			25
VSP-HC4-10L [*] -6		6	65.3				11.9			26
VSP-HC4-15L [*] -2		1.8	69.9		32.3	26.5	8.4	15	1.0 to 2.7	26
VSP-HC4-15L [*] -4		4	74				11.2			27
VSP-HC4-15L [*] -6		6	75.3				11.9			28
VSP-HC4-20L [*] -2		1.8	79.9		37.3	31.5	8.4	20	1.0 to 3.0	28
VSP-HC4-20L [*] -4		4	84				11.2			29
VSP-HC4-20L [*] -6		6	85.3				11.9			30
VSP-HC4-25L [*] -2		1.8	90.4		42.3	37	8.4	25	1.0 to 3.0	30
VSP-HC4-25L [*] -4		4	94.5				11.2			31
VSP-HC4-25L [*] -6		6	95.8				11.9			32
VSP-HC4-30L [*] -2		1.8	101.4		47.3	43	8.4	30	1.0 to 3.0	32
VSP-HC4-30L [*] -4		4	105.5				11.2			33
VSP-HC4-30L [*] -6		6	106.8				11.9			34
VSP-HC4-40L [*] -2		1.8	123.4		57.3	55	8.4	40	1.0 to 3.0	35
VSP-HC4-40L [*] -4		4	127.5				11.2			36
VSP-HC4-40L [*] -6		6	128.8				11.9			37
VSP-HC4-50L [*] -2		1.8	144.9		67.3	66.5	8.4	50	1.0 to 3.1	39
VSP-HC4-50L [*] -4		4	149				11.2			40
VSP-HC4-50L [*] -6		6	150.3				11.9			41

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

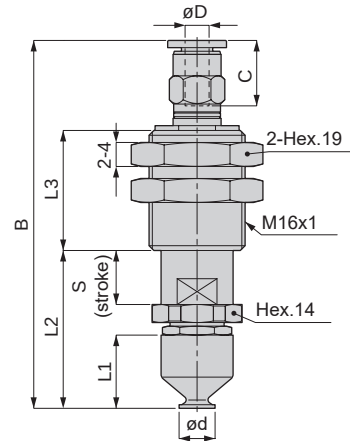
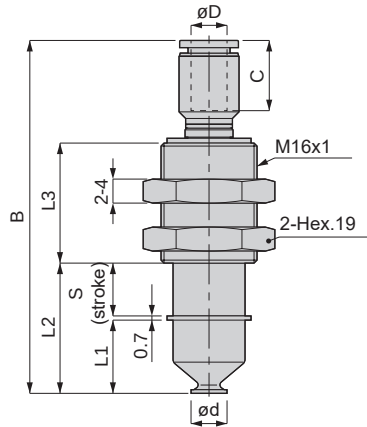
Suction mark
prevention

VSP-***L*** Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC6, 8L*-2/4/6

●VSP-HC6, 8-□L*-2/4/6



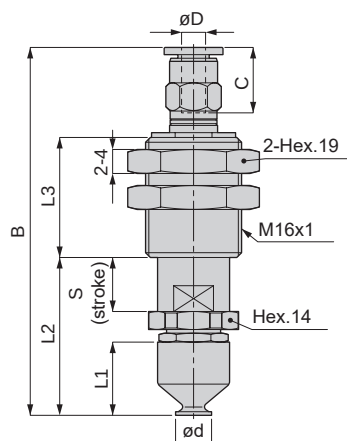
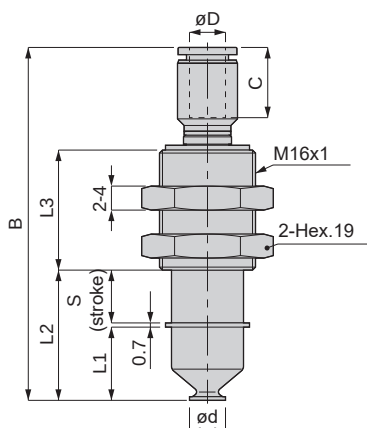
Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC6L*-2	6	1.8	53.1	12.2	21.9	20	8.4	9	0.9 to 2.7	20
	VSP-HC6L*-4		4	57.1				11.2			21
	VSP-HC6L*-6		6	58.4				11.9			22
Sponge	VSP-HC6-10L*-2		1.8	59.9		27.3	21.5	8.4	10	1.0 to 2.4	24
	VSP-HC6-10L*-4		4	64				11.2			25
	VSP-HC6-10L*-6		6	65.3				11.9			26
Bellows	VSP-HC6-15L*-2		1.8	69.9		32.3	26.5	8.4	15	1.0 to 2.7	26
	VSP-HC6-15L*-4		4	74				11.2			27
	VSP-HC6-15L*-6		6	75.3				11.9			28
Multi-stage bellows	VSP-HC6-20L*-2		1.8	79.9		37.3	31.5	8.4	20	1.0 to 3.0	28
	VSP-HC6-20L*-4		4	84				11.2			29
	VSP-HC6-20L*-6		6	85.3				11.9			30
Oval	VSP-HC6-25L*-2		1.8	90.4		42.3	37	8.4	25	1.0 to 3.0	30
	VSP-HC6-25L*-4		4	94.5				11.2			31
	VSP-HC6-25L*-6		6	95.8				11.9			32
Soft	VSP-HC6-30L*-2		1.8	101.4		47.3	43	8.4	30	1.0 to 3.0	32
	VSP-HC6-30L*-4		4	105.5				11.2			33
	VSP-HC6-30L*-6		6	106.8				11.9			34
Soft bellows	VSP-HC6-40L*-2		1.8	123.4		57.3	55	8.4	40	1.0 to 3.0	35
	VSP-HC6-40L*-4		4	127.5				11.2			36
	VSP-HC6-40L*-6		6	128.8				11.9			37
Anti-slip	VSP-HC6-50L*-2		1.8	144.9		67.3	66.5	8.4	50	1.0 to 3.1	39
	VSP-HC6-50L*-4		4	149				11.2			40
	VSP-HC6-50L*-6		6	150.3				11.9			41
Thin object	VSP-HC8L*-2	8	1.8	53.1	12.2	21.9	20	8.4	9	0.9 to 2.7	20
	VSP-HC8L*-4		4	57.1				11.2			21
	VSP-HC8L*-6		6	58.4				11.9			22
Flat	VSP-HC8-10L*-2		1.8	59.9		27.3	21.5	8.4	10	1.0 to 2.4	24
	VSP-HC8-10L*-4		4	64				11.2			25
	VSP-HC8-10L*-6		6	65.3				11.9			26
Suction mark prevention	VSP-HC8-15L*-2		1.8	69.9		32.3	26.5	8.4	15	1.0 to 2.7	26
	VSP-HC8-15L*-4		4	74				11.2			27
	VSP-HC8-15L*-6		6	75.3				11.9			28
	VSP-HC8-20L*-2		1.8	79.9		37.3	31.5	8.4	20	1.0 to 3.0	28
	VSP-HC8-20L*-4		4	84				11.2			29
	VSP-HC8-20L*-6		6	85.3				11.9			30
	VSP-HC8-25L*-2		1.8	90.4		42.3	37	8.4	25	1.0 to 3.0	30
	VSP-HC8-25L*-4		4	94.5				11.2			31
	VSP-HC8-25L*-6		6	95.8				11.9			32
	VSP-HC8-30L*-2		1.8	101.4		47.3	43	8.4	30	1.0 to 3.0	32
	VSP-HC8-30L*-4		4	105.5				11.2			33
	VSP-HC8-30L*-6		6	106.8				11.9			34
	VSP-HC8-40L*-2		1.8	123.4		57.3	55	8.4	40	1.0 to 3.0	35
	VSP-HC8-40L*-4		4	127.5				11.2			36
	VSP-HC8-40L*-6		6	128.8				11.9			37
	VSP-HC8-50L*-2		1.8	144.9		67.3	66.5	8.4	50	1.0 to 3.1	39
	VSP-HC8-50L*-4		4	149				11.2			40
	VSP-HC8-50L*-6		6	150.3				11.9			41

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC10, 15L^{*}-2/4/6

●VSP-HC10, 15-□L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10L [*] -2	10	1.8	54.9	14	23.7	20	8.4	9	0.9 to 2.7	20
VSP-HC10L [*] -4		4	58.9				11.2			21
VSP-HC10L [*] -6		6	60.2				11.9			22
VSP-HC10-10L [*] -2		1.8	61.7		29.1	21.5	8.4	10	1.0 to 2.4	24
VSP-HC10-10L [*] -4		4	65.8				11.2			25
VSP-HC10-10L [*] -6		6	67.1				11.9			26
VSP-HC10-15L [*] -2		1.8	71.7		34.1	26.5	8.4	15	1.0 to 2.7	26
VSP-HC10-15L [*] -4		4	75.8				11.2			27
VSP-HC10-15L [*] -6		6	77.1				11.9			28
VSP-HC10-20L [*] -2		1.8	81.7		39.1	31.5	8.4	20	1.0 to 3.0	28
VSP-HC10-20L [*] -4		4	85.8				11.2			29
VSP-HC10-20L [*] -6		6	87.1				11.9			30
VSP-HC10-25L [*] -2		1.8	92.2		44.1	37	8.4	25	1.0 to 3.0	30
VSP-HC10-25L [*] -4		4	96.3				11.2			31
VSP-HC10-25L [*] -6		6	97.6				11.9			32
VSP-HC10-30L [*] -2		1.8	103.2		49.1	43	8.4	30	1.0 to 3.0	32
VSP-HC10-30L [*] -4		4	107.3				11.2			33
VSP-HC10-30L [*] -6		6	108.6				11.9			34
VSP-HC10-40L [*] -2		1.8	125.2		59.1	55	8.4	40	1.0 to 3.0	35
VSP-HC10-40L [*] -4		4	129.3				11.2			36
VSP-HC10-40L [*] -6		6	130.6				11.9			37
VSP-HC10-50L [*] -2		1.8	146.7		69.1	66.5	8.4	50	1.0 to 3.1	39
VSP-HC10-50L [*] -4		4	150.8				11.2			40
VSP-HC10-50L [*] -6		6	152.1				11.9			41
VSP-HC15L [*] -2	15	1.8	54.9	14	23.7	20	8.4	9	0.9 to 2.7	20
VSP-HC15L [*] -4		4	58.9				11.2			21
VSP-HC15L [*] -6		6	60.2				11.9			22
VSP-HC15-10L [*] -2		1.8	61.7		29.1	21.5	8.4	10	1.0 to 2.4	24
VSP-HC15-10L [*] -4		4	65.8				11.2			25
VSP-HC15-10L [*] -6		6	67.1				11.9			26
VSP-HC15-15L [*] -2		1.8	71.7		34.1	26.5	8.4	15	1.0 to 2.7	26
VSP-HC15-15L [*] -4		4	75.8				11.2			27
VSP-HC15-15L [*] -6		6	77.1				11.9			28
VSP-HC15-20L [*] -2		1.8	81.7		39.1	31.5	8.4	20	1.0 to 3.0	28
VSP-HC15-20L [*] -4		4	85.8				11.2			29
VSP-HC15-20L [*] -6		6	87.1				11.9			30
VSP-HC15-25L [*] -2		1.8	92.2		44.1	37	8.4	25	1.0 to 3.0	30
VSP-HC15-25L [*] -4		4	96.3				11.2			31
VSP-HC15-25L [*] -6		6	97.6				11.9			32
VSP-HC15-30L [*] -2		1.8	103.2		49.1	43	8.4	30	1.0 to 3.0	32
VSP-HC15-30L [*] -4		4	107.3				11.2			33
VSP-HC15-30L [*] -6		6	108.6				11.9			34
VSP-HC15-40L [*] -2		1.8	125.2		59.1	55	8.4	40	1.0 to 3.0	35
VSP-HC15-40L [*] -4		4	129.3				11.2			36
VSP-HC15-40L [*] -6		6	130.6				11.9			37
VSP-HC15-50L [*] -2		1.8	146.7		69.1	66.5	8.4	50	1.0 to 3.1	39
VSP-HC15-50L [*] -4		4	150.8				11.2			40
VSP-HC15-50L [*] -6		6	152.1				11.9			41

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

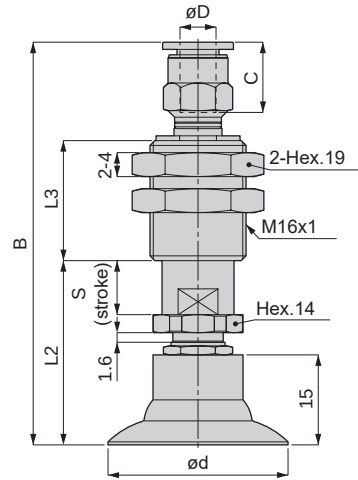
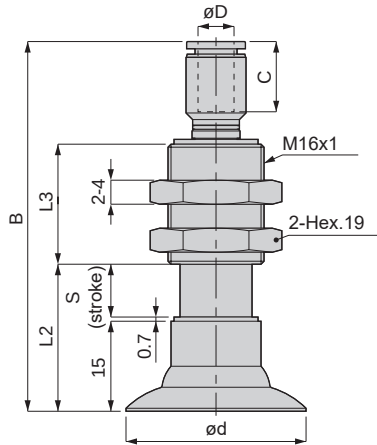
Suction mark
prevention

VSP-*L* Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC20, 30L*-2/4/6

●VSP-HC20, 30-□L*-2/4/6



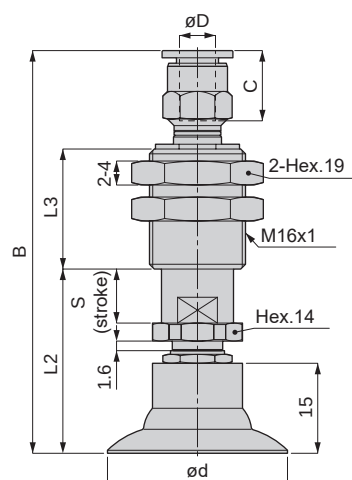
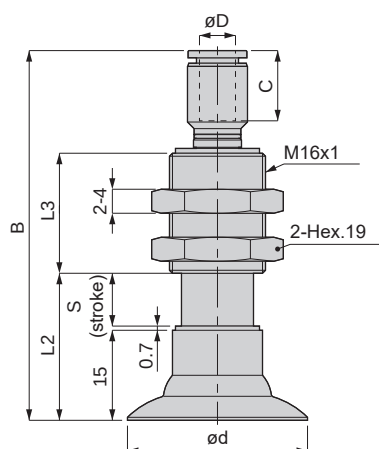
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC20L*-2	20	1.8	55.9	15	24.7	20	8.4	9	0.9 to 2.7	21
	VSP-HC20L*-4		4	59.9				11.2			22
	VSP-HC20L*-6		6	61.2				11.9			23
Sponge	VSP-HC20-10L*-2		1.8	64.2		30	21.5	8.4	10	1.0 to 2.4	27
	VSP-HC20-10L*-4		4	68.3				11.2			28
	VSP-HC20-10L*-6		6	69.6				11.9			29
Bellows	VSP-HC20-15L*-2		1.8	74.2		35	26.5	8.4	15	1.0 to 2.7	29
	VSP-HC20-15L*-4		4	78.3				11.2			30
	VSP-HC20-15L*-6		6	79.6				11.9			31
Multi-stage bellows	VSP-HC20-20L*-2		1.8	84.2		40	31.5	8.4	20	1.0 to 3.0	31
	VSP-HC20-20L*-4		4	88.3				11.2			32
	VSP-HC20-20L*-6		6	89.6				11.9			33
Oval	VSP-HC20-25L*-2		1.8	94.7		45	37	8.4	25	1.0 to 3.0	33
	VSP-HC20-25L*-4		4	98.8				11.2			34
	VSP-HC20-25L*-6		6	100.1				11.9			35
Soft	VSP-HC20-30L*-2		1.8	105.7		50	43	8.4	30	1.0 to 3.0	35
	VSP-HC20-30L*-4		4	109.8				11.2			36
	VSP-HC20-30L*-6		6	111.1				11.9			37
Soft bellows	VSP-HC20-40L*-2		1.8	127.7		60	55	8.4	40	1.0 to 3.0	39
	VSP-HC20-40L*-4		4	131.8				11.2			40
	VSP-HC20-40L*-6		6	133.1				11.9			41
Anti-slip	VSP-HC20-50L*-2		1.8	149.2		70	66.5	8.4	50	1.0 to 3.1	43
	VSP-HC20-50L*-4		4	153.3				11.2			44
	VSP-HC20-50L*-6		6	154.6				11.9			45
Thin object	VSP-HC30L*-2	30	1.8	55.9	15	24.7	20	8.4	9	0.9 to 2.7	22
	VSP-HC30L*-4		4	59.9				11.2			23
	VSP-HC30L*-6		6	61.2				11.9			24
Flat	VSP-HC30-10L*-2		1.8	64.2		30	21.5	8.4	10	1.0 to 2.4	29
	VSP-HC30-10L*-4		4	68.3				11.2			30
	VSP-HC30-10L*-6		6	69.6				11.9			31
Suction mark prevention	VSP-HC30-15L*-2		1.8	74.2		35	26.5	8.4	15	1.0 to 2.7	31
	VSP-HC30-15L*-4		4	78.3				11.2			32
	VSP-HC30-15L*-6		6	79.6				11.9			33
	VSP-HC30-20L*-2		1.8	84.2		40	31.5	8.4	20	1.0 to 3.0	33
	VSP-HC30-20L*-4		4	88.3				11.2			34
	VSP-HC30-20L*-6		6	89.6				11.9			35
	VSP-HC30-25L*-2		1.8	94.7		45	37	8.4	25	1.0 to 3.0	35
	VSP-HC30-25L*-4		4	98.8				11.2			36
	VSP-HC30-25L*-6		6	100.1				11.9			37
	VSP-HC30-30L*-2		1.8	105.7		50	43	8.4	30	1.0 to 3.0	37
	VSP-HC30-30L*-4		4	109.8				11.2			38
	VSP-HC30-30L*-6		6	111.1				11.9			39
	VSP-HC30-40L*-2		1.8	127.7		60	55	8.4	40	1.0 to 3.0	41
	VSP-HC30-40L*-4		4	131.8				11.2			42
	VSP-HC30-40L*-6		6	133.1				11.9			43
	VSP-HC30-50L*-2		1.8	149.2		70	66.5	8.4	50	1.0 to 3.1	45
	VSP-HC30-50L*-4		4	153.3				11.2			46
	VSP-HC30-50L*-6		6	154.6				11.9			47

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC40L^{*}-2/4/6

●VSP-HC40-□L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC40L [*] -2	40	1.8	55.9	15	24.7	20	8.4	9	0.9 to 2.7	26
VSP-HC40L [*] -4		4	59.9				11.2			27
VSP-HC40L [*] -6		6	61.2				11.9			28
VSP-HC40-10L [*] -2		1.8	64.2		30	21.5	8.4	10	1.0 to 2.4	33
VSP-HC40-10L [*] -4		4	68.3				11.2			34
VSP-HC40-10L [*] -6		6	69.6				11.9			35
VSP-HC40-15L [*] -2		1.8	74.2		35	26.5	8.4	15	1.0 to 2.7	35
VSP-HC40-15L [*] -4		4	78.3				11.2			36
VSP-HC40-15L [*] -6		6	79.6				11.9			37
VSP-HC40-20L [*] -2		1.8	84.2		40	31.5	8.4	20	1.0 to 3.0	37
VSP-HC40-20L [*] -4		4	88.3				11.2			38
VSP-HC40-20L [*] -6		6	89.6				11.9			39
VSP-HC40-25L [*] -2		1.8	94.7		45	37	8.4	25	1.0 to 3.0	39
VSP-HC40-25L [*] -4		4	98.8				11.2			40
VSP-HC40-25L [*] -6		6	100.1				11.9			41
VSP-HC40-30L [*] -2		1.8	105.7		50	43	8.4	30	1.0 to 3.0	41
VSP-HC40-30L [*] -4		4	109.8				11.2			42
VSP-HC40-30L [*] -6		6	111.1				11.9			43
VSP-HC40-40L [*] -2		1.8	127.7		60	55	8.4	40	1.0 to 3.0	45
VSP-HC40-40L [*] -4		4	131.8				11.2			46
VSP-HC40-40L [*] -6		6	133.1				11.9			47
VSP-HC40-50L [*] -2		1.8	149.2		70	66.5	8.4	50	1.0 to 3.1	49
VSP-HC40-50L [*] -4		4	153.3				11.2			50
VSP-HC40-50L [*] -6		6	154.6				11.9			51

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

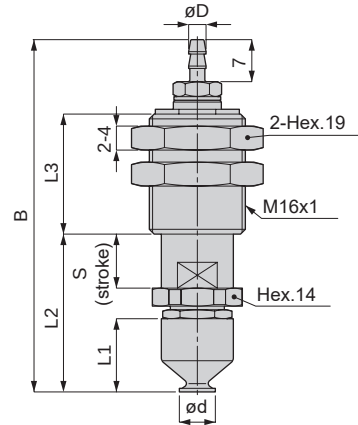
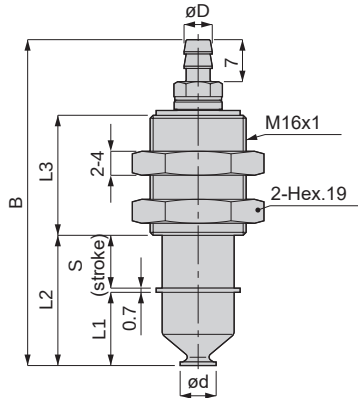
Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC4 to 8L*-4T/6T

●VSP-HC4 to 8-□L*-4T/6T



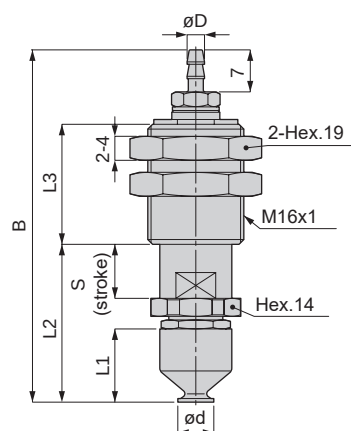
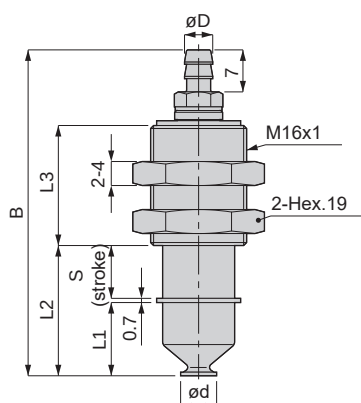
Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)	
General/Deep/ Compact	VSP-HC4L*-4T	4	2.5	54.3	12.2	21.9	20	9	0.9 to 2.7	18	
	VSP-HC4L*-6T		4								
VSP-HC4-10L*-4T	2.5		61.1	27.3		21.5	10	1.0 to 2.4	23		
VSP-HC4-10L*-6T	4										
Sponge	VSP-HC4-15L*-4T		2.5	71.1		32.3	26.5	15	1.0 to 2.7	25	
	VSP-HC4-15L*-6T		4								
Bellows	VSP-HC4-20L*-4T		2.5	81.1		37.3	31.5	20	1.0 to 3.0	27	
	VSP-HC4-20L*-6T		4								
	VSP-HC4-25L*-4T		2.5	91.6		42.3	37	25	1.0 to 3.0	30	
	VSP-HC4-25L*-6T		4								
Multi-stage bellows	VSP-HC4-30L*-4T		2.5	102.6		47.3	43	30	1.0 to 3.0	32	
	VSP-HC4-30L*-6T		4								
	VSP-HC4-40L*-4T		2.5	124.6		57.3	55	40	1.0 to 3.0	36	
	VSP-HC4-40L*-6T		4								
Oval	VSP-HC4-50L*-4T		2.5	146.1		67.3	66.5	50	1.0 to 3.1	40	
	VSP-HC4-50L*-6T		4								
	Soft	VSP-HC6L*-4T	6	2.5	54.3	12.2	21.9	20	9	0.9 to 2.7	20
		VSP-HC6L*-6T		4							
Soft bellows	VSP-HC6-10L*-4T	2.5		61.1	27.3		21.5	10	1.0 to 2.4	24	
	VSP-HC6-10L*-6T	4									
	VSP-HC6-15L*-4T	2.5		71.1	32.3		26.5	15	1.0 to 2.7	26	
	VSP-HC6-15L*-6T	4									
Anti-slip	VSP-HC6-20L*-4T	2.5		81.1	37.3		31.5	20	1.0 to 3.0	28	
	VSP-HC6-20L*-6T	4									
	VSP-HC6-25L*-4T	2.5		91.6	42.3		37	25	1.0 to 3.0	31	
	VSP-HC6-25L*-6T	4									
Thin object	VSP-HC6-30L*-4T	2.5		102.6	47.3		43	30	1.0 to 3.0	33	
	VSP-HC6-30L*-6T	4									
	VSP-HC6-40L*-4T	2.5		124.6	57.3		55	40	1.0 to 3.0	37	
	VSP-HC6-40L*-6T	4									
Flat	VSP-HC6-50L*-4T	2.5		146.1	67.3		66.5	50	1.0 to 3.1	41	
	VSP-HC6-50L*-6T	4									
Suction mark prevention	VSP-HC8L*-4T	8	2.5	54.3	12.2	21.9	20	9	0.9 to 2.7	20	
	VSP-HC8L*-6T		4								
Thin object	VSP-HC8-10L*-4T		2.5	61.1		27.3	21.5	10	1.0 to 2.4	24	
	VSP-HC8-10L*-6T		4								
	VSP-HC8-15L*-4T		2.5	71.1		32.3	26.5	15	1.0 to 2.7	26	
	VSP-HC8-15L*-6T		4								
Suction mark prevention	VSP-HC8-20L*-4T		2.5	81.1		37.3	31.5	20	1.0 to 3.0	28	
	VSP-HC8-20L*-6T		4								
	VSP-HC8-25L*-4T		2.5	91.6		42.3	37	25	1.0 to 3.0	31	
	VSP-HC8-25L*-6T		4								
Thin object	VSP-HC8-30L*-4T		2.5	102.6		47.3	43	30	1.0 to 3.0	33	
	VSP-HC8-30L*-6T		4								
	VSP-HC8-40L*-4T		2.5	124.6		57.3	55	40	1.0 to 3.0	37	
	VSP-HC8-40L*-6T		4								
Thin object	VSP-HC8-50L*-4T		2.5	146.1		67.3	66.5	50	1.0 to 3.1	41	
	VSP-HC8-50L*-6T		4								

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC10, 15L^{*}-4T/6T

●VSP-HC10, 15-□L^{*}-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10L*-4T	10	2.5	56.1	14	23.7	20	9	0.9 to 2.7	20
VSP-HC10L*-6T		4							
VSP-HC10-10L*-4T		2.5	62.9		29.1	21.5	10	1.0 to 2.4	24
VSP-HC10-10L*-6T		4							
VSP-HC10-15L*-4T		2.5	72.9		34.1	26.5	15	1.0 to 2.7	26
VSP-HC10-15L*-6T		4							
VSP-HC10-20L*-4T		2.5	82.9		39.1	31.5	20	1.0 to 3.0	28
VSP-HC10-20L*-6T		4							
VSP-HC10-25L*-4T		2.5	93.4		44.1	37	25	1.0 to 3.0	31
VSP-HC10-25L*-6T		4							
VSP-HC10-30L*-4T		2.5	104.4		49.1	43	30	1.0 to 3.0	33
VSP-HC10-30L*-6T		4							
VSP-HC10-40L*-4T		2.5	126.4		59.1	55	40	1.0 to 3.0	37
VSP-HC10-40L*-6T		4							
VSP-HC10-50L*-4T		2.5	147.9		69.1	66.5	50	1.0 to 3.1	41
VSP-HC10-50L*-6T		4							
VSP-HC15L*-4T	15	2.5	56.1	14	23.7	20	9	0.9 to 2.7	20
VSP-HC15L*-6T		4							
VSP-HC15-10L*-4T		2.5	62.9		29.1	21.5	10	1.0 to 2.4	24
VSP-HC15-10L*-6T		4							
VSP-HC15-15L*-4T		2.5	72.9		34.1	26.5	15	1.0 to 2.7	26
VSP-HC15-15L*-6T		4							
VSP-HC15-20L*-4T		2.5	82.9		39.1	31.5	20	1.0 to 3.0	28
VSP-HC15-20L*-6T		4							
VSP-HC15-25L*-4T		2.5	93.4		44.1	37	25	1.0 to 3.0	31
VSP-HC15-25L*-6T		4							
VSP-HC15-30L*-4T		2.5	104.4		49.1	43	30	1.0 to 3.0	33
VSP-HC15-30L*-6T		4							
VSP-HC15-40L*-4T		2.5	126.4		59.1	55	40	1.0 to 3.0	37
VSP-HC15-40L*-6T		4							
VSP-HC15-50L*-4T		2.5	147.9		69.1	66.5	50	1.0 to 3.1	41
VSP-HC15-50L*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

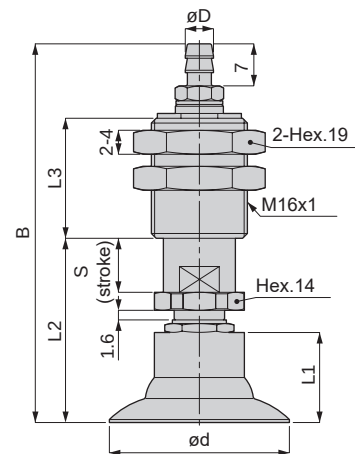
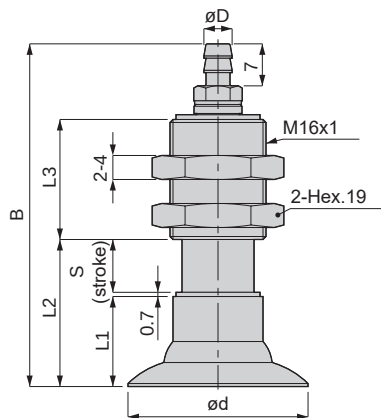
Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC20 to 40L*-4T/6T

●VSP-HC20 to 40-□L*-4T/6T



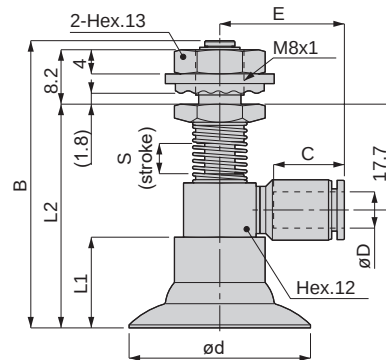
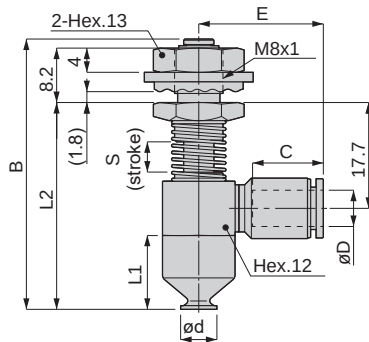
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC20L*-4T	20	2.5	57.1	15	24.7	20	9	0.9 to 2.7	21
VSP-HC20L*-6T		4							
VSP-HC20-10L*-4T		2.5	65.4		30	21.5	10	1.0 to 2.4	26
VSP-HC20-10L*-6T		4							
VSP-HC20-15L*-4T		2.5	75.4		35	26.5	15	1.0 to 2.7	28
VSP-HC20-15L*-6T		4							
VSP-HC20-20L*-4T		2.5	85.4		40	31.5	20	1.0 to 3.0	30
VSP-HC20-20L*-6T		4							
VSP-HC20-25L*-4T		2.5	95.9		45	37	25	1.0 to 3.0	32
VSP-HC20-25L*-6T		4							
VSP-HC20-30L*-4T		2.5	106.9		50	43	30	1.0 to 3.0	35
VSP-HC20-30L*-6T		4							
VSP-HC20-40L*-4T		2.5	128.9		60	55	40	1.0 to 3.0	39
VSP-HC20-40L*-6T		4							
VSP-HC20-50L*-4T		2.5	150.4		70	66.5	50	1.0 to 3.1	43
VSP-HC20-50L*-6T		4							
VSP-HC30L*-4T	30	2.5	57.1	15	24.7	20	9	0.9 to 2.7	23
VSP-HC30L*-6T		4							
VSP-HC30-10L*-4T		2.5	65.4		30	21.5	10	1.0 to 2.4	28
VSP-HC30-10L*-6T		4							
VSP-HC30-15L*-4T		2.5	75.4		35	26.5	15	1.0 to 2.7	30
VSP-HC30-15L*-6T		4							
VSP-HC30-20L*-4T		2.5	85.4		40	31.5	20	1.0 to 3.0	32
VSP-HC30-20L*-6T		4							
VSP-HC30-25L*-4T		2.5	95.9		45	37	25	1.0 to 3.0	34
VSP-HC30-25L*-6T		4							
VSP-HC30-30L*-4T		2.5	106.9		50	43	30	1.0 to 3.0	37
VSP-HC30-30L*-6T		4							
VSP-HC30-40L*-4T		2.5	128.9		60	55	40	1.0 to 3.0	41
VSP-HC30-40L*-6T		4							
VSP-HC30-50L*-4T		2.5	150.4		70	66.5	50	1.0 to 3.1	45
VSP-HC30-50L*-6T		4							
VSP-HC40L*-4T	40	2.5	57.1	15	24.7	20	9	0.9 to 2.7	27
VSP-HC40L*-6T		4							
VSP-HC40-10L*-4T		2.5	65.4		30	21.5	10	1.0 to 2.4	32
VSP-HC40-10L*-6T		4							
VSP-HC40-15L*-4T		2.5	75.4		35	26.5	15	1.0 to 2.7	34
VSP-HC40-15L*-6T		4							
VSP-HC40-20L*-4T		2.5	85.4		40	31.5	20	1.0 to 3.0	36
VSP-HC40-20L*-6T		4							
VSP-HC40-25L*-4T		2.5	95.9		45	37	25	1.0 to 3.0	38
VSP-HC40-25L*-6T		4							
VSP-HC40-30L*-4T		2.5	106.9		50	43	30	1.0 to 3.0	41
VSP-HC40-30L*-6T		4							
VSP-HC40-40L*-4T		2.5	128.9		60	55	40	1.0 to 3.0	45
VSP-HC40-40L*-6T		4							
VSP-HC40-50L*-4T		2.5	150.4		70	66.5	50	1.0 to 3.1	49
VSP-HC40-50L*-6T		4							

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, push-in fitting)

●VSP-HD4 to 15L^{*}-2/4/6

●VSP-HD20 to 40L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD4L [*] -2	4	1.8	44.7	12.2	34.4	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD4L [*] -4		4				11.2	18.8			30
VSP-HD4L [*] -6		6				11.9	20.6			31
VSP-HD6L [*] -2	6	1.8	44.7	12.2	34.4	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD6L [*] -4		4				11.2	18.8			30
VSP-HD6L [*] -6		6				11.9	20.6			31
VSP-HD8L [*] -2	8	1.8	44.7	12.2	34.4	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD8L [*] -4		4				11.2	18.8			30
VSP-HD8L [*] -6		6				11.9	20.6			31
VSP-HD10L [*] -2	10	1.8	46.5	14	36.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD10L [*] -4		4				11.2	18.8			30
VSP-HD10L [*] -6		6				11.9	20.6			31
VSP-HD15L [*] -2	15	1.8	46.5	14	36.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD15L [*] -4		4				11.2	18.8			30
VSP-HD15L [*] -6		6				11.9	20.6			31
VSP-HD20L [*] -2	20	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HD20L [*] -4		4				11.2	18.8			32
VSP-HD20L [*] -6		6				11.9	20.6			33
VSP-HD30L [*] -2	30	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HD30L [*] -4		4				11.2	18.8			34
VSP-HD30L [*] -6		6				11.9	20.6			35
VSP-HD40L [*] -2	40	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HD40L [*] -4		4				11.2	18.8			38
VSP-HD40L [*] -6		6				11.9	20.6			39

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

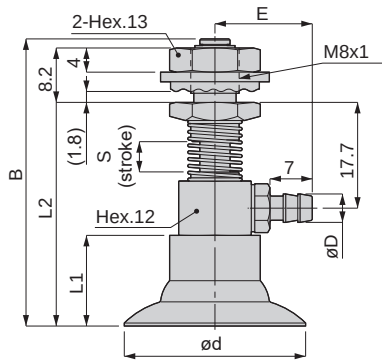
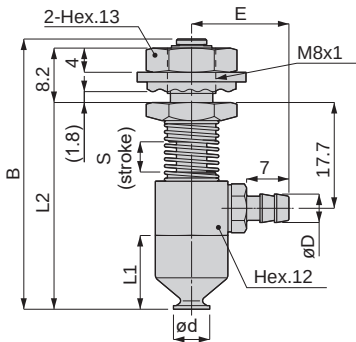
Suction mark prevention

VSP-***L*** Series

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, barbed fitting)

●VSP-HD4 to 15L*-4T/6T

●VSP-HD20 to 40L*-4T/6T

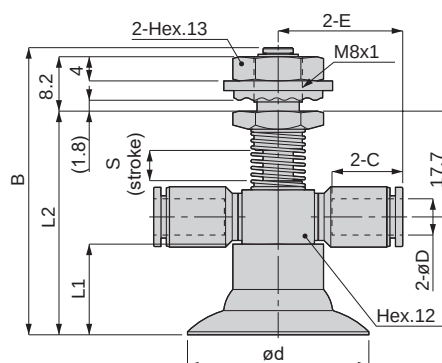
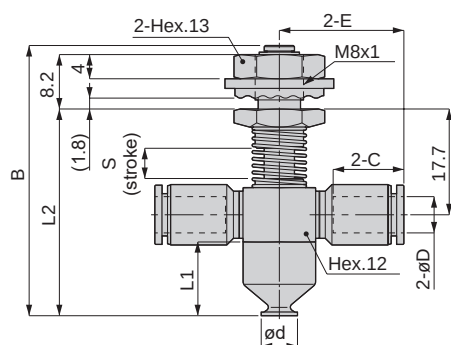


General/Deep/ Compact	Unit: mm									
	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
Sponge	VSP-HD4L*-4T	4	2.5	44.7	12.2	34.4	15.9	5.2	1.6 to 2.9	27
	VSP-HD4L*-6T		4							
	VSP-HD6L*-4T	6	2.5	44.7	12.2	34.4	15.9	5.2	1.6 to 2.9	30
	VSP-HD6L*-6T		4							
Bellows	VSP-HD8L*-4T	8	2.5	44.7	12.2	34.4	15.9	5.2	1.6 to 2.9	30
	VSP-HD8L*-6T		4							
	VSP-HD10L*-4T	10	2.5	46.5	14	36.2	15.9	5.2	1.6 to 2.9	30
	VSP-HD10L*-6T		4							
Multi-stage bellows	VSP-HD15L*-4T	15	2.5	46.5	14	36.2	15.9	5.2	1.6 to 2.9	30
	VSP-HD15L*-6T		4							
	VSP-HD20L*-4T	20	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	32
	VSP-HD20L*-6T		4							
Oval	VSP-HD30L*-4T	30	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	33
	VSP-HD30L*-6T		4							
Soft	VSP-HD40L*-4T	40	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	37
	VSP-HD40L*-6T		4							
Soft bellows										
Anti-slip										
Thin object										
Flat										
Suction mark prevention										

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW4 to 15L^{*}-2/4/6

●VSP-HDW20 to 40L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW4L [*] -2	4	1.8	44.7	12.2	34.4	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW4L [*] -4		4				11.2	18.8			30
VSP-HDW4L [*] -6		6				11.9	20.6			31
VSP-HDW6L [*] -2	6	1.8	44.7	12.2	34.4	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW6L [*] -4		4				11.2	18.8			30
VSP-HDW6L [*] -6		6				11.9	20.6			31
VSP-HDW8L [*] -2	8	1.8	44.7	12.2	34.4	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW8L [*] -4		4				11.2	18.8			30
VSP-HDW8L [*] -6		6				11.9	20.6			31
VSP-HDW10L [*] -2	10	1.8	46.5	14	36.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW10L [*] -4		4				11.2	18.8			30
VSP-HDW10L [*] -6		6				11.9	20.6			31
VSP-HDW15L [*] -2	15	1.8	46.5	14	36.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW15L [*] -4		4				11.2	18.8			30
VSP-HDW15L [*] -6		6				11.9	20.6			31
VSP-HDW20L [*] -2	20	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HDW20L [*] -4		4				11.2	18.8			32
VSP-HDW20L [*] -6		6				11.9	20.6			33
VSP-HDW30L [*] -2	30	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HDW30L [*] -4		4				11.2	18.8			34
VSP-HDW30L [*] -6		6				11.9	20.6			35
VSP-HDW40L [*] -2	40	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	37
VSP-HDW40L [*] -4		4				11.2	18.8			38
VSP-HDW40L [*] -6		6				11.9	20.6			39

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

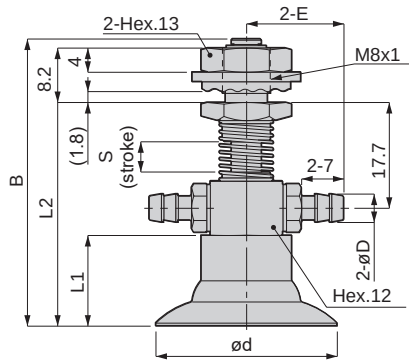
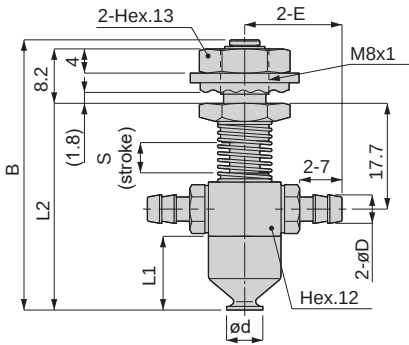
Suction mark
prevention

VSP-***L*** Series

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW4 to 15L*-4T/6T

●VSP-HDW20 to 40L*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW4L*-4T	4	2.5	44.7	12.2	34.4	15.9	5.2	1.6 to 2.9	27
VSP-HDW4L*-6T		4							
VSP-HDW6L*-4T	6	2.5	44.7	12.2	34.4	15.9	5.2	1.6 to 2.9	30
VSP-HDW6L*-6T		4							
VSP-HDW8L*-4T	8	2.5	44.7	12.2	34.4	15.9	5.2	1.6 to 2.9	30
VSP-HDW8L*-6T		4							
VSP-HDW10L*-4T	10	2.5	46.5	14	36.2	15.9	5.2	1.6 to 2.9	30
VSP-HDW10L*-6T		4							
VSP-HDW15L*-4T	15	2.5	46.5	14	36.2	15.9	5.2	1.6 to 2.9	30
VSP-HDW15L*-6T		4							
VSP-HDW20L*-4T	20	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	32
VSP-HDW20L*-6T		4							
VSP-HDW30L*-4T	30	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	33
VSP-HDW30L*-6T		4							
VSP-HDW40L*-4T	40	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	37
VSP-HDW40L*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

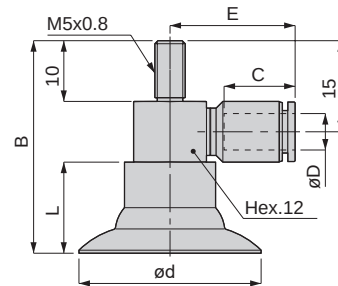
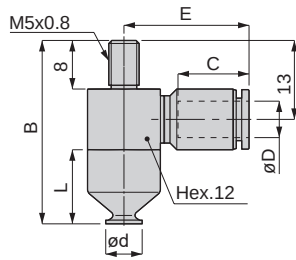
Flat

Suction mark
prevention

Dimensions (low back fixed, vacuum outlet side VSP-HE, push-in fitting)

●VSP-HE4 to 15L^{*}-2/4/6

●VSP-HE20 to 40L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	E	Weight (g)
VSP-HE4L [*] -2	4	1.8	30.2	12.2	8.4	14.7	14
VSP-HE4L [*] -4		4			11.2	18.8	15
VSP-HE4L [*] -6		6			11.9	20.6	16
VSP-HE6L [*] -2	6	1.8	30.2	12.2	8.4	14.7	15
VSP-HE6L [*] -4		4			11.2	18.8	16
VSP-HE6L [*] -6		6			11.9	20.6	17
VSP-HE8L [*] -2	8	1.8	30.2	12.2	8.4	14.7	15
VSP-HE8L [*] -4		4			11.2	18.8	16
VSP-HE8L [*] -6		6			11.9	20.6	17
VSP-HE10L [*] -2	10	1.8	32	12.2	8.4	14.7	14
VSP-HE10L [*] -4		4			11.2	18.8	15
VSP-HE10L [*] -6		6			11.9	20.6	17
VSP-HE15L [*] -2	15	1.8	32	14	8.4	14.7	14
VSP-HE15L [*] -4		4			11.2	18.8	15
VSP-HE15L [*] -6		6			11.9	20.6	17
VSP-HE20L [*] -2	20	1.8	35	14	8.4	14.7	17
VSP-HE20L [*] -4		4			11.2	18.8	18
VSP-HE20L [*] -6		6			11.9	20.6	19
VSP-HE30L [*] -2	30	1.8	35	15	8.4	14.7	19
VSP-HE30L [*] -4		4			11.2	18.8	20
VSP-HE30L [*] -6		6			11.9	20.6	21
VSP-HE40L [*] -2	40	1.8	35	15	8.4	14.7	23
VSP-HE40L [*] -4		4			11.2	18.8	24
VSP-HE40L [*] -6		6			11.9	20.6	25

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

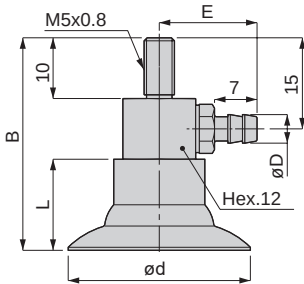
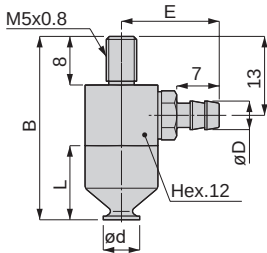
Suction mark
prevention

VSP-***L*** Series

Dimensions (low back fixed, vacuum outlet side VSP-HE, barbed fitting)

●VSP-HE4 to 15L*-4T/6T

●VSP-HE20 to 40L*-4T/6T



Unit: mm

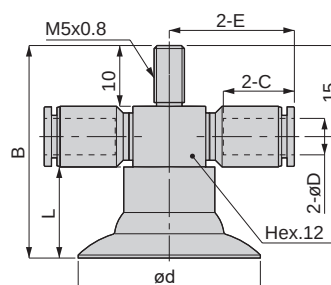
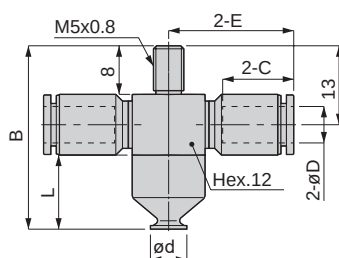
Model No.	Pad diameter Ød	Bore size ØD	B	L	E	Weight (g)
VSP-HE4L*-4T	4	2.5	30.2	12.2	15.9	13
VSP-HE4L*-6T		4				
VSP-HE6L*-4T	6	2.5	30.2	12.2	15.9	15
VSP-HE6L*-6T		4				
VSP-HE8L*-4T	8	2.5	30.2	12.2	15.9	15
VSP-HE8L*-6T		4				
VSP-HE10L*-4T	10	2.5	32	14	15.9	15
VSP-HE10L*-6T		4				
VSP-HE15L*-4T	15	2.5	32	14	15.9	15
VSP-HE15L*-6T		4				
VSP-HE20L*-4T	20	2.5	35	15	15.9	18
VSP-HE20L*-6T		4				
VSP-HE30L*-4T	30	2.5	35	15	15.9	19
VSP-HE30L*-6T		4				
VSP-HE40L*-4T	40	2.5	35	15	15.9	23
VSP-HE40L*-6T		4				

- Suction pad
- General/Deep/Compact
- Sponge
- Bel lows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, push-in fitting)

●VSP-HEW4 to 15L^{*}-2/4/6

●VSP-HEW20 to 40L^{*}-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW4L [*] -2	4	1.8	30.2	12.2	8.4	14.7	14
VSP-HEW4L [*] -4		4			11.2	18.8	15
VSP-HEW4L [*] -6		6			11.9	20.6	16
VSP-HEW6L [*] -2	6	1.8	30.2	12.2	8.4	14.7	15
VSP-HEW6L [*] -4		4			11.2	18.8	16
VSP-HEW6L [*] -6		6			11.9	20.6	17
VSP-HEW8L [*] -2	8	1.8	30.2	12.2	8.4	14.7	15
VSP-HEW8L [*] -4		4			11.2	18.8	16
VSP-HEW8L [*] -6		6			11.9	20.6	17
VSP-HEW10L [*] -2	10	1.8	32	12.2	8.4	14.7	15
VSP-HEW10L [*] -4		4			11.2	18.8	16
VSP-HEW10L [*] -6		6			11.9	20.6	17
VSP-HEW15L [*] -2	15	1.8	32	14	8.4	14.7	15
VSP-HEW15L [*] -4		4			11.2	18.8	16
VSP-HEW15L [*] -6		6			11.9	20.6	17
VSP-HEW20L [*] -2	20	1.8	35	14	8.4	14.7	17
VSP-HEW20L [*] -4		4			11.2	18.8	18
VSP-HEW20L [*] -6		6			11.9	20.6	19
VSP-HEW30L [*] -2	30	1.8	35	15	8.4	14.7	19
VSP-HEW30L [*] -4		4			11.2	18.8	20
VSP-HEW30L [*] -6		6			11.9	20.6	21
VSP-HEW40L [*] -2	40	1.8	35	15	8.4	14.7	23
VSP-HEW40L [*] -4		4			11.2	18.8	24
VSP-HEW40L [*] -6		6			11.9	20.6	25

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

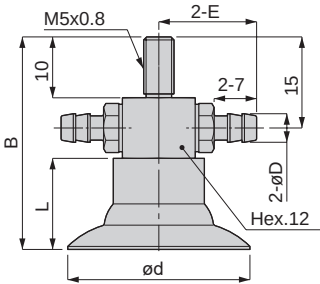
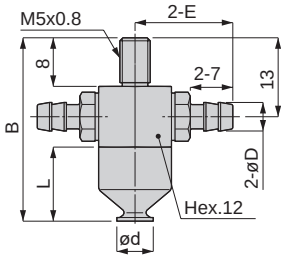
Suction mark
prevention

VSP-***L*** Series

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW4 to 15L*-4T/6T

●VSP-HEW20 to 40L*-4T/6T



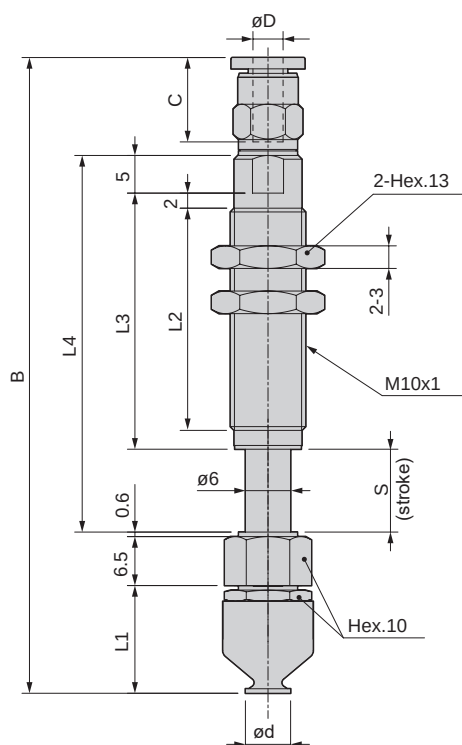
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW4L*-4T	4	2.5	30.2	12.2	15.9	13
VSP-HEW4L*-6T		4				
VSP-HEW6L*-4T	6	2.5	30.2	12.2	15.9	15
VSP-HEW6L*-6T		4				
VSP-HEW8L*-4T	8	2.5	30.2	12.2	15.9	15
VSP-HEW8L*-6T		4				
VSP-HEW10L*-4T	10	2.5	32	14	15.9	15
VSP-HEW10L*-6T		4				
VSP-HEW15L*-4T	15	2.5	32	14	15.9	15
VSP-HEW15L*-6T		4				
VSP-HEW20L*-4T	20	2.5	35	15	15.9	18
VSP-HEW20L*-6T		4				
VSP-HEW30L*-4T	30	2.5	35	15	15.9	19
VSP-HEW30L*-6T		4				
VSP-HEW40L*-4T	40	2.5	35	15	15.9	23
VSP-HEW40L*-6T		4				

- Suction pad
- General/Deep/Compact
- Sponge
- Bel lows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC4 to 15-□L^{*}-4



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC4-2L [*] -4	4	4	68.4	12.2	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC4-5L [*] -4			74.4		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC4-10L [*] -4			84.4		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC4-15L [*] -4			94.4		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC4-20L [*] -4			104.4		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC6-2L [*] -4	6	4	68.4	12.2	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC6-5L [*] -4			74.4		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC6-10L [*] -4			84.4		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC6-15L [*] -4			94.4		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC6-20L [*] -4			104.4		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC8-2L [*] -4	8	4	68.4	12.2	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC8-5L [*] -4			74.4		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC8-10L [*] -4			84.4		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC8-15L [*] -4			94.4		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC8-20L [*] -4			104.4		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC10-2L [*] -4	10	4	70.2	14	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC10-5L [*] -4			76.2		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC10-10L [*] -4			86.2		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC10-15L [*] -4			96.2		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC10-20L [*] -4			106.2		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC15-2L [*] -4	15	4	70.2	14	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC15-5L [*] -4			76.2		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC15-10L [*] -4			86.2		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC15-15L [*] -4			96.2		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC15-20L [*] -4			106.2		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

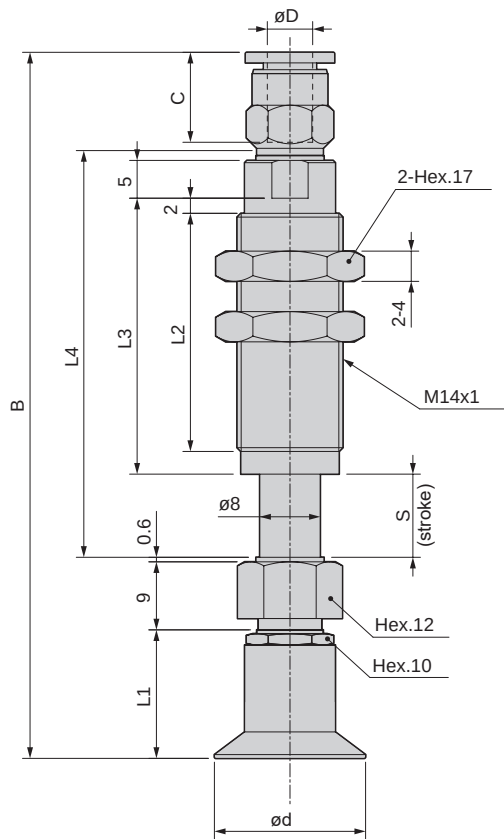
Flat

Suction mark
prevention

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC20 to 40-□L*-4/6

- Suction pad
- General/Deep/
Compact
- Sponge
- Bellows
- Multi-stage
bellows

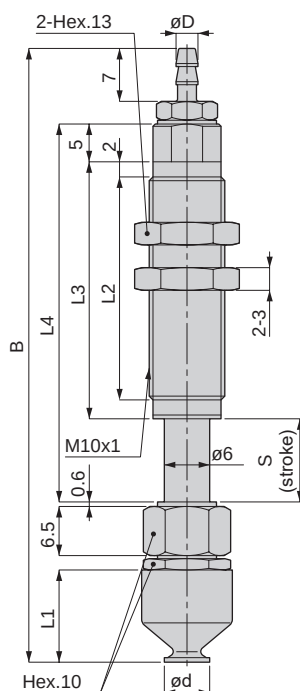


Oval												Unit: mm		
	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)		
Soft	VSP-LFC20-5L*-4	20	4	82.1	15	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57		
	VSP-LFC20-5L*-6		6	83.4					11.9			58		
VSP-LFC20-10L*-4	4		92.1	31.5		36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	59			
VSP-LFC20-10L*-6	6		93.4					11.9			60			
Soft bellows	VSP-LFC20-15L*-4		4	102.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62		
	VSP-LFC20-15L*-6		6	103.4					11.9			63		
Anti-slip	VSP-LFC20-20L*-4		6	4		112.1	41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	65	
	VSP-LFC20-20L*-6			6		113.4				11.9			66	
Thin object	VSP-LFC30-5L*-4	30	4	82.1	15	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	59		
	VSP-LFC30-5L*-6		6	83.4					11.9			60		
	VSP-LFC30-10L*-4		4	92.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	61		
	VSP-LFC30-10L*-6		6	93.4					11.9			62		
	VSP-LFC30-15L*-4		4	102.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	64		
	VSP-LFC30-15L*-6		6	103.4					11.9			65		
	Flat		VSP-LFC30-20L*-4	6		4	112.1	41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	67
			VSP-LFC30-20L*-6			6	113.4				11.9			68
Suction mark prevention	VSP-LFC40-5L*-4	40	4	82.1	15	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	64		
	VSP-LFC40-5L*-6		6	83.4					11.9			65		
	VSP-LFC40-10L*-4		4	92.1		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	66		
	VSP-LFC40-10L*-6		6	93.4					11.9			67		
	VSP-LFC40-15L*-4		4	102.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	69		
	VSP-LFC40-15L*-6		6	103.4					11.9			70		
	VSP-LFC40-20L*-4		4	112.1		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	72		
	VSP-LFC40-20L*-6		6	113.4					11.9			73		

*1: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, barbed fitting)

●VSP-LFC4 to 8-□L^{*}-4T/6T



Unit: mm

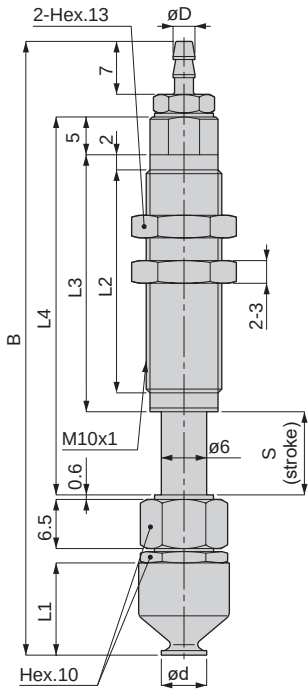
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC4-2L*-4T	4	2.5	65.5	12.2	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC4-2L*-6T		4								
VSP-LFC4-5L*-4T		2.5	71.5		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC4-5L*-6T		4								
VSP-LFC4-10L*-4T		2.5	81.5		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC4-10L*-6T		4								
VSP-LFC4-15L*-4T		2.5	91.5		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC4-15L*-6T		4								
VSP-LFC4-20L*-4T		2.5	101.5		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC4-20L*-6T		4								
VSP-LFC6-2L*-4T	6	2.5	65.5	12.2	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC6-2L*-6T		4								
VSP-LFC6-5L*-4T		2.5	71.5		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC6-5L*-6T		4								
VSP-LFC6-10L*-4T		2.5	81.5		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC6-10L*-6T		4								
VSP-LFC6-15L*-4T		2.5	91.5		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC6-15L*-6T		4								
VSP-LFC6-20L*-4T		2.5	101.5		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC6-20L*-6T		4								
VSP-LFC8-2L*-4T	8	2.5	65.5	12.2	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC8-2L*-6T		4								
VSP-LFC8-5L*-4T		2.5	71.5		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC8-5L*-6T		4								
VSP-LFC8-10L*-4T		2.5	81.5		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC8-10L*-6T		4								
VSP-LFC8-15L*-4T		2.5	91.5		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC8-15L*-6T		4								
VSP-LFC8-20L*-4T		2.5	101.5		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC8-20L*-6T		4								

*1: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, barbed fitting)

●VSP-LFC10, 15-□L*-4T/6T

- Suction pad
- General/Deep/
Compact
- Sponge
- Bellows
- Multi-stage
bellows
- Oval
- Soft
- Soft
bellows
- Anti-slip
- Thin object
- Flat
- Suction mark
prevention

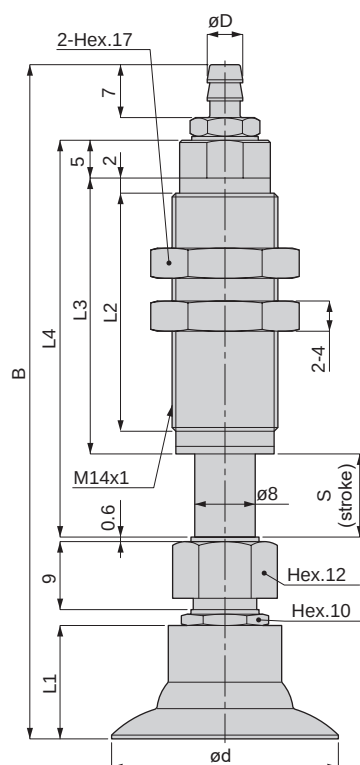


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2L*-4T	10	2.5	67.3	14	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC10-2L*-6T		4								
VSP-LFC10-5L*-4T		2.5	73.3		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC10-5L*-6T		4								
VSP-LFC10-10L*-4T		2.5	83.3		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC10-10L*-6T		4								
VSP-LFC10-15L*-4T		2.5	93.3		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC10-15L*-6T		4								
VSP-LFC10-20L*-4T		2.5	103.3		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC10-20L*-6T		4								
VSP-LFC15-2L*-4T	15	2.5	67.3	14	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC15-2L*-6T		4								
VSP-LFC15-5L*-4T		2.5	73.3		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC15-5L*-6T		4								
VSP-LFC15-10L*-4T		2.5	83.3		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC15-10L*-6T		4								
VSP-LFC15-15L*-4T		2.5	93.3		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC15-15L*-6T		4								
VSP-LFC15-20L*-4T		2.5	103.3		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC15-20L*-6T		4								

*1: Values in [] are for low load.

●VSP-LFC20 to 40-□W*-4T/6T



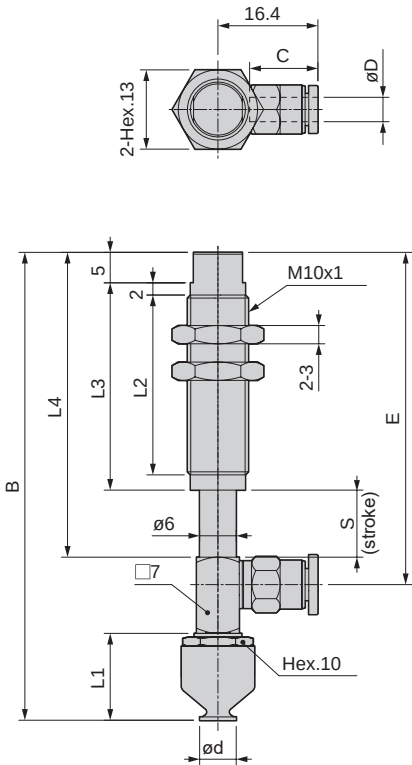
										Unit: mm
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC20-5L*4T	20	2.5	79.2	15	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	52
VSP-LFC20-5L*6T		4								
VSP-LFC20-10L*4T		2.5	89.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	54
VSP-LFC20-10L*6T		4								
VSP-LFC20-15L*4T		2.5	99.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	57
VSP-LFC20-15L*6T		4								
VSP-LFC20-20L*4T		2.5	109.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	60
VSP-LFC20-20L*6T		4								
VSP-LFC30-5L*4T	30	2.5	79.2	15	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	54
VSP-LFC30-5L*6T		4								
VSP-LFC30-10L*4T		2.5	89.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	56
VSP-LFC30-10L*6T		4								
VSP-LFC30-15L*4T		2.5	99.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	59
VSP-LFC30-15L*6T		4								
VSP-LFC30-20L*4T		2.5	109.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	62
VSP-LFC30-20L*6T		4								
VSP-LFC40-5L*4T	40	2.5	79.2	15	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	59
VSP-LFC40-5L*6T		4								
VSP-LFC40-10L*4T		2.5	89.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	61
VSP-LFC40-10L*6T		4								
VSP-LFC40-15L*4T		2.5	99.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	64
VSP-LFC40-15L*6T		4								
VSP-LFC40-20L*4T		2.5	109.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	67
VSP-LFC40-20L*6T		4								

*1: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, push-in fitting)

●VSP-LFD4 to 15-□L*-4

- Suction pad
- General/Deep/
Compact
- Sponge
- Bellows
- Multi-stage
bellows
- Oval
- Soft
- Soft
bellows
- Anti-slip
- Thin object
- Flat
- Suction mark
prevention

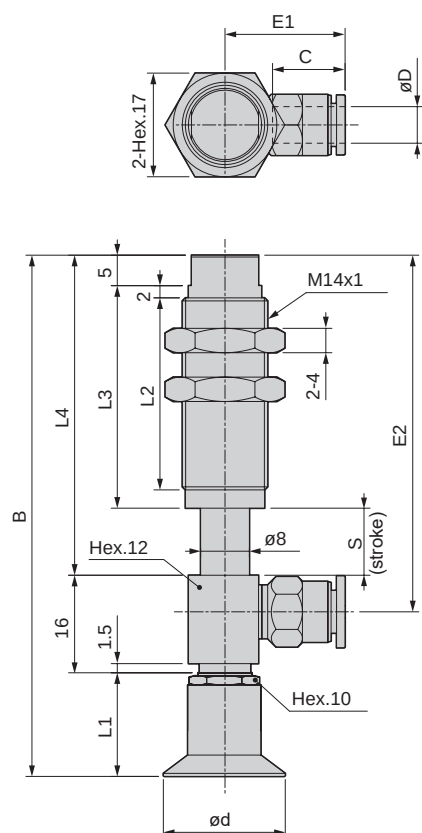


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD4-5L*-4	4	4	66.8	12.2	24.5	29	40	11.2	44.5	5	1.3 to 2.4	28
VSP-LFD4-10L*-4			76.8		29.5	34	50		54.5	10	1.3 to 3.3	30
VSP-LFD4-15L*-4			86.8		34.5	39	60		64.5	15	1.3 to 4.2	32
VSP-LFD4-20L*-4			96.8		39.5	44	70		74.5	20	1.3 to 5.1	34
VSP-LFD6-5L*-4	6	4	66.8	12.2	24.5	29	40	11.2	44.5	5	1.3 to 2.4	28
VSP-LFD6-10L*-4			76.8		29.5	34	50		54.5	10	1.3 to 3.3	30
VSP-LFD6-15L*-4			86.8		34.5	39	60		64.5	15	1.3 to 4.2	32
VSP-LFD6-20L*-4			96.8		39.5	44	70		74.5	20	1.3 to 5.1	34
VSP-LFD8-5L*-4	8	4	66.8	12.2	24.5	29	40	11.2	44.5	5	1.3 to 2.4	28
VSP-LFD8-10L*-4			76.8		29.5	34	50		54.5	10	1.3 to 3.3	30
VSP-LFD8-15L*-4			86.8		34.5	39	60		64.5	15	1.3 to 4.2	32
VSP-LFD8-20L*-4			96.8		39.5	44	70		74.5	20	1.3 to 5.1	34
VSP-LFD10-5L*-4	10	4	68.6	14	24.5	29	40	11.2	44.5	5	1.3 to 2.4	28
VSP-LFD10-10L*-4			78.6		29.5	34	50		54.5	10	1.3 to 3.3	30
VSP-LFD10-15L*-4			88.6		34.5	39	60		64.5	15	1.3 to 4.2	32
VSP-LFD10-20L*-4			98.6		39.5	44	70		74.5	20	1.3 to 5.1	34
VSP-LFD15-5L*-4	15	4	68.6	14	24.5	29	40	11.2	44.5	5	1.3 to 2.4	28
VSP-LFD15-10L*-4			78.6		29.5	34	50		54.5	10	1.3 to 3.3	30
VSP-LFD15-15L*-4			88.6		34.5	39	60		64.5	15	1.3 to 4.2	32
VSP-LFD15-20L*-4			98.6		39.5	44	70		74.5	20	1.3 to 5.1	34

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, push-in fitting)

●VSP-LFD20 to 40-□L^{*}-4/6

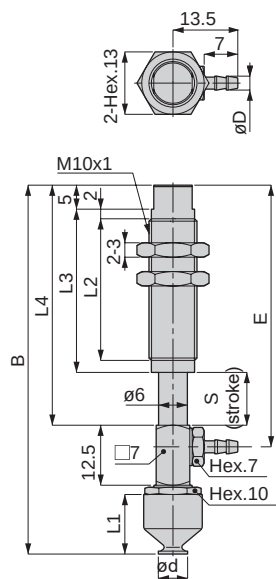


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD20-5L*-4	20	4	75.5	15	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	58
VSP-LFD20-5L*-6		6						11.9	19.7				59
VSP-LFD20-10L*-4		4	85.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	62
VSP-LFD20-10L*-6		6						11.9	19.7				63
VSP-LFD20-15L*-4		4	95.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	66
VSP-LFD20-15L*-6		6						11.9	19.7				67
VSP-LFD20-20L*-4		4	105.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	70
VSP-LFD20-20L*-6		6						11.9	19.7				71
VSP-LFD30-5L*-4	30	4	75.5	15	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	60
VSP-LFD30-5L*-6		6						11.9	19.7				61
VSP-LFD30-10L*-4		4	85.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	64
VSP-LFD30-10L*-6		6						11.9	19.7				65
VSP-LFD30-15L*-4		4	95.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	68
VSP-LFD30-15L*-6		6						11.9	19.7				69
VSP-LFD30-20L*-4		4	105.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	72
VSP-LFD30-20L*-6		6						11.9	19.7				73
VSP-LFD40-5L*-4	40	4	75.5	15	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	65
VSP-LFD40-5L*-6		6						11.9	19.7				66
VSP-LFD40-10L*-4		4	85.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	69
VSP-LFD40-10L*-6		6						11.9	19.7				70
VSP-LFD40-15L*-4		4	95.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	73
VSP-LFD40-15L*-6		6						11.9	19.7				74
VSP-LFD40-20L*-4		4	105.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	77
VSP-LFD40-20L*-6		6						11.9	19.7				78

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD4 to 15-□L*-4T/6T

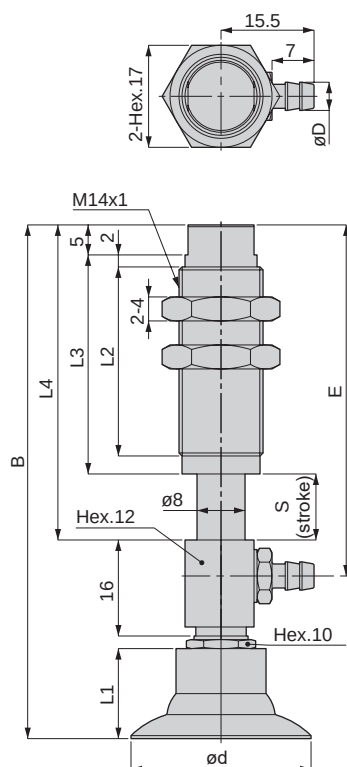


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD4-5L*-4T	4	2.5	66.8	12.2	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD4-5L*-6T		4									
VSP-LFD4-10L*-4T		2.5	76.8		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD4-10L*-6T		4									
VSP-LFD4-15L*-4T		2.5	86.8		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD4-15L*-6T		4									
VSP-LFD4-20L*-4T		2.5	96.8		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD4-20L*-6T		4									
VSP-LFD6-5L*-4T	6	2.5	66.8	12.2	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD6-5L*-6T		4									
VSP-LFD6-10L*-4T		2.5	76.8		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD6-10L*-6T		4									
VSP-LFD6-15L*-4T		2.5	86.8		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD6-15L*-6T		4									
VSP-LFD6-20L*-4T		2.5	96.8		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD6-20L*-6T		4									
VSP-LFD8-5L*-4T	8	2.5	66.8	12.2	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD8-5L*-6T		4									
VSP-LFD8-10L*-4T		2.5	76.8		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD8-10L*-6T		4									
VSP-LFD8-15L*-4T		2.5	86.8		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD8-15L*-6T		4									
VSP-LFD8-20L*-4T		2.5	96.8		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD8-20L*-6T		4									
VSP-LFD10-5L*-4T	10	2.5	68.6	14	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD10-5L*-6T		4									
VSP-LFD10-10L*-4T		2.5	78.6		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD10-10L*-6T		4									
VSP-LFD10-15L*-4T		2.5	88.6		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD10-15L*-6T		4									
VSP-LFD10-20L*-4T		2.5	98.6		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD10-20L*-6T		4									
VSP-LFD15-5L*-4T	15	2.5	68.6	14	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD15-5L*-6T		4									
VSP-LFD15-10L*-4T		2.5	78.6		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD15-10L*-6T		4									
VSP-LFD15-15L*-4T		2.5	88.6		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD15-15L*-6T		4									
VSP-LFD15-20L*-4T		2.5	98.6		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD15-20L*-6T		4									

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD20 to 40-□L*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD20-5L*-4T	20	2.5	75.5	15	26.5	31.5	42.5	48.5	5	4.5 to 6.5	54
VSP-LFD20-5L*-6T		4									
VSP-LFD20-10L*-4T		2.5	85.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	57
VSP-LFD20-10L*-6T		4									
VSP-LFD20-15L*-4T		2.5	95.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	61
VSP-LFD20-15L*-6T		4									
VSP-LFD20-20L*-4T		2.5	105.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	65
VSP-LFD20-20L*-6T		4									
VSP-LFD30-5L*-4T	30	2.5	75.5	15	26.5	31.5	42.5	48.5	5	4.5 to 6.5	56
VSP-LFD30-5L*-6T		4									
VSP-LFD30-10L*-4T		2.5	85.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	59
VSP-LFD30-10L*-6T		4									
VSP-LFD30-15L*-4T		2.5	95.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	63
VSP-LFD30-15L*-6T		4									
VSP-LFD30-20L*-4T		2.5	105.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	67
VSP-LFD30-20L*-6T		4									
VSP-LFD40-5L*-4T	40	2.5	75.5	15	26.5	31.5	42.5	48.5	5	4.5 to 6.5	61
VSP-LFD40-5L*-6T		4									
VSP-LFD40-10L*-4T		2.5	85.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	64
VSP-LFD40-10L*-6T		4									
VSP-LFD40-15L*-4T		2.5	95.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	68
VSP-LFD40-15L*-6T		4									
VSP-LFD40-20L*-4T		2.5	105.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	72
VSP-LFD40-20L*-6T		4									

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

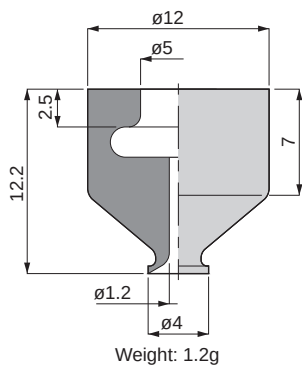
Suction mark
prevention

VSPG-*W* Series

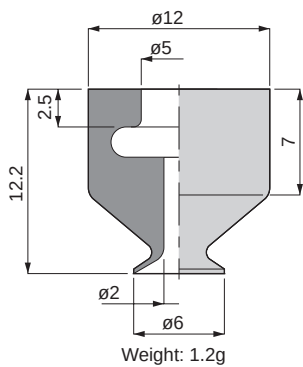
Dimensions: pad only

- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

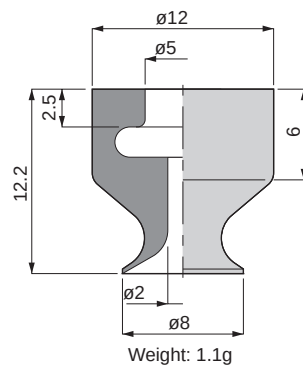
●VSPG-4L*



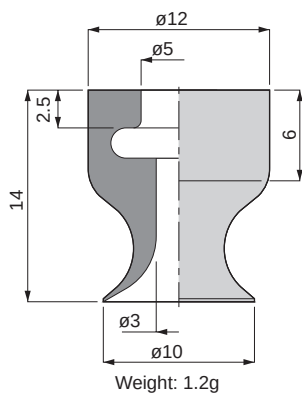
●VSPG-6L*



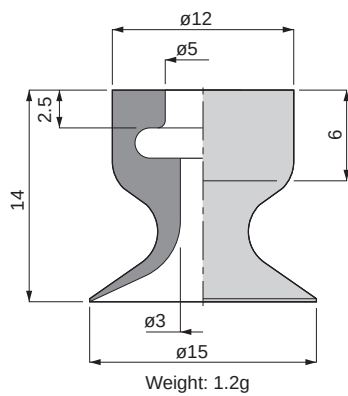
●VSPG-8L*



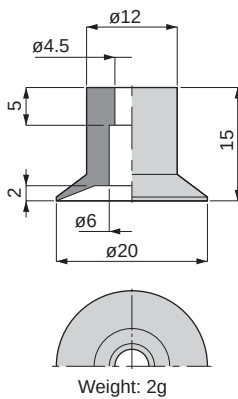
●VSPG-10L*



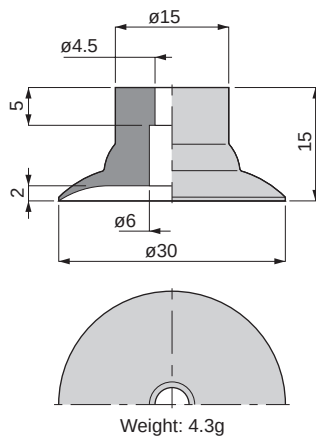
●VSPG-15L*



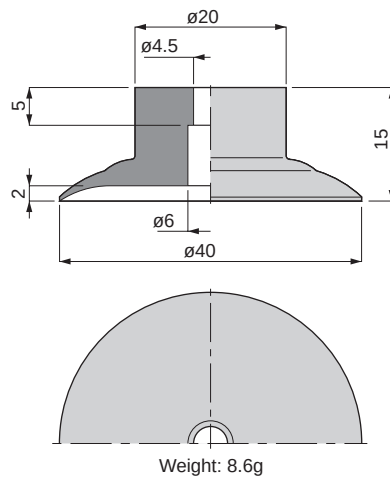
●VSPG-20L*



●VSPG-30L*



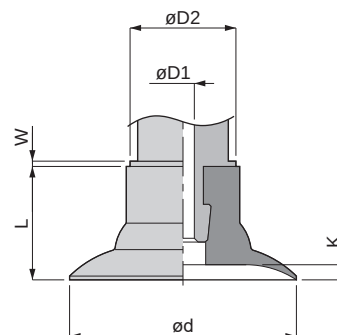
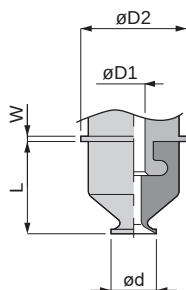
●VSPG-40L*



Detailed view of pad and holder connection

●VSPG-4 to 15L*A

●VSPG-20 to 40L*A



Unit: mm

Model No.	Pad diameter ϕd	L	Lip internal height K	$\phi D1$	$\phi D2$	W
VSPG-4L*	4	12.2	-	3	14	0.7
VSPG-6L*	6	12.2	-	3	14	0.7
VSPG-8L*	8	12.2	-	3	14	0.7
VSPG-10L*	10	14	-	3	14	0.7
VSPG-15L*	15	14	-	3	14	0.7
VSPG-20L*	20	15	2	3	14	0.7
VSPG-30L*	30	15	2	3	14	0.7
VSPG-40L*	40	15	2	3	14	0.7

*1: $\phi D2$ and W dimensions in the table are only for VSP-HC type.

Safety precautions



CAUTION

- The VPHC type holder has no conductivity. When using a suction pad of conductive material, take measures to let electricity pass directly from the pad rubber.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention



Suction pad, soft bellows

VSP-*LB* Series

Suction pad with excellent pad rubber flexibility and a bellows structure that molds softly to the workpiece



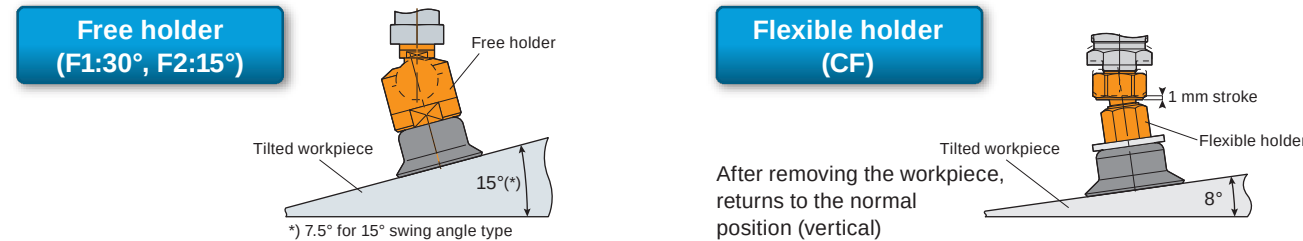
The bellows (bellows) section contracts and contracts to reduce the load on the workpiece when using a molded article that is easily scratched or tilted

A wide range of holder variations

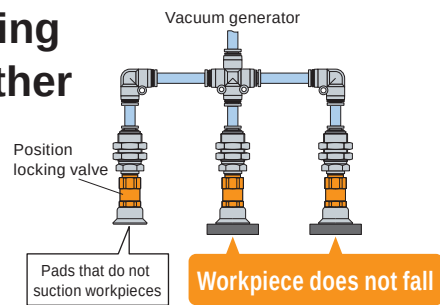
Shape	16types	Pipingconnection	5types	Stroke	12types
●Standard5 types ●CompactClass 4 ●Low dust generation 2 types	●Lightweight3 types ●Low back: 2 types	●Push-in fitting (ø1.8 to ø6)Three types ●Barbed fitting (ø4, ø6) Two types		2 mm to 50 mm (Depends on pad diameter and holder)	

Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding.

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle.



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



Pad surface treatment (option) is available for special treatment to reduce suction marks

	-NF	-SF	-DL	-ER	-FG
Surface-Treated	Fiber raising		Anti-sticking	Reduced suction marks	Fluorine coating
	Nylon	Silk			
Compatible materials	Silicone	Silicone	Silicone Conductive silicone	Nitriles Nitrile conductive NBR	Silicone Conductive silicone
Features	The fibers (nylon or silk) on the pad surface prevent rubber material transfer by avoiding direct contact with the workpiece.		Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

VSP-*LB* Series

Pad shape

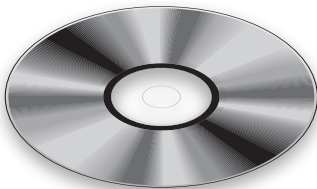
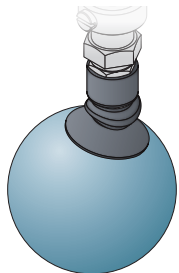


Softness that does not damage workpiece + 1-stage bellows structure

Rubber hardness is available from A40. The lip is soft and track well even on workpieces with irregular shapes. It also has a bellows structure, making it possible to track to changes in the height of the workpiece in contact with it and surface tilting.

Recommended workpiece

Easily damaged workpieces such as molded products



Pad diameter

5 types	6	8	10	15	20
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Pad material

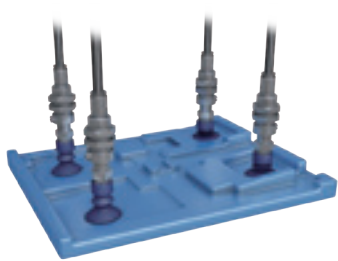
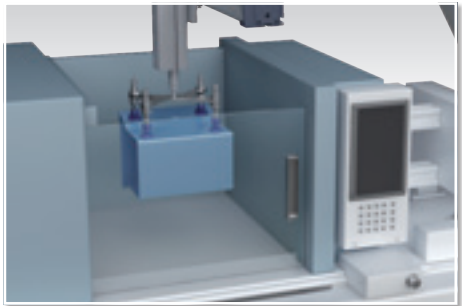
7 types	Nitriles	Silicone	Urethane	Conductive silicone
	Conductive NBR (low resistance)	HNBR	EPDM	

* Silicone (S) is compatible with the Food Sanitation Act. (holder is not supported/suction pad is compatible only with workpiece contact part)

Solution examples

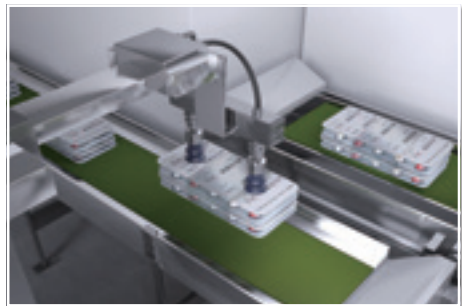
Delicate resin molded products, etc.

Gently transport workpieces that are easily damaged. In addition, the bellows structure track to vertical difference and workpiece inclination.



Transport of pharmaceuticals, etc.

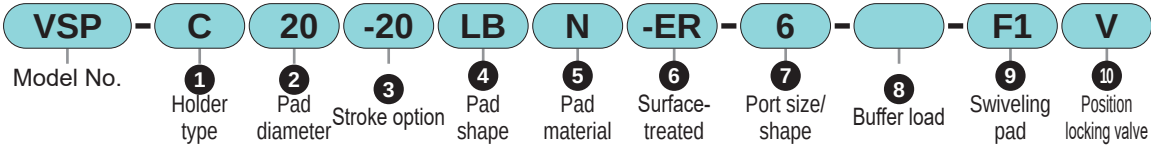
The bellows structure extends and contracts to workpieces that are prone to scratches, reducing the load on the workpiece.



How to order

● Soft bellows

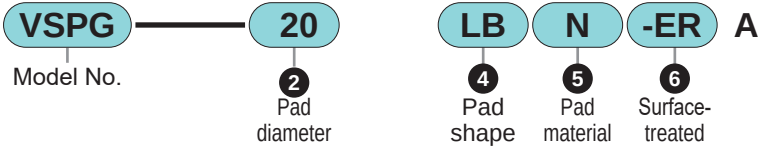
Suction pad



Pad rubber only



Pad rubber + set with fixing screw



1 Holder type

With/Without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact	Upward direction	MA	
	Standard	Lateral direction	B	
	Compact	Lateral direction	MB	
	Low height	Lateral direction	HE	
Buffer type	Standard	Both lateral directions	HEW	
	Compact	Both lateral directions	MC	
	Low dust generation	Both lateral directions	LFC	
	Lightweight	Both lateral directions	HC	
	Standard	Lateral direction	D	
	Compact	Lateral direction	MD	
	Low dust generation	Lateral direction	LFD	
	Lightweight	Lateral direction	HD	
	Lightweight	Both lateral directions	HDW	
	Standard	Direct mounting	F	

4 Pad shape

Code	Description
LB	Soft bellows

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
U	Urethane rubber
SE	Conductive silicone rubber
NE	Conductive NBR (low resistance)
HN	HNBR
EP	EPDM

6 Surface-treated

Description	Compatible pad material	Supported pad diameter	Code
No surface treatment	All pads material, all pad diameters		Blank
Fiber nap (nylon)		ø10 to ø20	-NF
Fiber raising (silk)		ø10 to ø20	-SF
Anti-stick special coating		All sizes	-DL
Suction mark reduction surface modification		All sizes	-ER
Fluorine coating		All sizes	-FG

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

● Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

● Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

7 Port size/shape

Description	Holder type														Code	
	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW	
(1: for F)																Blank
ø1.8 push-in fitting																2
ø4 push-in fitting																4
ø6 push-in fitting																6
ø4 Push-in fitting, without spring cover																4C
ø6 Push-in fitting, without spring cover																6C
ø4 barbed fitting																4T
ø6 barbed fitting																6T
ø4 barbed fitting, without spring cover																4TC
ø6 Barbed fitting, without spring cover																6TC

*1: 1 If -20 to -50 is selected for C and D, 4C, 6C, 4TC, 6TC can be selected.

*2: 2 The available port size and shape differ depending on the pad diameter. Check with the combination table below.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1: Blank for models other than LFC.

*2: When -2 is selected, blank.

9 Swiveling pad

Code	Description	
Blank	None	*1, *2
F1	With free holder swing angle 30°	
F2	With free holder swing angle 15°	
CF	With flexible holder angle of 8°	

*1: For HD, HE, HDW and HEW, is blank.

*2: Blank for HC.

10 Position locking valve

Code	Description	
Blank	None	*1, *2
V	With position locking valve	

*1: For HD, HE, HDW and HEW, is blank.

*2: For -NF and -SF, is blank.

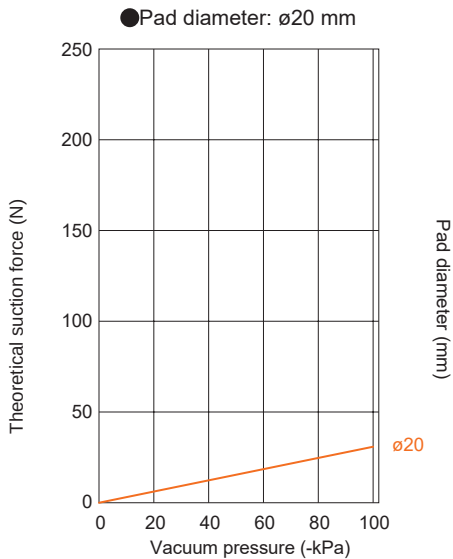
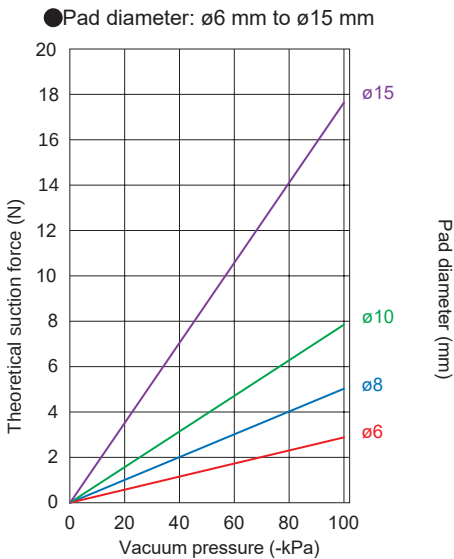
Holder shape - pad diameter - pad shape - port size/shape combinations

Holder type	Pad diameter	Push-in fitting				Barbed fitting			
		ø4		ø6		ø4		ø6	
		4	4C	6	6C	4T	4TC	6T	6TC
A	ø6 to ø15								
	ø20								
B	All sizes								
C	All sizes								
D	All sizes								

Holder type	Pad diameter	Thread
		M14
F	All sizes	Blank

Holder type	Pad diameter	Push-in fitting			Barbed fitting	
		ø1.8	ø4	ø6	ø4	ø6
		2	4	6	4T	6T
MA	ø6 to ø15					
	ø20					
MB	All sizes					
MC	All sizes					
MD	All sizes					
LFC	ø6 to ø15					
	ø20					
LFD	ø6 to ø15					
	ø20					
HC	All sizes					
HD	All sizes					
HDW	All sizes					
HE	All sizes					
HEW	All sizes					

Theoretical suction force



For soft bellows type suction force, it may not be possible to secure the calculated suction force (theoretical suction force x safety factor) due to the effect of pad characteristics such as degree of vacuum/pad material/suctioned object. Before selection, use the suction force obtained by “Selection method of suction pad” (page 288) as a guide, and make sure that there are no problems with the suction capacity on the actual machine. In addition, the soft bellows type is not suitable for vertical lifting. Before use, check operation sufficiently with the actual device.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

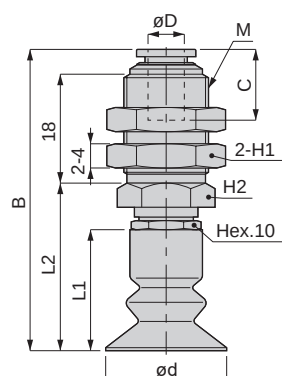
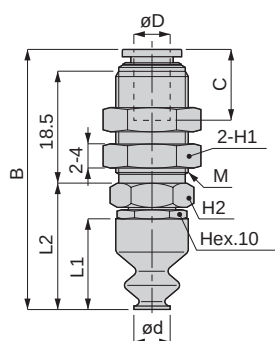
Flat

Suction mark
prevention

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

●VSP-A6 to 15LB*-6

●VSP-A20LB*-4/6



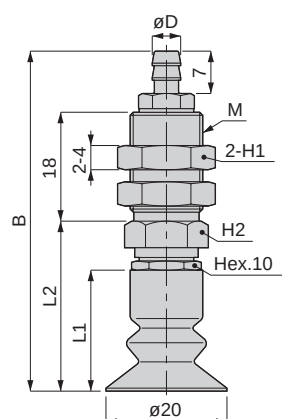
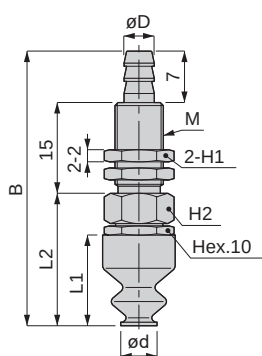
Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
VSP-A6LB*-6	6	6	M12x1	43.4	15	21.1	11.9	14	12	24
VSP-A8LB*-6	8	6	M12x1	43.4	15	21.1	11.9	14	12	24
VSP-A10LB*-6	10	6	M12x1	43.9	15.5	21.6	11.9	14	12	25
VSP-A15LB*-6	15	6	M12x1	45.9	17.5	23.6	11.9	14	12	25
VSP-A20LB*-4	20	4	M12x1	58.9	20	28	11.2	14	12	35
VSP-A20LB*-6		6	M14x1	49.9		27.6	11.9	17	14	41

Dimensions (fixed, vacuum outlet top VSP-A, barbed fitting)

●VSP-A6 to 15LB*-6T

●VSP-A20LB*-4T/6T



Unit: mm

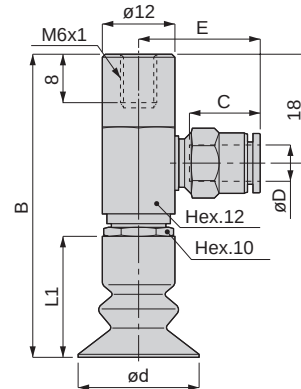
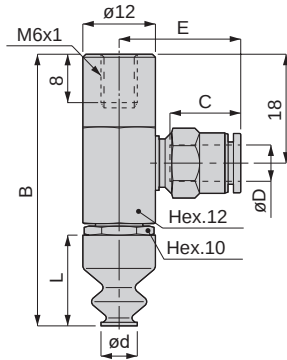
Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Hexagon H1	Hexagon H2	Weight (g)
VSP-A6LB*-6T	6	4	M8x0.75	44.1	15	22.1	10	10	14
VSP-A8LB*-6T	8	4	M8x0.75	44.1	15	22.1	10	10	14
VSP-A10LB*-6T	10	4	M8x0.75	44.6	15.5	22.6	10	10	15
VSP-A15LB*-6T	15	4	M8x0.75	46.6	17.5	24.6	10	10	16
VSP-A20LB*-4T	20	2.5	M12x1	56	20	28	14	12	34
VSP-A20LB*-6T		4							

VSP-*LB* Series

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

●VSP-B6 to 15LB*-4/6

●VSP-B20LB*-4/6



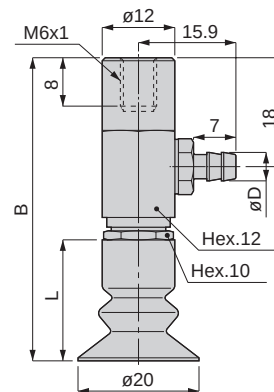
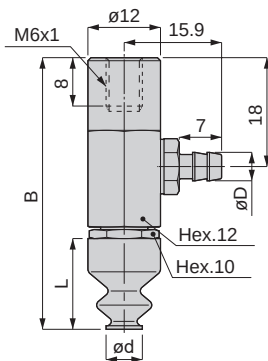
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B6LB*-4	6	4	45.1	15	11.2	18.8	32
VSP-B6LB*-6		6			11.9	20.1	33
VSP-B8LB*-4	8	4	45.1	15	11.2	18.8	32
VSP-B8LB*-6		6			11.9	20.1	33
VSP-B10LB*-4	10	4	45.6	15.5	11.2	18.8	33
VSP-B10LB*-6		6			11.9	20.1	34
VSP-B15LB*-4	15	4	47.6	17.5	11.2	18.8	33
VSP-B15LB*-6		6			11.9	20.1	34
VSP-B20LB*-4	20	4	50	20	11.2	18.8	37
VSP-B20LB*-6		6			11.9	20.1	38

Dimensions (fixed, vacuum outlet side VSP-B, barbed fitting)

●VSP-B6 to 15LB*-4T/6T

●VSP-B20LB*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-B6LB*-4T	6	2.5	42.3	12.2	32
VSP-B6LB*-6T		4			
VSP-B8LB*-4T	8	2.5	42.3	12.2	32
VSP-B8LB*-6T		4			
VSP-B10LB*-4T	10	2.5	44.1	14	32
VSP-B10LB*-6T		4			
VSP-B15LB*-4T	15	2.5	44.1	14	33
VSP-B15LB*-6T		4			
VSP-B20LB*-4T	20	2.5	45	15	38
VSP-B20LB*-6T		4			

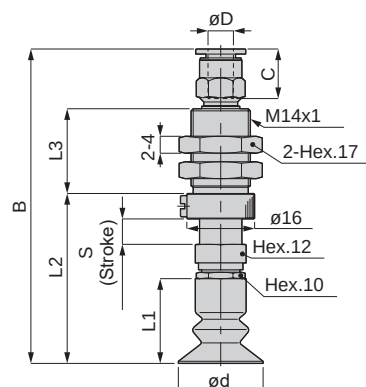
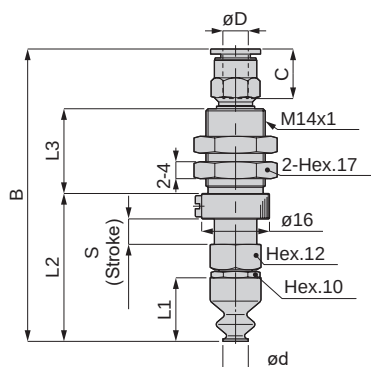
Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

●VSP-C6 to 15LB*-4/6

●VSP-C6 to 15-□LB*-4/6

●VSP-C20LB*-4/6

●VSP-C20-□LB*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)				
VSP-C6LB*-4	6	4	68.1	15	35.1	20	11.2	6	4.0 to 7.1	38				
VSP-C6LB*-6		6	69.4				11.9			39				
VSP-C6-10LB*-4		4	72.6				11.2			40				
VSP-C6-10LB*-6		6	73.9				11.9			41				
VSP-C6-15LB*-4		4	82.6		44.6	25	11.2	15	2.0 to 5.9	46				
VSP-C6-15LB*-6		6	83.9				11.9			47				
VSP-C6-20LB*-4		4	98.5				11.2			53				
VSP-C6-20LB*-6		6	99.9				11.9			54				
VSP-C8LB*-4		8	4		68.1	15	35.1	20	11.2	6	4.0 to 7.1	38		
VSP-C8LB*-6	6		69.4	11.9	39									
VSP-C8-10LB*-4	4		72.6	11.2	40									
VSP-C8-10LB*-6	6		73.9	11.9	41									
VSP-C8-15LB*-4	4		82.6	44.6	25		11.2	15	2.0 to 5.9	46				
VSP-C8-15LB*-6	6		83.9				11.9			47				
VSP-C8-20LB*-4	4		98.5				11.2			53				
VSP-C8-20LB*-6	6		99.9				11.9			54				
VSP-C10LB*-4	10		4	68.6	15.5		35.6	20	11.2	6	4.0 to 7.1	38		
VSP-C10LB*-6		6	69.9	11.9		39								
VSP-C10-10LB*-4		4	73.1	11.2		40								
VSP-C10-10LB*-6		6	74.4	11.9		41								
VSP-C10-15LB*-4		4	83.1	45.1		25	11.2	15	2.0 to 5.9	45				
VSP-C10-15LB*-6		6	84.4				11.9			46				
VSP-C10-20LB*-4		4	99.1				11.2			52				
VSP-C10-20LB*-6		6	100.4				11.9			53				
VSP-C15LB*-4		15	4	70.6		17.5	37.6	20	11.2	6	4.0 to 7.1	39		
VSP-C15LB*-6	6		71.9	11.9	40									
VSP-C15-10LB*-4	4		75.1	11.2	41									
VSP-C15-10LB*-6	6		76.4	11.9	42									
VSP-C15-15LB*-4	4		85.1	47.1	25		11.2	15	2.0 to 5.9	46				
VSP-C15-15LB*-6	6		86.4				11.9			47				
VSP-C15-20LB*-4	4		101.1				11.2			53				
VSP-C15-20LB*-6	6		102.4				11.9			54				
VSP-C20LB*-4	20		4	73	20		40	20	11.2	6	7.0 to 12.6	43		
VSP-C20LB*-6		6	74.3	11.9		44								
VSP-C20-10LB*-4		4	79	46		11.2			47					
VSP-C20-10LB*-6		6	80.3			11.9			48					
VSP-C20-15LB*-4		4	89	51		25	11.2	15	3.3 to 10.4	52				
VSP-C20-15LB*-6		6	90.3				11.9			53				
VSP-C20-20LB*-4		4	105				58			34	11.2	20	2.0 to 8.7	58
VSP-C20-20LB*-6		6	106.3								11.9			59

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft
bel lows

Anti-slip

Thin object

Flat

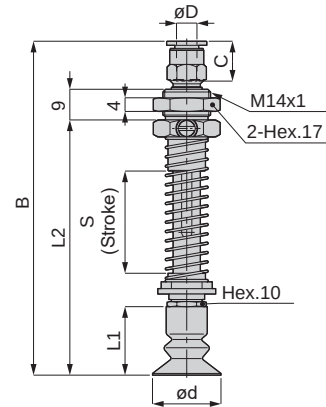
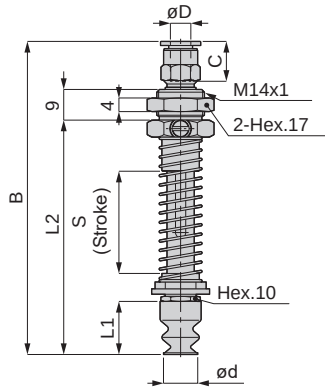
Suction mark
prevention

VSP-*LB* Series

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C6B*15-□LB*-4C/6C

●VSP-C20-□LB*-4C/6C



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C6-20LB*-4C	6	4	75.6	15	53.6	11.2	20	1.5 to 4.9	45
	VSP-C6-20LB*-6C		6	76.9			11.9			46
Sponge	VSP-C6-30LB*-4C		4	88.6		66.6	11.2	30	1.1 to 4.8	51
	VSP-C6-30LB*-6C		6	89.9			11.9			52
Bellows	VSP-C6-40LB*-4C		4	101.6		79.6	11.2	40	1.0 to 4.5	56
	VSP-C6-40LB*-6C		6	102.9			11.9			57
	VSP-C6-50LB*-4C		4	114.6		92.6	11.2	50	0.9 to 4.5	61
	VSP-C6-50LB*-6C		6	115.9			11.9			62
Multi-stage bellows	VSP-C8-20LB*-4C	8	4	75.6	15	53.6	11.2	20	1.5 to 4.9	45
	VSP-C8-20LB*-6C		6	76.9			11.9			46
	VSP-C8-30LB*-4C		4	88.6		66.6	11.2	30	1.1 to 4.8	51
	VSP-C8-30LB*-6C		6	89.9			11.9			52
Oval	VSP-C8-40LB*-4C		4	101.6		79.6	11.2	40	1.0 to 4.5	56
	VSP-C8-40LB*-6C		6	102.9			11.9			57
	VSP-C8-50LB*-4C		4	114.6		92.6	11.2	50	0.9 to 4.5	61
	VSP-C8-50LB*-6C		6	115.9			11.9			62
Soft	VSP-C10-20LB*-4C	10	4	76.1	15.5	54.1	11.2	20	1.5 to 4.9	45
	VSP-C10-20LB*-6C		6	77.4			11.9			46
Soft bellows	VSP-C10-30LB*-4C		4	89.1		67.1	11.2	30	1.1 to 4.8	51
	VSP-C10-30LB*-6C		6	90.4			11.9			52
	VSP-C10-40LB*-4C		4	102.1		80.1	11.2	40	1.0 to 4.5	56
	VSP-C10-40LB*-6C		6	103.4			11.9			57
Anti-slip	VSP-C10-50LB*-4C		4	115.1		93.1	11.2	50	0.9 to 4.5	61
	VSP-C10-50LB*-6C		6	116.4			11.9			62
	VSP-C15-20LB*-4C	15	4	78.1	17.5	56.1	11.2	20	1.5 to 4.9	45
	VSP-C15-20LB*-6C		6	79.4			11.9			46
Thin object	VSP-C15-30LB*-4C		4	91.1		69.1	11.2	30	1.1 to 4.8	51
	VSP-C15-30LB*-6C		6	92.4			11.9			52
	VSP-C15-40LB*-4C		4	104.1		82.1	11.2	40	1.0 to 4.5	56
	VSP-C15-40LB*-6C		6	105.4			11.9			57
Flat	VSP-C15-50LB*-4C		4	117.1		95.1	11.2	50	0.9 to 4.5	61
	VSP-C15-50LB*-6C		6	118.4			11.9			62
	VSP-C20-20LB*-4C	20	4	82	20	60	11.2	20	1.5 to 4.9	50
	VSP-C20-20LB*-6C		6	83.3			11.9			51
Suction mark prevention	VSP-C20-30LB*-4C		4	95		73	11.2	30	1.1 to 4.8	55
	VSP-C20-30LB*-6C		6	96.3			11.9			56
	VSP-C20-40LB*-4C		4	108		86	11.2	40	1.0 to 4.5	60
	VSP-C20-40LB*-6C		6	109.3			11.9			61
	VSP-C20-50LB*-4C		4	121		99	11.2	50	0.9 to 4.5	65
	VSP-C20-50LB*-6C		6	122.3			11.9			66

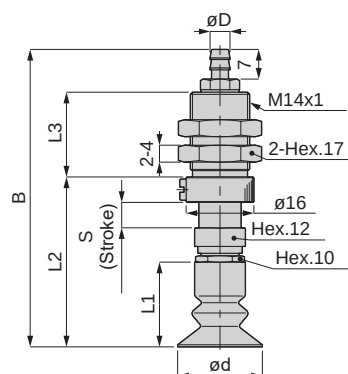
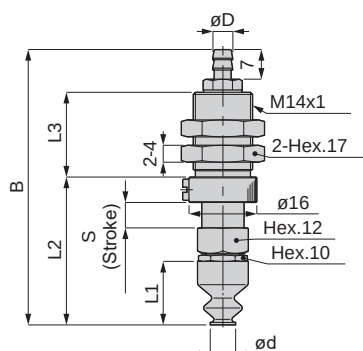
Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

●VSP-C6 to 15LB*-4T/6T

●VSP-C6 to 15-□LB*-4T/6T

●VSP-C20LB*-4T/6T

●VSP-C20-□LB*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C6LB*-4T	6	4	65.2	15	35.1	20	6	4.0 to 7.1	37
VSP-C6LB*-6T		6					10	2.0 to 5.2	40
VSP-C6-10LB*-4T		4	69.7		39.6	25	15	2.0 to 5.9	45
VSP-C6-10LB*-6T		6					20	1.1 to 4.8	51
VSP-C6-15LB*-4T		4	79.7		44.6	34	15	2.0 to 5.9	45
VSP-C6-15LB*-6T		6					20	1.1 to 4.8	51
VSP-C6-20LB*-4T		4	95.7		51.6	34	20	1.1 to 4.8	51
VSP-C6-20LB*-6T		6					20	1.1 to 4.8	51
VSP-C8LB*-4T	8	4	65.2	15	35.1	20	6	4.0 to 7.1	37
VSP-C8LB*-6T		6					10	2.0 to 5.2	40
VSP-C8-10LB*-4T		4	69.7		39.6	25	15	2.0 to 5.9	45
VSP-C8-10LB*-6T		6					20	1.1 to 4.8	51
VSP-C8-15LB*-4T		4	79.7		44.6	34	15	2.0 to 5.9	45
VSP-C8-15LB*-6T		6					20	1.1 to 4.8	51
VSP-C8-20LB*-4T		4	95.7		51.6	34	20	1.1 to 4.8	51
VSP-C8-20LB*-6T		6					20	1.1 to 4.8	51
VSP-C10LB*-4T	10	4	65.7	15.5	35.6	20	6	4.0 to 7.1	37
VSP-C10LB*-6T		6					10	2.0 to 5.2	40
VSP-C10-10LB*-4T		4	70.2		40.1	25	15	2.0 to 5.9	45
VSP-C10-10LB*-6T		6					20	1.1 to 4.8	51
VSP-C10-15LB*-4T		4	80.2		45.1	34	15	2.0 to 5.9	45
VSP-C10-15LB*-6T		6					20	1.1 to 4.8	51
VSP-C10-20LB*-4T		4	96.2		52.1	34	20	1.1 to 4.8	51
VSP-C10-20LB*-6T		6					20	1.1 to 4.8	51
VSP-C15LB*-4T	15	4	67.7	17.5	37.6	20	6	4.0 to 7.1	38
VSP-C15LB*-6T		6					10	2.0 to 5.2	41
VSP-C15-10LB*-4T		4	72.2		42.1	25	15	2.0 to 5.9	46
VSP-C15-10LB*-6T		6					20	1.1 to 4.8	52
VSP-C15-15LB*-4T		4	82.2		47.1	34	15	2.0 to 5.9	46
VSP-C15-15LB*-6T		6					20	1.1 to 4.8	52
VSP-C15-20LB*-4T		4	98.2		54.1	34	20	1.1 to 4.8	52
VSP-C15-20LB*-6T		6					20	1.1 to 4.8	52
VSP-C20LB*-4T	20	4	70.1	20	40	20	6	7.0 to 12.6	42
VSP-C20LB*-6T		6					10	3.3 to 10.0	46
VSP-C20-10LB*-4T		4	76.1		46	25	15	3.3 to 10.4	51
VSP-C20-10LB*-6T		6					20	2.0 to 8.7	57
VSP-C20-15LB*-4T		4	86.1		51	34	15	3.3 to 10.4	51
VSP-C20-15LB*-6T		6					20	2.0 to 8.7	57
VSP-C20-20LB*-4T		4	102.1		58	34	20	2.0 to 8.7	57
VSP-C20-20LB*-6T		6					20	2.0 to 8.7	57

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

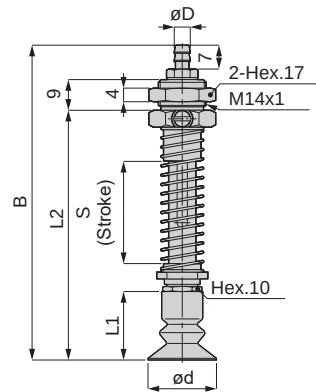
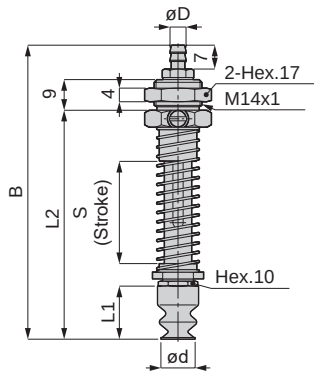
Suction mark
prevention

VSP-*LB* Series

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C6 to 15-□LB*-4TC/6TC

●VSP-C20-□LB*-4TC/6TC



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)					
General/Deep/ Compact	VSP-C6-20LB*-4TC	6	4	72.7	15	53.6	20	1.5 to 4.9	44					
	VSP-C6-20LB*-6TC		6											
Sponge	VSP-C6-30LB*-4TC		4	85.7		66.6	30	1.1 to 4.8	50					
	VSP-C6-30LB*-6TC		6											
Bellows	VSP-C6-40LB*-4TC		4	98.7		79.6	40	1.0 to 4.5	55					
	VSP-C6-40LB*-6TC		6											
	VSP-C6-50LB*-4TC		4							111.7	92.6	50	0.9 to 4.5	60
VSP-C6-50LB*-6TC	6													
Multi-stage bellows	VSP-C8-20LB*-4TC	8	4	72.7	15	53.6	20	1.5 to 4.9	44					
	VSP-C8-20LB*-6TC		6											
	VSP-C8-30LB*-4TC		4	85.7		66.6	30	1.1 to 4.8	50					
	VSP-C8-30LB*-6TC		6											
Oval	VSP-C8-40LB*-4TC		4	98.7		79.6	40	1.0 to 4.5	55					
	VSP-C8-40LB*-6TC		6											
Soft	VSP-C8-50LB*-4TC		4	111.7		92.6	50	0.9 to 4.5	60					
	VSP-C8-50LB*-6TC		6											
Soft bellows	VSP-C10-20LB*-4TC	10	4	15.5	54.1	20	1.5 to 4.9	44						
	VSP-C10-20LB*-6TC		6											
	VSP-C10-30LB*-4TC		4						86.2	67.1	30	1.1 to 4.8	50	
	VSP-C10-30LB*-6TC		6											
	VSP-C10-40LB*-4TC		4						99.2	80.1	40	1.0 to 4.5	55	
	VSP-C10-40LB*-6TC		6											
	VSP-C10-50LB*-4TC		4						112.2	93.1	50	0.9 to 4.5	60	
VSP-C10-50LB*-6TC	6													
Thin object	VSP-C15-20LB*-4TC	15	4	75.2	17.5	56.1	20	1.5 to 4.9	44					
	VSP-C15-20LB*-6TC		6											
	VSP-C15-30LB*-4TC		4							88.2	69.1	30	1.1 to 4.8	50
	VSP-C15-30LB*-6TC		6											
Flat	VSP-C15-40LB*-4TC		4	101.2		82.1	40	1.0 to 4.5	55					
	VSP-C15-40LB*-6TC		6											
	VSP-C15-50LB*-4TC		4							114.2	95.1	50	0.9 to 4.5	60
	VSP-C15-50LB*-6TC		6											
Suction mark prevention	VSP-C20-20LB*-4TC	20	4	79.1	20	60	20	1.5 to 4.9	53					
	VSP-C20-20LB*-6TC		6											
	VSP-C20-30LB*-4TC		4	92.1		73	30	1.1 to 4.8	58					
	VSP-C20-30LB*-6TC		6											
	VSP-C20-40LB*-4TC		4	105.1		86	40	1.0 to 4.5	63					
	VSP-C20-40LB*-6TC		6											
	VSP-C20-50LB*-4TC		4	118.1		99	50	0.9 to 4.5	68					
	VSP-C20-50LB*-6TC		6											

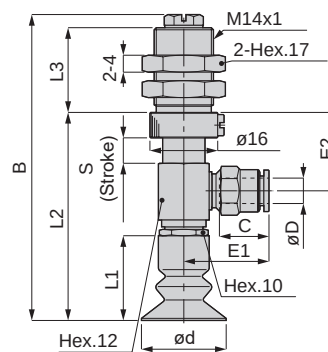
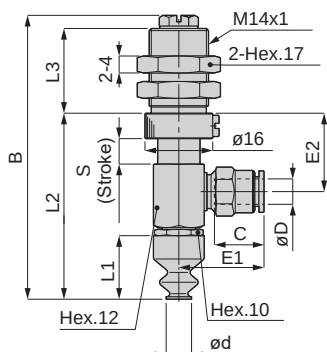
Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

●VSP-D6 to 15LB*-4/6

●VSP-D6 to 15-□LB*-4/6

●VSP-D20LB*-4/6

●VSP-D20-□LB*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D6LB*-4	6	4	67.2	15	44.1	20	11.2	18.8	18.5	6	4.0 to 7.1	49
VSP-D6LB*-6		6					11.9	20.1				50
VSP-D6-10LB*-4		4	72.2		49.1	20	11.2	18.8	25	10	2.0 to 5.2	52
VSP-D6-10LB*-6		6					11.9	20.1				53
VSP-D6-15LB*-4		4	82.2		54.1	25	11.2	18.8	30	15	2.0 to 5.9	58
VSP-D6-15LB*-6		6					11.9	20.1				59
VSP-D6-20LB*-4		4	98.2		61.1	34	11.2	18.8	37	20	1.1 to 4.8	68
VSP-D6-20LB*-6		6					11.9	20.1				69
VSP-D8LB*-4	8	4	67.2	15	44.1	20	11.2	18.8	18.5	6	4.0 to 7.1	49
VSP-D8LB*-6		6					11.9	20.1				50
VSP-D8-10LB*-4		4	72.2		49.1	20	11.2	18.8	25	10	2.0 to 5.2	52
VSP-D8-10LB*-6		6					11.9	20.1				53
VSP-D8-15LB*-4		4	82.2		54.1	25	11.2	18.8	30	15	2.0 to 5.9	58
VSP-D8-15LB*-6		6					11.9	20.1				59
VSP-D8-20LB*-4		4	98.2		61.1	34	11.2	18.8	37	20	1.1 to 4.8	68
VSP-D8-20LB*-6		6					11.9	20.1				69
VSP-D10LB*-4	10	4	67.7	15.5	44.6	20	11.2	18.8	18.5	6	4.0 to 7.1	50
VSP-D10LB*-6		6					11.9	20.1				51
VSP-D10-10LB*-4		4	72.7		49.6	20	11.2	18.8	25	10	2.0 to 5.2	53
VSP-D10-10LB*-6		6					11.9	20.1				54
VSP-D10-15LB*-4		4	82.7		54.6	25	11.2	18.8	30	15	2.0 to 5.9	59
VSP-D10-15LB*-6		6					11.9	20.1				60
VSP-D10-20LB*-4		4	98.7		61.6	34	11.2	18.8	37	20	1.1 to 4.8	69
VSP-D10-20LB*-6		6					11.9	20.1				70
VSP-D15LB*-4	15	4	69.7	17.5	46.6	20	11.2	18.8	18.5	6	4.0 to 7.1	51
VSP-D15LB*-6		6					11.9	20.1				52
VSP-D15-10LB*-4		4	74.7		51.6	20	11.2	18.8	25	10	2.0 to 5.2	54
VSP-D15-10LB*-6		6					11.9	20.1				55
VSP-D15-15LB*-4		4	84.7		56.6	25	11.2	18.8	30	15	2.0 to 5.9	60
VSP-D15-15LB*-6		6					11.9	20.1				61
VSP-D15-20LB*-4		4	100.7		63.6	34	11.2	18.8	37	20	1.1 to 4.8	70
VSP-D15-20LB*-6		6					11.9	20.1				71
VSP-D20LB*-4	20	4	72.1	20	49	20	11.2	18.8	18.5	6	7.0 to 12.6	55
VSP-D20LB*-6		6					11.9	20.1				56
VSP-D20-10LB*-4		4	78.1		55	20	11.2	18.8	24.5	10	3.3 to 10.0	58
VSP-D20-10LB*-6		6					11.9	20.1				59
VSP-D20-15LB*-4		4	88.1		60	25	11.2	18.8	29.5	15	3.3 to 10.4	63
VSP-D20-15LB*-6		6					11.9	20.1				64
VSP-D20-20LB*-4		4	104.1		67	34	11.2	18.8	36.5	20	2.0 to 8.7	73
VSP-D20-20LB*-6		6					11.9	20.1				74

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

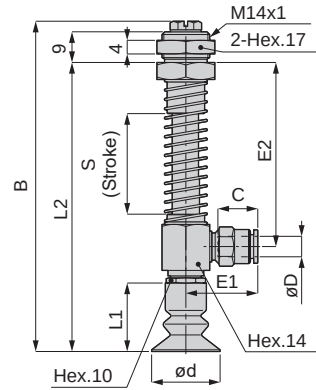
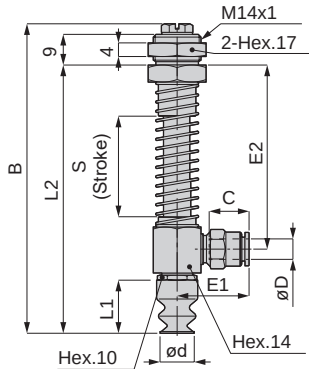
Suction mark
prevention

VSP-*LB* Series

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D6 to 15-□LB*-4C/6C

●VSP-D20-□LB*-4C/6C



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D6-20LB*-4C	6	4	77.2	15	65.1	11.2	19.8	40.5	20	1.5 to 4.9	71
	VSP-D6-20LB*-6C		6				11.9	21.1				72
Sponge	VSP-D6-30LB*-4C		4	90.2		78.1	11.2	19.8	53.5	30	1.1 to 4.8	77
	VSP-D6-30LB*-6C		6				11.9	21.1				78
	VSP-D6-40LB*-4C		4	103.2		91.1	11.2	19.8	66.5	40	1.0 to 4.5	84
	VSP-D6-40LB*-6C		6				11.9	21.1				85
Bellows	VSP-D6-50LB*-4C		4	116.2		104.1	11.2	19.8	79.5	50	0.9 to 4.5	91
	VSP-D6-50LB*-6C		6				11.9	21.1				92
	VSP-D8-20LB*-4C	8	4	77.2	15	65.1	11.2	19.8	40.5	20	1.5 to 4.9	71
	VSP-D8-20LB*-6C		6				11.9	21.1				72
Multi-stage bellows	VSP-D8-30LB*-4C		4	90.2		78.1	11.2	19.8	53.5	30	1.1 to 4.8	77
	VSP-D8-30LB*-6C		6				11.9	21.1				78
	VSP-D8-40LB*-4C		4	103.2		91.1	11.2	19.8	66.5	40	1.0 to 4.5	84
	VSP-D8-40LB*-6C		6				11.9	21.1				85
Oval	VSP-D8-50LB*-4C		4	116.2		104.1	11.2	19.8	79.5	50	0.9 to 4.5	91
	VSP-D8-50LB*-6C		6				11.9	21.1				92
	VSP-D10-20LB*-4C	10	4	77.7	15.5	65.6	11.2	19.8	40.5	20	1.5 to 4.9	71
	VSP-D10-20LB*-6C		6				11.9	21.1				72
Soft bellows	VSP-D10-30LB*-4C		4	90.7		78.6	11.2	19.8	53.5	30	1.1 to 4.8	77
	VSP-D10-30LB*-6C		6				11.9	21.1				78
	VSP-D10-40LB*-4C		4	103.7		91.6	11.2	19.8	66.5	40	1.0 to 4.5	84
	VSP-D10-40LB*-6C		6				11.9	21.1				85
Anti-slip	VSP-D10-50LB*-4C		4	116.7		104.6	11.2	19.8	79.5	50	0.9 to 4.5	91
	VSP-D10-50LB*-6C		6				11.9	21.1				92
	VSP-D15-20LB*-4C	15	4	79.7	17.5	67.6	11.2	19.8	40.5	20	1.5 to 4.9	71
	VSP-D15-20LB*-6C		6				11.9	21.1				72
Thin object	VSP-D15-30LB*-4C		4	92.7		80.6	11.2	19.8	53.5	30	1.1 to 4.8	77
	VSP-D15-30LB*-6C		6				11.9	21.1				78
	VSP-D15-40LB*-4C		4	105.7		93.6	11.2	19.8	66.5	40	1.0 to 4.5	84
	VSP-D15-40LB*-6C		6				11.9	21.1				85
Flat	VSP-D15-50LB*-4C		4	118.7		106.6	11.2	19.8	79.5	50	0.9 to 4.5	91
	VSP-D15-50LB*-6C		6				11.9	21.1				92
	VSP-D20-20LB*-4C	20	4	83.6	20	71.5	11.2	19.8	41	20	1.5 to 4.9	72
	VSP-D20-20LB*-6C		6				11.9	21.1				73
Suction mark prevention	VSP-D20-30LB*-4C		4	96.6		84.5	11.2	19.8	54	30	1.1 to 4.8	79
	VSP-D20-30LB*-6C		6				11.9	21.1				80
	VSP-D20-40LB*-4C		4	109.6		97.5	11.2	19.8	67	40	1.0 to 4.5	84
	VSP-D20-40LB*-6C		6				11.9	21.1				85
	VSP-D20-50LB*-4C		4	122.6		110.5	11.2	19.8	80	50	0.9 to 4.5	92
	VSP-D20-50LB*-6C		6				11.9	21.1				93

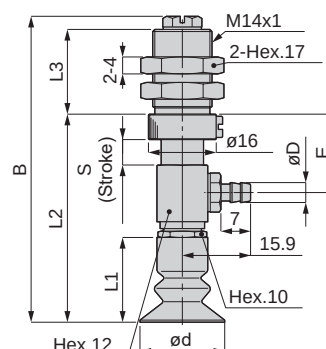
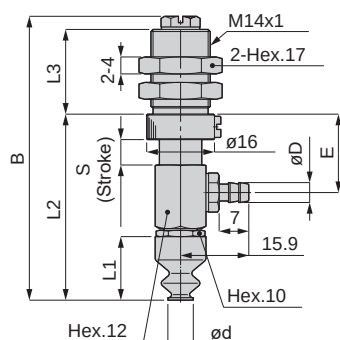
Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting)

●VSP-D6 to 15LB*-4T/6T

●VSP-D6 to 15-□LB*-4T/6T

●VSP-D20LB*-4T/6T

●VSP-D20-□LB*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D6LB*-4T	6	2.5	67.2	15	44.1	20	18.5	6	4.0 to 7.1	49
VSP-D6LB*-6T		4								
VSP-D6-10LB*-4T		2.5	72.2		49.1	25	10	2.0 to 5.2	50	
VSP-D6-10LB*-6T		4								
VSP-D6-15LB*-4T		2.5	82.2		54.1	25	30	15	2.0 to 5.9	56
VSP-D6-15LB*-6T		4								
VSP-D6-20LB*-4T		2.5	98.2		61.1	34	37	20	1.1 to 4.8	66
VSP-D6-20LB*-6T		4								
VSP-D8LB*-4T	8	2.5	67.2	15	44.1	20	18.5	6	4.0 to 7.1	48
VSP-D8LB*-6T		4								
VSP-D8-10LB*-4T		2.5	72.2		49.1	25	10	2.0 to 5.2	50	
VSP-D8-10LB*-6T		4								
VSP-D8-15LB*-4T		2.5	82.2		54.1	25	30	15	2.0 to 5.9	56
VSP-D8-15LB*-6T		4								
VSP-D8-20LB*-4T		2.5	98.2		61.1	34	37	20	1.1 to 4.8	66
VSP-D8-20LB*-6T		4								
VSP-D10LB*-4T	10	2.5	67.7	15.5	44.6	20	18.5	6	4.0 to 7.1	49
VSP-D10LB*-6T		4								
VSP-D10-10LB*-4T		2.5	72.7		49.6	25	10	2.0 to 5.2	50	
VSP-D10-10LB*-6T		4								
VSP-D10-15LB*-4T		2.5	82.7		54.6	25	30	15	2.0 to 5.9	56
VSP-D10-15LB*-6T		4								
VSP-D10-20LB*-4T		2.5	98.2		61.6	34	37	20	1.1 to 4.8	66
VSP-D10-20LB*-6T		4								
VSP-D15LB*-4T	15	2.5	69.7	17.5	46.6	20	18.5	6	4.0 to 7.1	50
VSP-D15LB*-6T		4								
VSP-D15-10LB*-4T		2.5	74.7		51.6	25	10	2.0 to 5.2	51	
VSP-D15-10LB*-6T		4								
VSP-D15-15LB*-4T		2.5	84.7		56.6	25	30	15	2.0 to 5.9	57
VSP-D15-15LB*-6T		4								
VSP-D15-20LB*-4T		2.5	100.7		63.6	34	37	20	1.1 to 4.8	67
VSP-D15-20LB*-6T		4								
VSP-D20LB*-4T	20	2.5	72.1	20	49	20	18.5	6	7.0 to 12.6	53
VSP-D20LB*-6T		4								
VSP-D20-10LB*-4T		2.5	78.1		55	24.5	10	3.3 to 10.0	54	
VSP-D20-10LB*-6T		4								
VSP-D20-15LB*-4T		2.5	88.1		60	25	29.5	15	3.3 to 10.4	61
VSP-D20-15LB*-6T		4								
VSP-D20-20LB*-4T		2.5	104.1		67	34	36.5	20	2.0 to 8.7	71
VSP-D20-20LB*-6T		4								

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

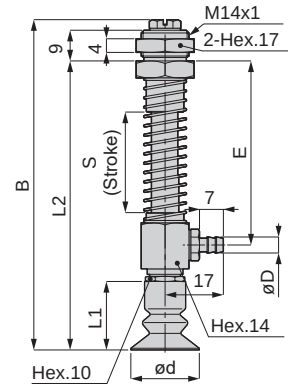
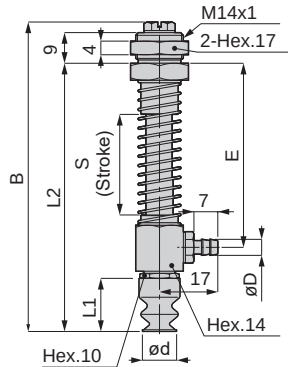
Suction mark prevention

VSP-*LB* Series

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D6 to 15-□LB*-4TC/6TC

●VSP-D20-□LB*-4TC/6TC

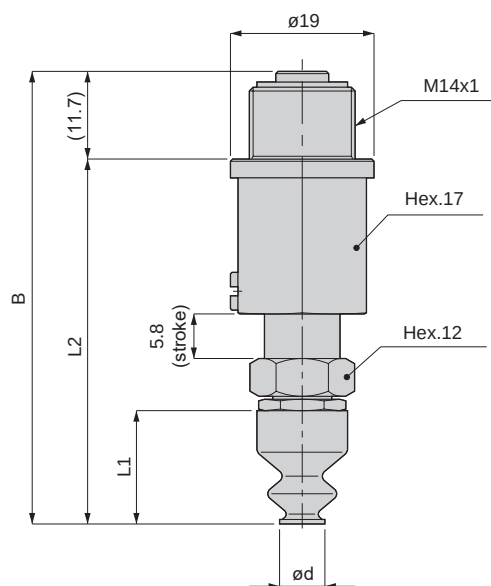


Unit: mm

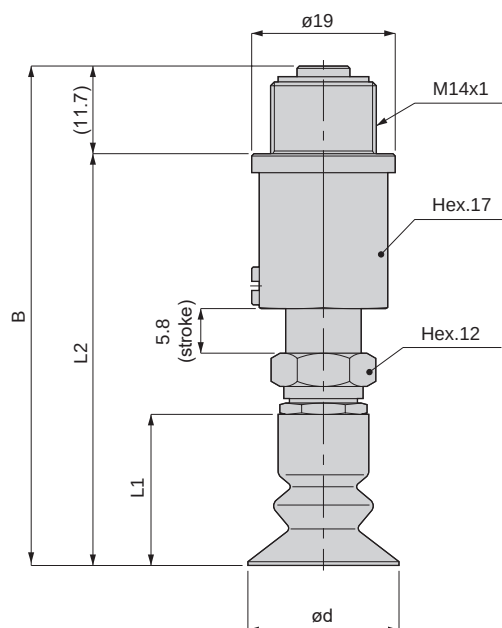
	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D6-20LB*-4TC	6	2.5	77.2	15	65.1	40.5	20	1.5 to 4.9	67
	VSP-D6-20LB*-6TC		4							
Sponge	VSP-D6-30LB*-4TC		2.5	90.2		78.1	53.5	30	1.1 to 4.8	74
	VSP-D6-30LB*-6TC		4							
Bellows	VSP-D6-40LB*-4TC		2.5	103.2		91.1	66.5	40	1.0 to 4.5	81
	VSP-D6-40LB*-6TC		4							
	VSP-D6-50LB*-4TC		2.5	116.2		104.1	79.5	50	0.9 to 4.5	87
	VSP-D6-50LB*-6TC		4							
Multi-stage bellows	VSP-D8-20LB*-4TC	8	2.5	77.2	15	65.1	40.5	20	1.5 to 4.9	68
	VSP-D8-20LB*-6TC		4							
	VSP-D8-30LB*-4TC		2.5	90.2		78.1	53.5	30	1.1 to 4.8	75
	VSP-D8-30LB*-6TC		4							
Oval	VSP-D8-40LB*-4TC		2.5	103.2		91.1	66.5	40	1.0 to 4.5	82
	VSP-D8-40LB*-6TC		4							
	VSP-D8-50LB*-4TC		2.5	116.2		104.1	79.5	50	0.9 to 4.5	88
	VSP-D8-50LB*-6TC		4							
Soft	VSP-D10-20LB*-4TC	10	2.5	77.7	15.5	65.6	40.5	20	1.5 to 4.9	68
	VSP-D10-20LB*-6TC		4							
Soft bellows	VSP-D10-30LB*-4TC		2.5	90.7		78.6	53.5	30	1.1 to 4.8	75
	VSP-D10-30LB*-6TC		4							
Anti-slip	VSP-D10-40LB*-4TC		2.5	103.7		91.6	66.5	40	1.0 to 4.5	82
	VSP-D10-40LB*-6TC		4							
	VSP-D10-50LB*-4TC		2.5	116.7		104.6	79.5	50	0.9 to 4.5	88
	VSP-D10-50LB*-6TC		4							
Thin object	VSP-D15-20LB*-4TC	15	2.5	79.7	17.5	67.6	40.5	20	1.5 to 4.9	68
	VSP-D15-20LB*-6TC		4							
	VSP-D15-30LB*-4TC		2.5	92.7		80.6	53.5	30	1.1 to 4.8	75
	VSP-D15-30LB*-6TC		4							
Flat	VSP-D15-40LB*-4TC		2.5	105.7		93.6	66.5	40	1.0 to 4.5	82
	VSP-D15-40LB*-6TC		4							
	VSP-D15-50LB*-4TC		2.5	118.7		106.6	79.5	50	0.9 to 4.5	88
	VSP-D15-50LB*-6TC		4							
Suction mark prevention	VSP-D20-20LB*-4TC	20	4	83.6	20	71.5	41	20	1.5 to 4.9	70
	VSP-D20-20LB*-6TC		6							
	VSP-D20-30LB*-4TC		4	96.6		84.5	54	30	1.1 to 4.8	77
	VSP-D20-30LB*-6TC		6							
	VSP-D20-40LB*-4TC		4	109.6		97.5	67	40	1.0 to 4.5	84
	VSP-D20-40LB*-6TC		6							
	VSP-D20-50LB*-4TC		4	122.6		110.5	80	50	0.9 to 4.5	90
	VSP-D20-50LB*-6TC		6							

Dimensions (direct mounting buffer, VSP-F)

●VSP-F6 to 15LB*



●VSP-F20LB*



Unit: mm

Model No.	Pad diameter ød	B	L1	L2	Spring force (N)	Weight (g)
VSP-F6LB*	6	60.1	15	48.4	8.8 to 12.7	58
VSP-F8LB*	8	60.1	15	48.4	8.8 to 12.7	58
VSP-F10LB*	10	60.6	15.5	48.9	8.8 to 12.7	59
VSP-F15LB*	15	62.6	17.5	50.9	8.8 to 12.7	60
VSP-F20LB*	20	66.1	20	54.5	8.8 to 12.7	63

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

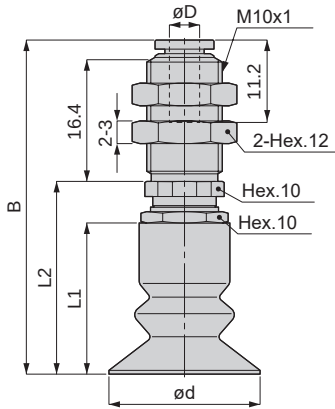
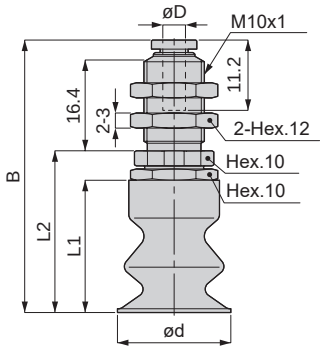
Suction mark
prevention

VSP-***LB*** Series

Dimensions (compact fixed, vacuum outlet top VSP-MA, push-in fitting)

●VSP-MA6 to 15LB*-4

●VSP-MA20LB*-4

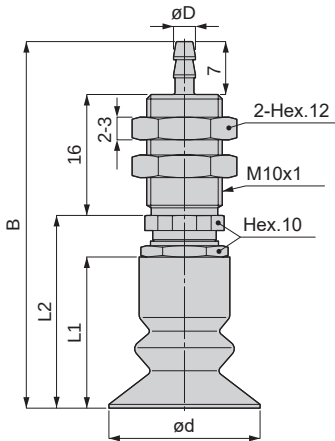
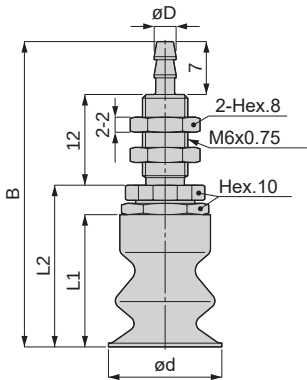


Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA6LB*-4	6	4	38.1	15	19.1	8.6
VSP-MA8LB*-4	8	4	38.1	15	19.1	8.6
VSP-MA10LB*-4	10	4	38.6	15.5	19.6	8.6
VSP-MA15LB*-4	15	4	40.6	17.5	21.6	8.8
VSP-MA20LB*-4	20	4	44.6	20	25.6	12

Dimensions (compact fixed, vacuum outlet side VSP-MA, barbed fitting)

●VSP-MA6 to 15LB*-4T

●VSP-MA20LB*-4T/6T

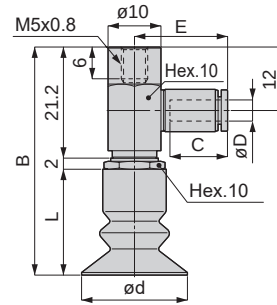
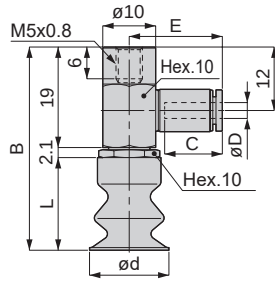


Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA6LB*-4T	6	2.5	38.1	15	19.1	5.8
VSP-MA8LB*-4T	8	2.5	38.1	15	19.1	5.8
VSP-MA10LB*-4T	10	2.5	38.6	15.5	19.6	5.8
VSP-MA15LB*-4T	15	2.5	40.6	17.5	21.6	6
VSP-MA20LB*-4T	20	2.5	48.6	20	25.6	12
VSP-MA20LB*-6T		4				

Dimensions (compact fixed, vacuum outlet side VSP-MB, push-in fitting)

●VSP-MB6 to 15LB*-2/4/6

●VSP-MB20LB*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB6LB*-2	6	1.8	36.1	15	8.4	13.7	10
VSP-MB6LB*-4		4			11.2	17.8	11
VSP-MB6LB*-6		6			11.9	19.6	12
VSP-MB8LB*-2	8	1.8	36.1	15	8.4	13.7	10
VSP-MB8LB*-4		4			11.2	17.8	11
VSP-MB8LB*-6		6			11.9	19.6	12
VSP-MB10LB*-2	10	1.8	36.6	15.5	8.4	13.7	10
VSP-MB10LB*-4		4			11.2	17.8	11
VSP-MB10LB*-6		6			11.9	19.6	12
VSP-MB15LB*-2	15	1.8	38.6	17.5	8.4	13.7	10
VSP-MB15LB*-4		4			11.2	17.8	11
VSP-MB15LB*-6		6			11.9	19.6	12
VSP-MB20LB*-2	20	1.8	43.2	20	8.4	13.7	12
VSP-MB20LB*-4		4			11.2	17.8	13
VSP-MB20LB*-6		6			11.9	19.6	14

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

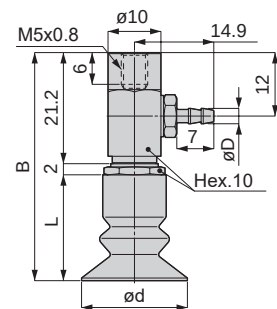
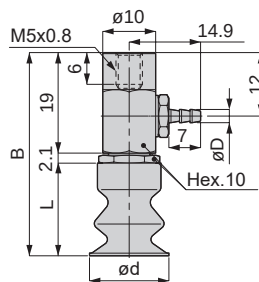
Flat

Suction mark
prevention

Dimensions (compact fixed, vacuum outlet side VSP-MB, barbed fitting)

●VSP-MB6 to 15LB*-4T/6T

●VSP-MB20LB*-4T/6T



Unit: mm

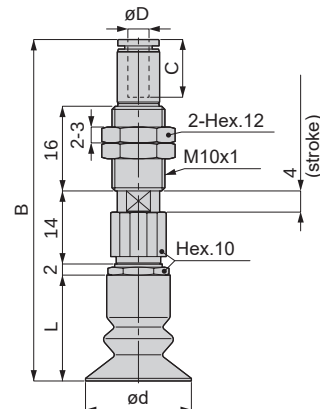
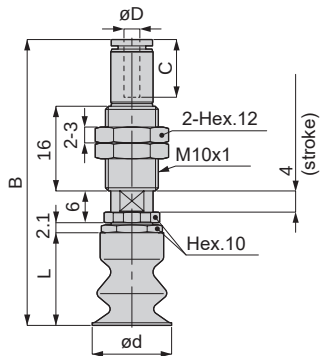
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB6LB*-4T	6	2.5	36.1	15	8.9
VSP-MB6LB*-6T		4			
VSP-MB8LB*-4T	8	2.5	36.1	15	8.9
VSP-MB8LB*-6T		4			
VSP-MB10LB*-4T	10	2.5	36.6	15.5	9
VSP-MB10LB*-6T		4			
VSP-MB15LB*-4T	15	2.5	38.6	17.5	9.1
VSP-MB15LB*-6T		4			
VSP-MB20LB*-4T	20	2.5	43.2	20	11
VSP-MB20LB*-6T		4			

VSP-*LB* Series

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

●VSP-MC6 to 15LB*-2/4

●VSP-MC20LB*-2/4



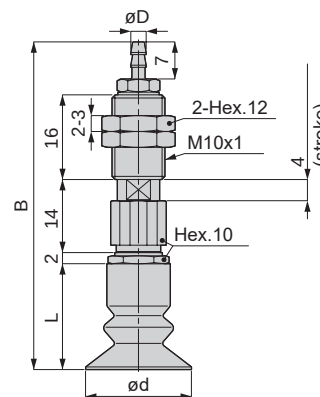
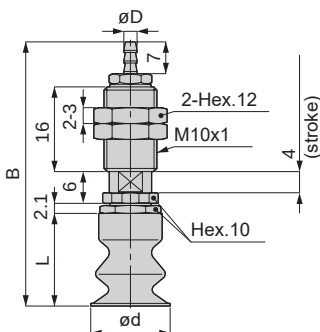
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC6LB*-2	6	1.8	48	15	8.4	1 to 1.3	17
VSP-MC6LB*-4		4	52.1		11.2		18
VSP-MC8LB*-2	8	1.8	48	15	8.4	1 to 1.3	17
VSP-MC8LB*-4		4	52.1		11.2		18
VSP-MC10LB*-2	10	1.8	48.5	15.5	8.4	1 to 1.3	17
VSP-MC10LB*-4		4	52.6		11.2		18
VSP-MC15LB*-2	15	1.8	50.5	17.5	8.4	1 to 1.3	17
VSP-MC15LB*-4		4	54.6		11.2		18
VSP-MC20LB*-2	20	1.8	60.9	20	8.4	1 to 1.3	22
VSP-MC20LB*-4		4	65		11.2		23

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

●VSP-MC6 to 15LB*-4T/6T

●VSP-MC20LB*-4T/6T

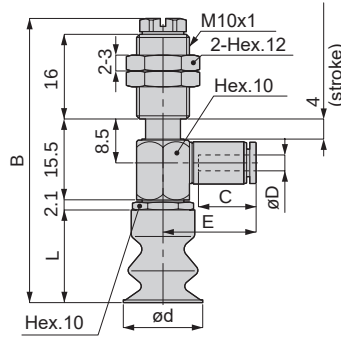


Unit: mm

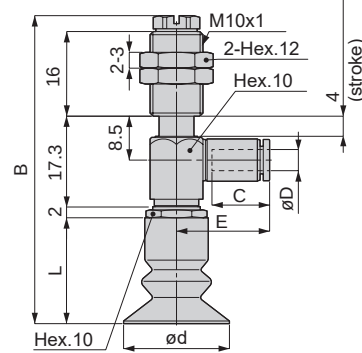
Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC6LB*-4T	6	2.5	49.2	15	0.5 to 0.6	17
VSP-MC6LB*-6T		4				
VSP-MC8LB*-4T	8	2.5	49.2	15	0.5 to 0.6	17
VSP-MC8LB*-6T		4				
VSP-MC10LB*-4T	10	2.5	49.7	15.5	0.5 to 0.6	17
VSP-MC10LB*-6T		4				
VSP-MC15LB*-4T	15	2.5	51.7	17.5	0.5 to 0.6	17
VSP-MC15LB*-6T		4				
VSP-MC20LB*-4T	20	2.5	62.1	20	1 to 1.3	22
VSP-MC20LB*-6T		4				

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

●VSP-MD6 to 15LB*-2/4/6



●VSP-MD20LB*-2/4/6

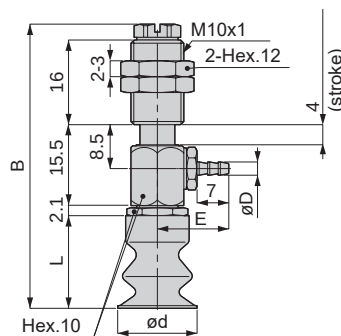


Unit: mm

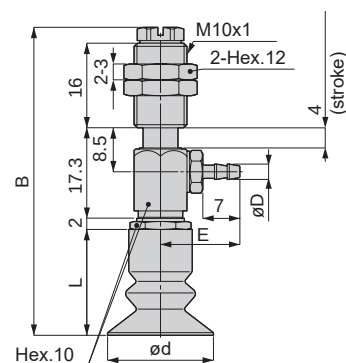
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD6LB*-2	6	1.8	51.6	15	8.4	13.6	1 to 1.3	25
VSP-MD6LB*-4		4			11.2	17.7		26
VSP-MD6LB*-6		6			11.9	19.5		27
VSP-MD8LB*-2	8	1.8	51.6	15	8.4	13.6	1 to 1.3	25
VSP-MD8LB*-4		4			11.2	17.7		26
VSP-MD8LB*-6		6			11.9	19.5		27
VSP-MD10LB*-2	10	1.8	52.1	15.5	8.4	13.6	1 to 1.3	25
VSP-MD10LB*-4		4			11.2	17.7		26
VSP-MD10LB*-6		6			11.9	19.5		27
VSP-MD15LB*-2	15	1.8	54.1	17.5	8.4	13.6	1 to 1.3	25
VSP-MD15LB*-4		4			11.2	17.7		26
VSP-MD15LB*-6		6			11.9	19.5		27
VSP-MD20LB*-2	20	1.8	58.3	20	8.4	13.6	1 to 1.3	26
VSP-MD20LB*-4		4			11.2	17.7		27
VSP-MD20LB*-6		6			11.9	19.5		28

Dimensions (compact buffer, vacuum outlet side VSP-MD, barbed fitting)

●VSP-MD6 to 15LB*-4T/6T



●VSP-MD20LB*-4T/6T



Unit: mm

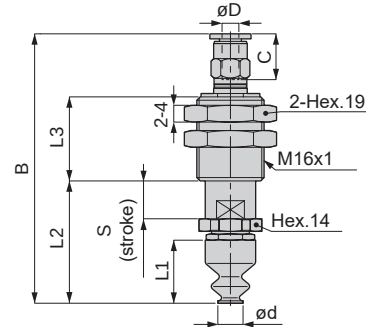
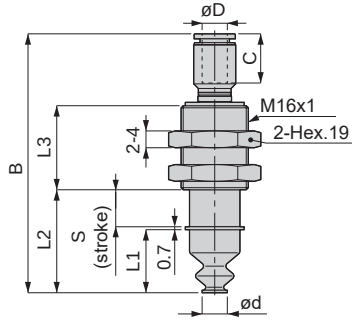
Model No.	Pad diameter ød	Bore size øD	B	L	E	Spring force (N)	Weight (g)
VSP-MD6LB*-4T	6	2.5	51.6	15	14.8	1 to 1.3	24
VSP-MD6LB*-6T		4					
VSP-MD8LB*-4T	8	2.5	51.6	15	14.8	1 to 1.3	24
VSP-MD8LB*-6T		4					
VSP-MD10LB*-4T	10	2.5	52.1	15.5	14.8	1 to 1.3	24
VSP-MD10LB*-6T		4					
VSP-MD15LB*-4T	15	2.5	54.1	17.5	14.8	1 to 1.3	24
VSP-MD15LB*-6T		4					
VSP-MD20LB*-4T	20	2.5	58.3	20	14.8	1 to 1.3	26
VSP-MD20LB*-6T		4					

VSP-*LB* Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC6, 8LB*-2/4/6

●VSP-HC6, 8-□LB*-2/4/6



Unit: mm

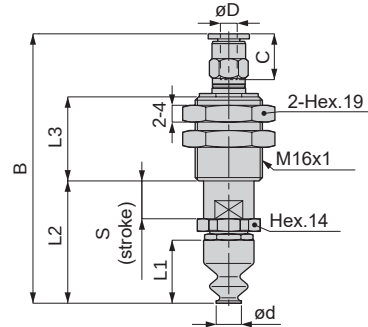
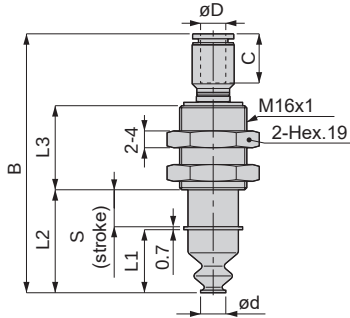
Suction pad

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC6LB*-2	6	1.8	55.9	15	24.7	20	8.4	9	0.9 to 2.7	20
	VSP-HC6LB*-4		4					11.2			21
	VSP-HC6LB*-6		6					11.9			22
	VSP-HC6-10LB*-2		1.8			30.1	21.5	8.4	10	1.0 to 2.4	24
	VSP-HC6-10LB*-4		4					11.2			25
	VSP-HC6-10LB*-6		6					11.9			26
Sponge	VSP-HC6-15LB*-2		1.8			35.1	26.5	8.4	15	1.0 to 2.7	26
	VSP-HC6-15LB*-4		4					11.2			27
	VSP-HC6-15LB*-6		6					11.9			28
Bellows	VSP-HC6-20LB*-2		1.8			40.1	31.5	8.4	20	1.0 to 3.0	28
	VSP-HC6-20LB*-4		4					11.2			29
	VSP-HC6-20LB*-6		6					11.9			30
Multi-stage bellows	VSP-HC6-25LB*-2		1.8			45.1	37	8.4	25	1.0 to 3.0	30
	VSP-HC6-25LB*-4		4					11.2			31
	VSP-HC6-25LB*-6		6					11.9			32
Oval	VSP-HC6-30LB*-2		1.8			50.1	43	8.4	30	1.0 to 3.0	32
	VSP-HC6-30LB*-4		4					11.2			33
	VSP-HC6-30LB*-6		6					11.9			34
Soft	VSP-HC6-40LB*-2		1.8			60.1	55	8.4	40	1.0 to 3.0	35
	VSP-HC6-40LB*-4		4					11.2			36
	VSP-HC6-40LB*-6		6					11.9			37
Soft bellows	VSP-HC6-50LB*-2		1.8			70.1	66.5	8.4	50	1.0 to 3.1	39
	VSP-HC6-50LB*-4		4					11.2			40
	VSP-HC6-50LB*-6		6					11.9			41
Anti-slip	VSP-HC8LB*-2	8	1.8	55.9	15	24.7	20	8.4	9	0.9 to 2.7	20
	VSP-HC8LB*-4		4					11.2			21
	VSP-HC8LB*-6		6					11.9			22
Thin object	VSP-HC8-10LB*-2		1.8			30.1	21.5	8.4	10	1.0 to 2.4	24
	VSP-HC8-10LB*-4		4					11.2			25
	VSP-HC8-10LB*-6		6					11.9			26
Flat	VSP-HC8-15LB*-2		1.8			35.1	26.5	8.4	15	1.0 to 2.7	26
	VSP-HC8-15LB*-4		4					11.2			27
	VSP-HC8-15LB*-6		6					11.9			28
Suction mark prevention	VSP-HC8-20LB*-2		1.8			40.1	31.5	8.4	20	1.0 to 3.0	28
	VSP-HC8-20LB*-4		4					11.2			29
	VSP-HC8-20LB*-6		6					11.9			30
	VSP-HC8-25LB*-2		1.8			45.1	37	8.4	25	1.0 to 3.0	30
	VSP-HC8-25LB*-4		4					11.2			31
	VSP-HC8-25LB*-6		6					11.9			32
	VSP-HC8-30LB*-2		1.8			50.1	43	8.4	30	1.0 to 3.0	32
	VSP-HC8-30LB*-4		4					11.2			33
	VSP-HC8-30LB*-6		6					11.9			34
	VSP-HC8-40LB*-2		1.8			60.1	55	8.4	40	1.0 to 3.0	35
	VSP-HC8-40LB*-4		4					11.2			36
	VSP-HC8-40LB*-6		6					11.9			37
	VSP-HC8-50LB*-2		1.8			70.1	66.5	8.4	50	1.0 to 3.1	39
	VSP-HC8-50LB*-4		4					11.2			40
	VSP-HC8-50LB*-6		6					11.9			41

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC10, 15LB*-2/4/6

●VSP-HC10, 15-□LB*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10LB*-2	10	1.8	56.4	15.5	25.2	20	8.4	9	0.9 to 2.7	20
VSP-HC10LB*-4		4	60.4				11.2			21
VSP-HC10LB*-6		6	61.7				11.9			22
VSP-HC10-10LB*-2		1.8	63.2		30.6	21.5	8.4	10	1.0 to 2.4	24
VSP-HC10-10LB*-4		4	67.3				11.2			25
VSP-HC10-10LB*-6		6	68.6				11.9			26
VSP-HC10-15LB*-2		1.8	73.2		35.6	26.5	8.4	15	1.0 to 2.7	26
VSP-HC10-15LB*-4		4	77.3				11.2			27
VSP-HC10-15LB*-6		6	78.6				11.9			28
VSP-HC10-20LB*-2		1.8	83.2		40.6	31.5	8.4	20	1.0 to 3.0	28
VSP-HC10-20LB*-4		4	87.3				11.2			29
VSP-HC10-20LB*-6		6	88.6				11.9			30
VSP-HC10-25LB*-2		1.8	93.7		45.6	37	8.4	25	1.0 to 3.0	30
VSP-HC10-25LB*-4		4	97.8				11.2			31
VSP-HC10-25LB*-6		6	99.1				11.9			32
VSP-HC10-30LB*-2		1.8	104.7		50.6	43	8.4	30	1.0 to 3.0	32
VSP-HC10-30LB*-4		4	108.8				11.2			33
VSP-HC10-30LB*-6		6	110.1				11.9			34
VSP-HC10-40LB*-2		1.8	126.7		60.6	55	8.4	40	1.0 to 3.0	35
VSP-HC10-40LB*-4		4	130.8				11.2			36
VSP-HC10-40LB*-6		6	132.1				11.9			37
VSP-HC10-50LB*-2		1.8	148.2		70.6	66.5	8.4	50	1.0 to 3.1	39
VSP-HC10-50LB*-4		4	152.3				11.2			40
VSP-HC10-50LB*-6		6	153.6				11.9			41
VSP-HC15LB*-2	15	1.8	58.4	17.5	27.2	20	8.4	9	0.9 to 2.7	20
VSP-HC15LB*-4		4	62.4				11.2			21
VSP-HC15LB*-6		6	63.7				11.9			22
VSP-HC15-10LB*-2		1.8	65.2		32.6	21.5	8.4	10	1.0 to 2.4	24
VSP-HC15-10LB*-4		4	69.3				11.2			25
VSP-HC15-10LB*-6		6	70.6				11.9			26
VSP-HC15-15LB*-2		1.8	75.2		37.6	26.5	8.4	15	1.0 to 2.7	26
VSP-HC15-15LB*-4		4	79.3				11.2			27
VSP-HC15-15LB*-6		6	80.6				11.9			28
VSP-HC15-20LB*-2		1.8	85.2		42.6	31.5	8.4	20	1.0 to 3.0	28
VSP-HC15-20LB*-4		4	89.3				11.2			29
VSP-HC15-20LB*-6		6	90.6				11.9			30
VSP-HC15-25LB*-2		1.8	95.7		47.6	37	8.4	25	1.0 to 3.0	30
VSP-HC15-25LB*-4		4	99.8				11.2			31
VSP-HC15-25LB*-6		6	101.1				11.9			32
VSP-HC15-30LB*-2		1.8	106.7		52.6	43	8.4	30	1.0 to 3.0	32
VSP-HC15-30LB*-4		4	110.8				11.2			33
VSP-HC15-30LB*-6		6	112.1				11.9			34
VSP-HC15-40LB*-2		1.8	128.7		62.6	55	8.4	40	1.0 to 3.0	35
VSP-HC15-40LB*-4		4	132.8				11.2			36
VSP-HC15-40LB*-6		6	134.1				11.9			37
VSP-HC15-50LB*-2		1.8	150.2		72.6	66.5	8.4	50	1.0 to 3.1	39
VSP-HC15-50LB*-4		4	154.3				11.2			40
VSP-HC15-50LB*-6		6	155.6				11.9			41

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

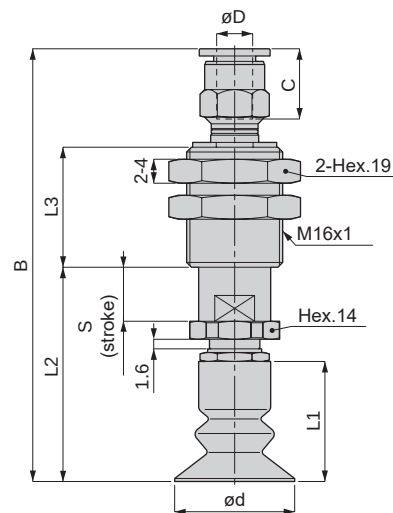
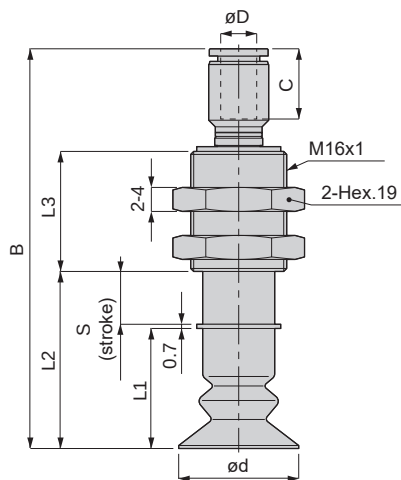
Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC20LB*-2/4/6

●VSP-HC20-□LB*-2/4/6



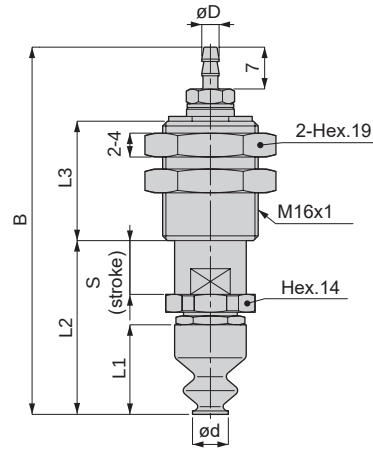
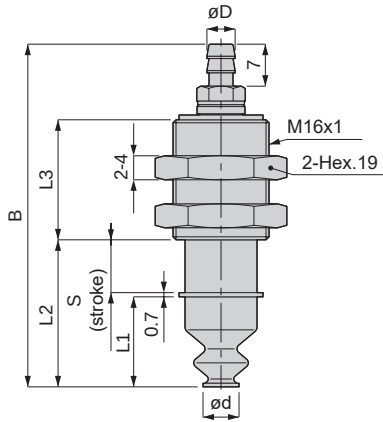
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC20LB*-2	20	1.8	60.9	20	29.7	20	8.4	9	0.9 to 2.7	21
VSP-HC20LB*-4		4	64.9				11.2			22
VSP-HC20LB*-6		6	66.2				11.9			23
VSP-HC20-10LB*-2		1.8	69.2		35	21.5	8.4	10	1.0 to 2.4	27
VSP-HC20-10LB*-4		4	73.3				11.2			28
VSP-HC20-10LB*-6		6	74.6				11.9			29
VSP-HC20-15LB*-2		1.8	79.2		40	26.5	8.4	15	1.0 to 2.7	29
VSP-HC20-15LB*-4		4	83.3				11.2			30
VSP-HC20-15LB*-6		6	84.6				11.9			31
VSP-HC20-20LB*-2		1.8	89.2		45	31.5	8.4	20	1.0 to 3.0	31
VSP-HC20-20LB*-4		4	93.3				11.2			32
VSP-HC20-20LB*-6		6	94.6				11.9			33
VSP-HC20-25LB*-2		1.8	99.7		50	37	8.4	25	1.0 to 3.0	33
VSP-HC20-25LB*-4		4	103.8				11.2			34
VSP-HC20-25LB*-6		6	105.1				11.9			35
VSP-HC20-30LB*-2		1.8	110.7		55	43	8.4	30	1.0 to 3.0	35
VSP-HC20-30LB*-4		4	114.8				11.2			36
VSP-HC20-30LB*-6		6	116.1				11.9			37
VSP-HC20-40LB*-2		1.8	132.7		65	55	8.4	40	1.0 to 3.0	39
VSP-HC20-40LB*-4		4	136.8				11.2			40
VSP-HC20-40LB*-6		6	138.1				11.9			41
VSP-HC20-50LB*-2		1.8	154.2		75	66.5	8.4	50	1.0 to 3.1	43
VSP-HC20-50LB*-4		4	158.3				11.2			44
VSP-HC20-50LB*-6		6	159.6				11.9			45

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC6, 8LB*-4T/6T

●VSP-HC6, 8-□LB*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC6LB*-4T	6	2.5	57.1	15	24.7	20	9	0.9 to 2.7	20
VSP-HC6LB*-6T		4							
VSP-HC6-10LB*-4T		2.5	63.9		30.1	21.5	10	1.0 to 2.4	24
VSP-HC6-10LB*-6T		4							
VSP-HC6-15LB*-4T		2.5	73.9		35.1	26.5	15	1.0 to 2.7	26
VSP-HC6-15LB*-6T		4							
VSP-HC6-20LB*-4T		2.5	83.9		40.1	31.5	20	1.0 to 3.0	28
VSP-HC6-20LB*-6T		4							
VSP-HC6-25LB*-4T		2.5	94.4		45.1	37	25	1.0 to 3.0	31
VSP-HC6-25LB*-6T		4							
VSP-HC6-30LB*-4T		2.5	105.4		50.1	43	30	1.0 to 3.0	33
VSP-HC6-30LB*-6T		4							
VSP-HC6-40LB*-4T		2.5	127.4		60.1	55	40	1.0 to 3.0	37
VSP-HC6-40LB*-6T		4							
VSP-HC6-50LB*-4T		2.5	148.9		70.1	66.5	50	1.0 to 3.1	41
VSP-HC6-50LB*-6T		4							
VSP-HC8LB*-4T	8	2.5	57.1	15	24.7	20	9	0.9 to 2.7	20
VSP-HC8LB*-6T		4							
VSP-HC8-10LB*-4T		2.5	63.9		30.1	21.5	10	1.0 to 2.4	24
VSP-HC8-10LB*-6T		4							
VSP-HC8-15LB*-4T		2.5	73.9		35.1	26.5	15	1.0 to 2.7	26
VSP-HC8-15LB*-6T		4							
VSP-HC8-20LB*-4T		2.5	83.9		40.1	31.5	20	1.0 to 3.0	28
VSP-HC8-20LB*-6T		4							
VSP-HC8-25LB*-4T		2.5	94.4		45.1	37	25	1.0 to 3.0	31
VSP-HC8-25LB*-6T		4							
VSP-HC8-30LB*-4T		2.5	105.4		50.1	43	30	1.0 to 3.0	33
VSP-HC8-30LB*-6T		4							
VSP-HC8-40LB*-4T		2.5	127.4		60.1	55	40	1.0 to 3.0	37
VSP-HC8-40LB*-6T		4							
VSP-HC8-50LB*-4T		2.5	148.9		70.1	66.5	50	1.0 to 3.1	41
VSP-HC8-50LB*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

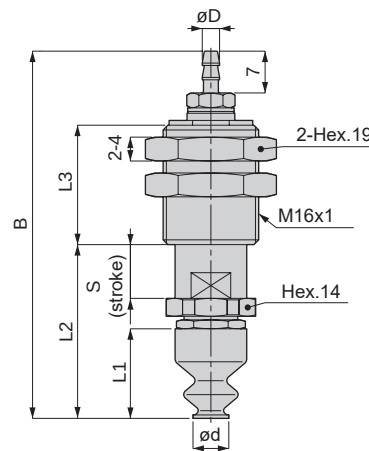
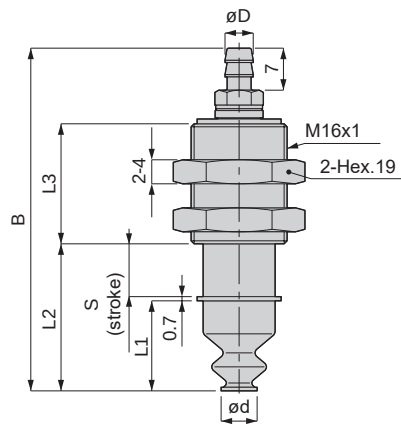
Suction mark
prevention

VSP-*LB* Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC10, 15LB*-4T/6T

●VSP-HC10, 15-□LB*-4T/6T



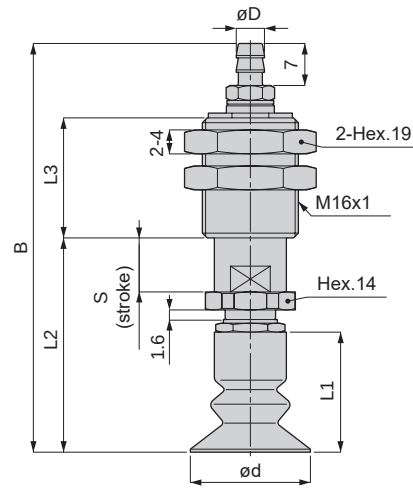
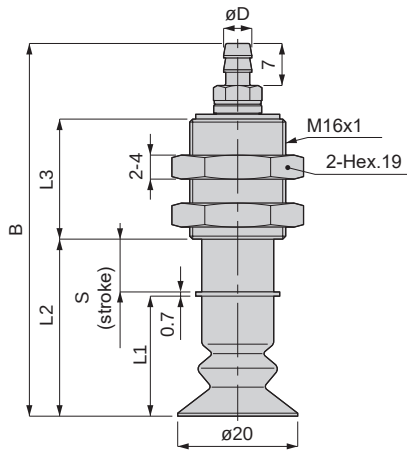
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10LB*-4T	10	2.5	57.6	15.5	25.2	20	9	0.9 to 2.7	20
VSP-HC10LB*-6T		4							
VSP-HC10-10LB*-4T		2.5	64.4		30.6	21.5	10	1.0 to 2.4	24
VSP-HC10-10LB*-6T		4							
VSP-HC10-15LB*-4T		2.5	74.4		35.6	26.5	15	1.0 to 2.7	26
VSP-HC10-15LB*-6T		4							
VSP-HC10-20LB*-4T		2.5	84.4		40.6	31.5	20	1.0 to 3.0	28
VSP-HC10-20LB*-6T		4							
VSP-HC10-25LB*-4T		2.5	94.9		45.6	37	25	1.0 to 3.0	31
VSP-HC10-25LB*-6T		4							
VSP-HC10-30LB*-4T		2.5	105.9		50.6	43	30	1.0 to 3.0	33
VSP-HC10-30LB*-6T		4							
VSP-HC10-40LB*-4T		2.5	127.9		60.6	55	40	1.0 to 3.0	37
VSP-HC10-40LB*-6T		4							
VSP-HC10-50LB*-4T		2.5	149.4		70.6	66.5	50	1.0 to 3.1	41
VSP-HC10-50LB*-6T		4							
VSP-HC15LB*-4T	15	2.5	59.6	17.5	27.2	20	9	0.9 to 2.7	20
VSP-HC15LB*-6T		4							
VSP-HC15-10LB*-4T		2.5	66.4		32.6	21.5	10	1.0 to 2.4	24
VSP-HC15-10LB*-6T		4							
VSP-HC15-15LB*-4T		2.5	76.4		37.6	26.5	15	1.0 to 2.7	26
VSP-HC15-15LB*-6T		4							
VSP-HC15-20LB*-4T		2.5	86.4		42.6	31.5	20	1.0 to 3.0	28
VSP-HC15-20LB*-6T		4							
VSP-HC15-25LB*-4T		2.5	96.9		47.6	37	25	1.0 to 3.0	31
VSP-HC15-25LB*-6T		4							
VSP-HC15-30LB*-4T		2.5	107.9		52.6	43	30	1.0 to 3.0	33
VSP-HC15-30LB*-6T		4							
VSP-HC15-40LB*-4T		2.5	129.9		62.6	55	40	1.0 to 3.0	37
VSP-HC15-40LB*-6T		4							
VSP-HC15-50LB*-4T		2.5	151.4		72.6	66.5	50	1.0 to 3.1	41
VSP-HC15-50LB*-6T		4							

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC20LB*-4T/6T

●VSP-HC20-□LB*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC20LB*-4T	20	2.5	57.1	20	29.7	20	9	0.9 to 2.7	21
VSP-HC20LB*-6T		4							
VSP-HC20-10LB*-4T		2.5	70.4		35	21.5	10	1.0 to 2.4	26
VSP-HC20-10LB*-6T		4							
VSP-HC20-15LB*-4T		2.5	80.4		40	26.5	15	1.0 to 2.7	28
VSP-HC20-15LB*-6T		4							
VSP-HC20-20LB*-4T		2.5	90.4		45	31.5	20	1.0 to 3.0	30
VSP-HC20-20LB*-6T		4							
VSP-HC20-25LB*-4T		2.5	100.9		50	37	25	1.0 to 3.0	32
VSP-HC20-25LB*-6T		4							
VSP-HC20-30LB*-4T		2.5	111.9		55	43	30	1.0 to 3.0	35
VSP-HC20-30LB*-6T		4							
VSP-HC20-40LB*-4T		2.5	133.9		65	55	40	1.0 to 3.0	39
VSP-HC20-40LB*-6T		4							
VSP-HC20-50LB*-4T		2.5	155.4		75	66.5	50	1.0 to 3.1	43
VSP-HC20-50LB*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

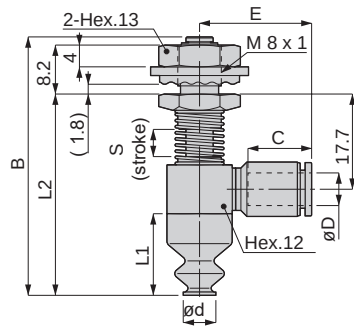
Flat

Suction mark
prevention

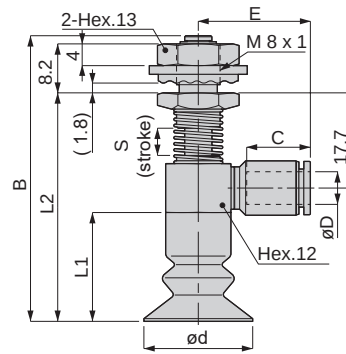
VSP-*LB* Series

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, push-in fitting)

●VSP-HD6 to 15LB*-2/4/6



●VSP-HD20LB*-2/4/6

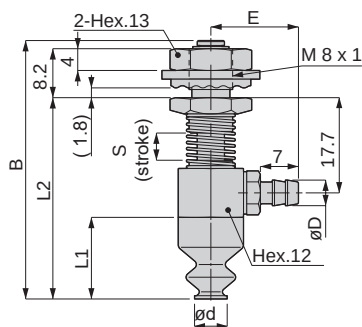


Unit: mm

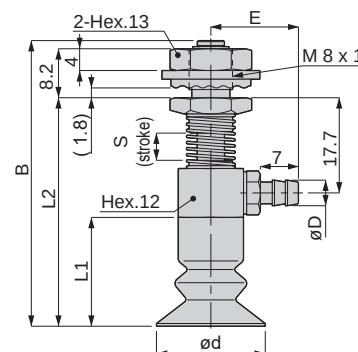
Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6LB*-2	6	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD6LB*-4		4				11.2	18.8			30
VSP-HD6LB*-6		6				11.9	20.6			31
VSP-HD8LB*-2	8	1.8	47.5	15	37.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD8LB*-4		4				11.2	18.8			30
VSP-HD8LB*-6		6				11.9	20.6			31
VSP-HD10LB*-2	10	1.8	48	15.5	37.7	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD10LB*-4		4				11.2	18.8			30
VSP-HD10LB*-6		6				11.9	20.6			31
VSP-HD15LB*-2	15	1.8	50	17.5	39.7	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HD15LB*-4		4				11.2	18.8			31
VSP-HD15LB*-6		6				11.9	20.6			32
VSP-HD20LB*-2	20	1.8	52.5	20	42.2	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HD20LB*-4		4				11.2	18.8			32
VSP-HD20LB*-6		6				11.9	20.6			33

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, barbed fitting)

●VSP-HD6 to 15LB*-4T/6T



●VSP-HD20LB*-4T/6T

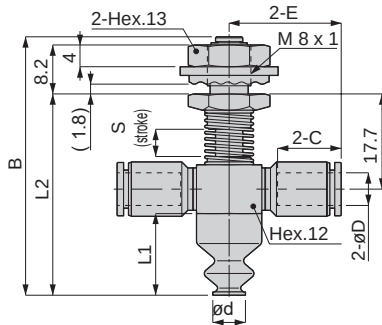


Unit: mm

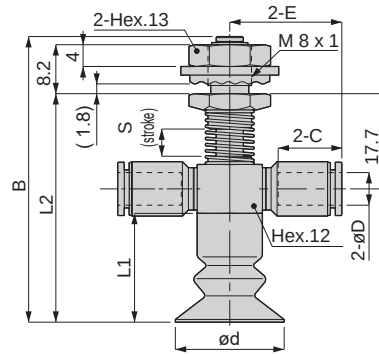
Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD6LB*-4T	6	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	30
VSP-HD6LB*-6T		4							
VSP-HD8LB*-4T	8	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	30
VSP-HD8LB*-6T		4							
VSP-HD10LB*-4T	10	2.5	48	15.5	37.7	15.9	5.2	1.6 to 2.9	30
VSP-HD10LB*-6T		4							
VSP-HD15LB*-4T	15	2.5	50	17.5	39.7	15.9	5.2	1.6 to 2.9	30
VSP-HD15LB*-6T		4							
VSP-HD20LB*-4T	20	2.5	52.5	20	42.2	15.9	5.2	1.6 to 2.9	32
VSP-HD20LB*-6T		4							

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW6 to 15LB*-2/4/6



●VSP-HDW20LB*-2/4/6

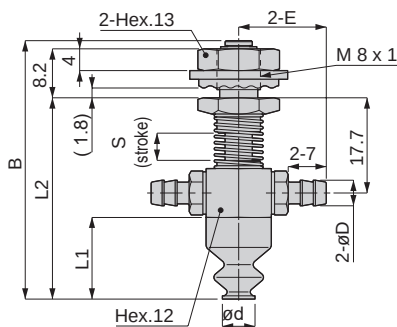


Unit: mm

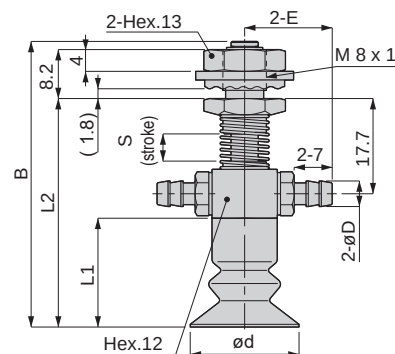
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6LB*-2	6	1.8	47.5	12.2	37.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW6LB*-4		4				11.2	18.8			30
VSP-HDW6LB*-6		6				11.9	20.6			31
VSP-HDW8LB*-2	8	1.8	47.5	12.2	37.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW8LB*-4		4				11.2	18.8			30
VSP-HDW8LB*-6		6				11.9	20.6			31
VSP-HDW10LB*-2	10	1.8	48	14	37.7	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HDW10LB*-4		4				11.2	18.8			30
VSP-HDW10LB*-6		6				11.9	20.6			31
VSP-HDW15LB*-2	15	1.8	50	14	39.7	8.4	14.7	5.2	1.6 to 2.9	30
VSP-HDW15LB*-4		4				11.2	18.8			31
VSP-HDW15LB*-6		6				11.9	20.6			32
VSP-HDW20LB*-2	20	1.8	52.5	15	42.2	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HDW20LB*-4		4				11.2	18.8			32
VSP-HDW20LB*-6		6				11.9	20.6			33

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW6 to 15LB*-4T/6T



●VSP-HDW20LB*-4T/6T



Unit: mm

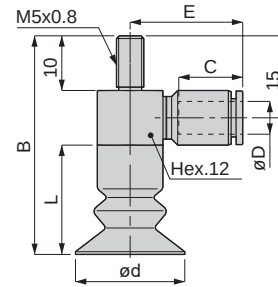
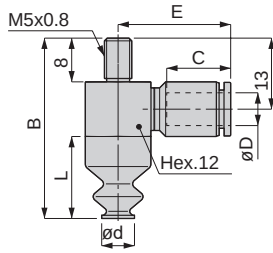
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW6LB*-4T	6	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	30
VSP-HDW6LB*-6T		4							
VSP-HDW8LB*-4T	8	2.5	47.5	15	37.2	15.9	5.2	1.6 to 2.9	30
VSP-HDW8LB*-6T		4							
VSP-HDW10LB*-4T	10	2.5	48	15.5	37.7	15.9	5.2	1.6 to 2.9	30
VSP-HDW10LB*-6T		4							
VSP-HDW15LB*-4T	15	2.5	50	17.5	39.7	15.9	5.2	1.6 to 2.9	30
VSP-HDW15LB*-6T		4							
VSP-HDW20LB*-4T	20	2.5	52.5	20	52.5	15.9	5.2	1.6 to 2.9	32
VSP-HDW20LB*-6T		4							

VSP-*LB* Series

Dimensions (low back fixed, vacuum outlet side VSP-HE, push-in fitting)

●VSP-HE6 to 15LB*-2/4/6

●VSP-HE20LB*-2/4/6



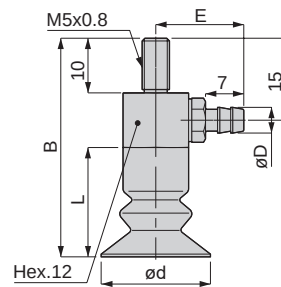
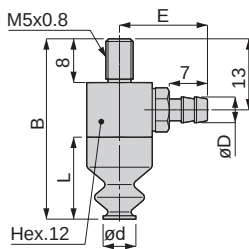
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE6LB*-2	6	1.8	33	15	8.4	14.7	15
VSP-HE6LB*-4		4			11.2	18.8	16
VSP-HE6LB*-6		6			11.9	20.6	17
VSP-HE8LB*-2	8	1.8	33	15	8.4	14.7	15
VSP-HE8LB*-4		4			11.2	18.8	16
VSP-HE8LB*-6		6			11.9	20.6	17
VSP-HE10LB*-2	10	1.8	33.5	15.5	8.4	14.7	15
VSP-HE10LB*-4		4			11.2	18.8	16
VSP-HE10LB*-6		6			11.9	20.6	17
VSP-HE15LB*-2	15	1.8	35.5	17.5	8.4	14.7	15
VSP-HE15LB*-4		4			11.2	18.8	16
VSP-HE15LB*-6		6			11.9	20.6	17
VSP-HE20LB*-2	20	1.8	40	20	8.4	14.7	17
VSP-HE20LB*-4		4			11.2	18.8	18
VSP-HE20LB*-6		6			11.9	20.6	19

Dimensions (low back fixed, vacuum outlet side VSP-HE, barbed fitting)

●VSP-HE6 to 15LB*-4T/6T

●VSP-HE20LB*-4T/6T

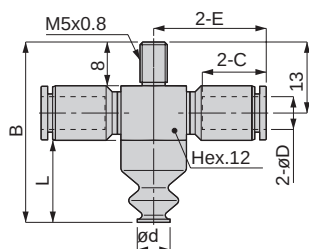


Unit: mm

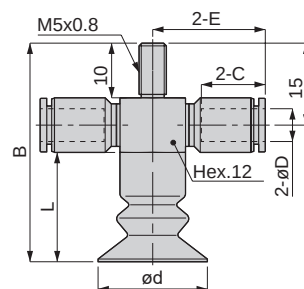
Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HE6LB*-4T	6	2.5	33	15	15.9	15
VSP-HE6LB*-6T		4				
VSP-HE8LB*-4T	8	2.5	33	15	15.9	15
VSP-HE8LB*-6T		4				
VSP-HE10LB*-4T	10	2.5	33.5	15.5	15.9	15
VSP-HE10LB*-6T		4				
VSP-HE15LB*-4T	15	2.5	35.5	17.5	15.9	16
VSP-HE15LB*-6T		4				
VSP-HE20LB*-4T	20	2.5	40	20	15.9	18
VSP-HE20LB*-6T		4				

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, push-in fitting)

●VSP-HEW6 to 15LB*-2/4/6



●VSP-HEW20LB*-2/4/6

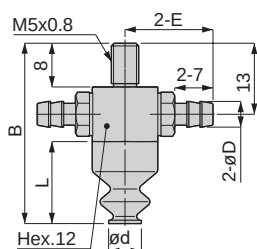


Unit: mm

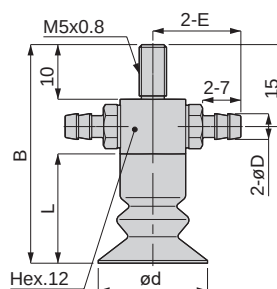
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW6LB*-2	6	1.8	33	15	8.4	14.7	15
VSP-HEW6LB*-4		4			11.2	18.8	16
VSP-HEW6LB*-6		6			11.9	20.6	17
VSP-HEW8LB*-2	8	1.8	33	15	8.4	14.7	15
VSP-HEW8LB*-4		4			11.2	18.8	16
VSP-HEW8LB*-6		6			11.9	20.6	17
VSP-HEW10LB*-2	10	1.8	33.5	15.5	8.4	14.7	15
VSP-HEW10LB*-4		4			11.2	18.8	16
VSP-HEW10LB*-6		6			11.9	20.6	17
VSP-HEW15LB*-2	15	1.8	35.5	17.5	8.4	14.7	15
VSP-HEW15LB*-4		4			11.2	18.8	16
VSP-HEW15LB*-6		6			11.9	20.6	17
VSP-HEW20LB*-2	20	1.8	40	20	8.4	14.7	17
VSP-HEW20LB*-4		4			11.2	18.8	18
VSP-HEW20LB*-6		6			11.9	20.6	19

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW6 to 15LB*-4T/6T



●VSP-HEW20LB*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW6LB*-4T	6	2.5	33	15	15.9	15
VSP-HEW6LB*-6T		4				
VSP-HEW8LB*-4T	8	2.5	33	15	15.9	15
VSP-HEW8LB*-6T		4				
VSP-HEW10LB*-4T	10	2.5	33.5	15.5	15.9	15
VSP-HEW10LB*-6T		4				
VSP-HEW15LB*-4T	15	2.5	35.5	17.5	15.9	16
VSP-HEW15LB*-6T		4				
VSP-HEW20LB*-4T	20	2.5	40	20	15.9	18
VSP-HEW20LB*-6T		4				

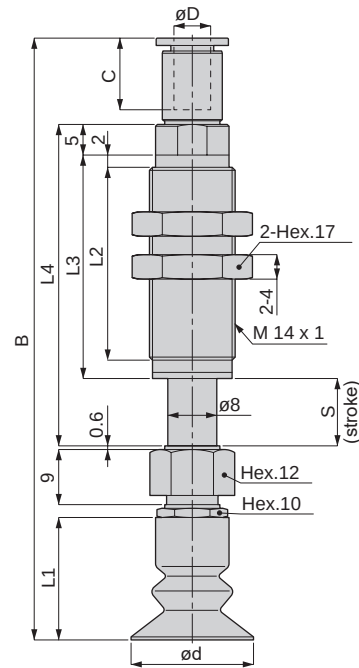
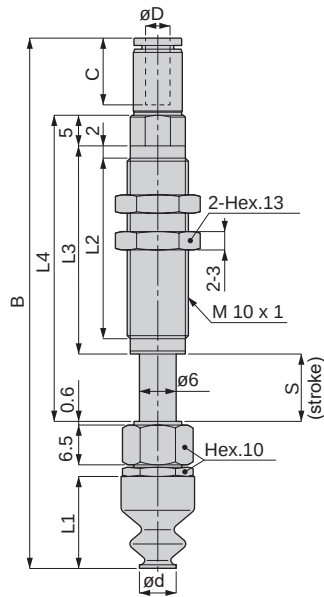
VSP-*LB* Series

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC6 to 15-□LB*-4

●VSP-LFC20-□LB*-4

Suction pad
General/Deep/
Compact
Sponge
Bellows

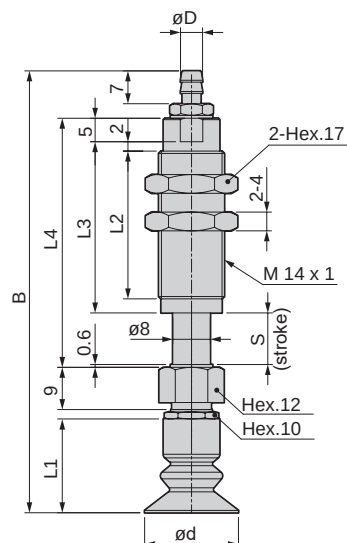
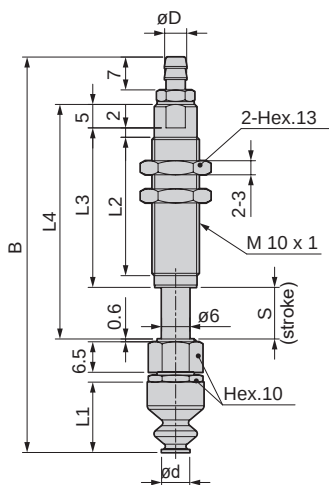


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC6-2LB*-4	6	4	71.2	15	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC6-5LB*-4			77.2		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC6-10LB*-4			87.2		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC6-15LB*-4			97.2		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC6-20LB*-4			107.2		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC8-2LB*-4	8	4	71.2	15	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC8-5LB*-4			77.2		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC8-10LB*-4			87.2		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC8-15LB*-4			97.2		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC8-20LB*-4			107.2		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC10-2LB*-4	10	4	71.7	15.5	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC10-5LB*-4			77.7		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC10-10LB*-4			87.7		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC10-15LB*-4			97.7		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC10-20LB*-4			107.7		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC15-2LB*-4	15	4	73.7	17.5	21.5	26	34	11.2	2	1.3 to 1.8	30
VSP-LFC15-5LB*-4			79.7		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	32
VSP-LFC15-10LB*-4			89.7		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	34
VSP-LFC15-15LB*-4			99.7		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	36
VSP-LFC15-20LB*-4			109.7		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	38
VSP-LFC20-5LB*-4	20	4	87.1	20	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
VSP-LFC20-5LB*-6		6	88.4					11.9			58
VSP-LFC20-10LB*-4		4	97.1					11.2			59
VSP-LFC20-10LB*-6		6	98.4					11.9			60
VSP-LFC20-15LB*-4		4	107.1		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
VSP-LFC20-15LB*-6		6	108.4					11.9			63
VSP-LFC20-20LB*-4		4	117.1					11.2	20	4.5 to 14.9 [1.13 to 3.73]	65
VSP-LFC20-20LB*-6		6	118.4					11.9			66

*1: Values in [] are for low load.

●VSP-LFC20-□LB*-4T/6T



Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC6-2LB*-4T	6	2.5	68.3	15	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC6-2LB*-6T		4								
VSP-LFC6-5LB*-4T		2.5	74.3		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC6-5LB*-6T		4								
VSP-LFC6-10LB*-4T		2.5	84.3		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC6-10LB*-6T		4								
VSP-LFC6-15LB*-4T		2.5	94.3		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC6-15LB*-6T		4								
VSP-LFC6-20LB*-4T		2.5	104.3		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC6-20LB*-6T	4									
VSP-LFC8-2LB*-4T	8	2.5	68.3	15	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC8-2LB*-6T		4								
VSP-LFC8-5LB*-4T		2.5	74.3		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC8-5LB*-6T		4								
VSP-LFC8-10LB*-4T		2.5	84.3		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC8-10LB*-6T		4								
VSP-LFC8-15LB*-4T		2.5	94.3		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC8-15LB*-6T		4								
VSP-LFC8-20LB*-4T		2.5	104.3		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC8-20LB*-6T	4									
VSP-LFC10-2LB*-4T	10	2.5	68.8	15.5	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC10-2LB*-6T		4								
VSP-LFC10-5LB*-4T		2.5	74.8		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC10-5LB*-6T		4								
VSP-LFC10-10LB*-4T		2.5	84.8		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC10-10LB*-6T		4								
VSP-LFC10-15LB*-4T		2.5	94.8		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC10-15LB*-6T		4								
VSP-LFC10-20LB*-4T		2.5	104.8		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC10-20LB*-6T	4									
VSP-LFC15-2LB*-4T	15	2.5	70.8	17.5	21.5	26	34	2	1.3 to 1.8	28
VSP-LFC15-2LB*-6T		4								
VSP-LFC15-5LB*-4T		2.5	76.8		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC15-5LB*-6T		4								
VSP-LFC15-10LB*-4T		2.5	86.8		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC15-10LB*-6T		4								
VSP-LFC15-15LB*-4T		2.5	96.8		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC15-15LB*-6T		4								
VSP-LFC15-20LB*-4T		2.5	106.8		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC15-20LB*-6T	4									
VSP-LFC20-5LB*-4T	20	2.5	84.2	20	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	52
VSP-LFC20-5LB*-6T		4								
VSP-LFC20-10LB*-4T		2.5	94.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	54
VSP-LFC20-10LB*-6T		4								
VSP-LFC20-15LB*-4T		2.5	104.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	57
VSP-LFC20-15LB*-6T		4								
VSP-LFC20-20LB*-4T	2.5	114.2	41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	60		
VSP-LFC20-20LB*-6T	4									

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VSP-*LB* Series

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, push-in fitting)

●VSP-LFD6 to 15-□LB*-4

●VSP-LFD20-□LB*-4/6

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

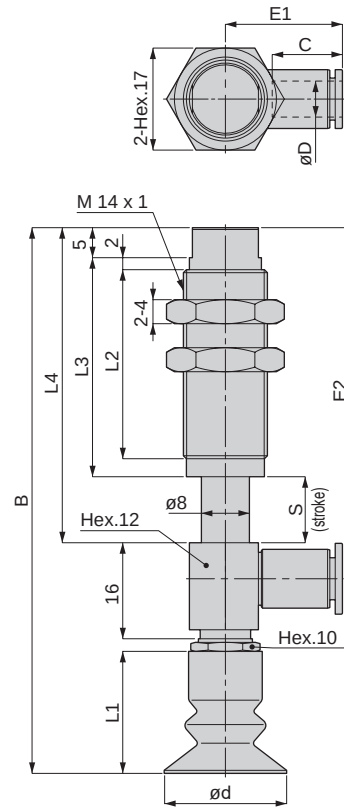
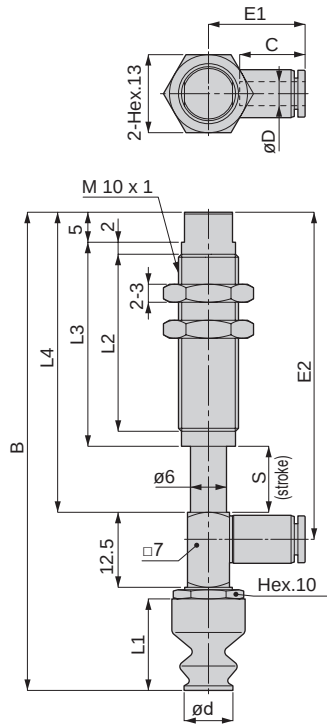
Soft bellows

Anti-slip

Thin object

Flat

Suction mark prevention



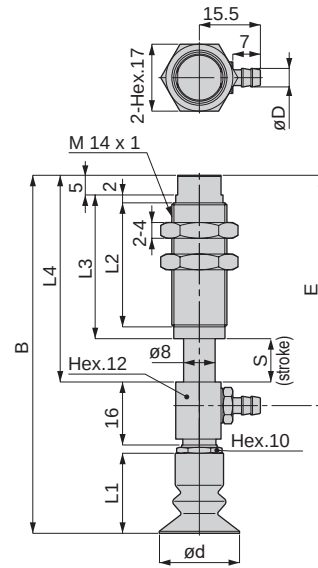
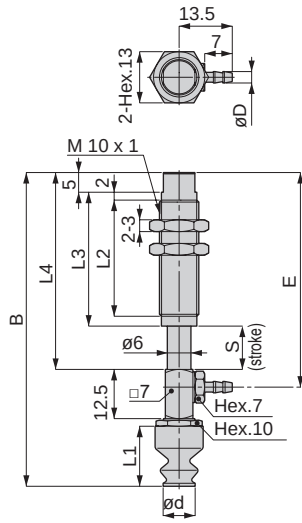
Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD6-5LB*-4	6	4	69.6	15	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	28
VSP-LFD6-10LB*-4			79.6		29.5	34	50			54.5	10	1.3 to 3.3	30
VSP-LFD6-15LB*-4			89.6		34.5	39	60			64.5	15	1.3 to 4.2	32
VSP-LFD6-20LB*-4			99.6		39.5	44	70			74.5	20	1.3 to 5.1	34
VSP-LFD8-5LB*-4	8	4	69.6	15	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	28
VSP-LFD8-10LB*-4			79.6		29.5	34	50			54.5	10	1.3 to 3.3	30
VSP-LFD8-15LB*-4			89.6		34.5	39	60			64.5	15	1.3 to 4.2	32
VSP-LFD8-20LB*-4			99.6		39.5	44	70			74.5	20	1.3 to 5.1	34
VSP-LFD10-5LB*-4	10	4	70.1	15.5	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	28
VSP-LFD10-10LB*-4			80.1		29.5	34	50			54.5	10	1.3 to 3.3	30
VSP-LFD10-15LB*-4			90.1		34.5	39	60			64.5	15	1.3 to 4.2	32
VSP-LFD10-20LB*-4			100.1		39.5	44	70			74.5	20	1.3 to 5.1	34
VSP-LFD15-5LB*-4	15	4	72.1	17.5	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	28
VSP-LFD15-10LB*-4			82.1		29.5	34	50			54.5	10	1.3 to 3.3	30
VSP-LFD15-15LB*-4			92.1		34.5	39	60			64.5	15	1.3 to 4.2	32
VSP-LFD15-20LB*-4			102.1		39.5	44	70			74.5	20	1.3 to 5.1	34
VSP-LFD20-5LB*-4	20	4	80.5	20	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	58
VSP-LFD20-5LB*-6		6						11.9	19.7				59
VSP-LFD20-10LB*-4		4	90.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	62
VSP-LFD20-10LB*-6		6						11.9	19.7				63
VSP-LFD20-15LB*-4		4	100.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	66
VSP-LFD20-15LB*-6		6						11.9	19.7				67
VSP-LFD20-20LB*-4		4	110.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	70
VSP-LFD20-20LB*-6		6						11.9	19.7				71

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD6 to 15-□LB*-4T/6T

●VSP-LFD20-□LB*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD6-5LB*-4T	6	2.5	69.6	15	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD6-5LB*-6T		4									
VSP-LFD6-10LB*-4T		2.5	79.6		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD6-10LB*-6T		4									
VSP-LFD6-15LB*-4T		2.5	89.6		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD6-15LB*-6T		4									
VSP-LFD6-20LB*-4T		2.5	99.6		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD6-20LB*-6T		4									
VSP-LFD8-5LB*-4T	8	2.5	69.6	15	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD8-5LB*-6T		4									
VSP-LFD8-10LB*-4T		2.5	79.6		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD8-10LB*-6T		4									
VSP-LFD8-15LB*-4T		2.5	89.6		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD8-15LB*-6T		4									
VSP-LFD8-20LB*-4T		2.5	99.6		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD8-20LB*-6T		4									
VSP-LFD10-5LB*-4T	10	2.5	70.1	15.5	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD10-5LB*-6T		4									
VSP-LFD10-10LB*-4T		2.5	80.1		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD10-10LB*-6T		4									
VSP-LFD10-15LB*-4T		2.5	90.1		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD10-15LB*-6T		4									
VSP-LFD10-20LB*-4T		2.5	100.1		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD10-20LB*-6T		4									
VSP-LFD15-5LB*-4T	15	2.5	72.1	17.5	24.5	29	40	44.5	5	1.3 to 2.4	27
VSP-LFD15-5LB*-6T		4									
VSP-LFD15-10LB*-4T		2.5	82.1		29.5	34	50	54.5	10	1.3 to 3.3	29
VSP-LFD15-10LB*-6T		4									
VSP-LFD15-15LB*-4T		2.5	92.1		34.5	39	60	64.5	15	1.3 to 4.2	31
VSP-LFD15-15LB*-6T		4									
VSP-LFD15-20LB*-4T		2.5	102.1		39.5	44	70	74.5	20	1.3 to 5.1	33
VSP-LFD15-20LB*-6T		4									
VSP-LFD20-5LB*-4T	20	2.5	80.5	20	26.5	31.5	42.5	48.5	5	4.5 to 6.5	54
VSP-LFD20-5LB*-6T		4									
VSP-LFD20-10LB*-4T		2.5	90.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	57
VSP-LFD20-10LB*-6T		4									
VSP-LFD20-15LB*-4T		2.5	100.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	61
VSP-LFD20-15LB*-6T		4									
VSP-LFD20-20LB*-4T		2.5	110.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	65
VSP-LFD20-20LB*-6T		4									

Suction pad

General/Deep/Compact

Sponge

Belows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

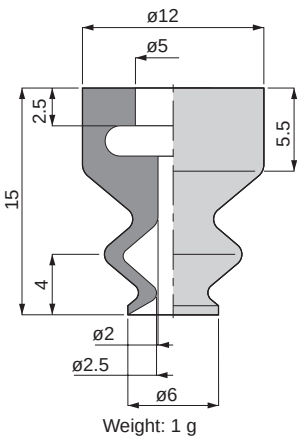
Flat

Suction mark prevention

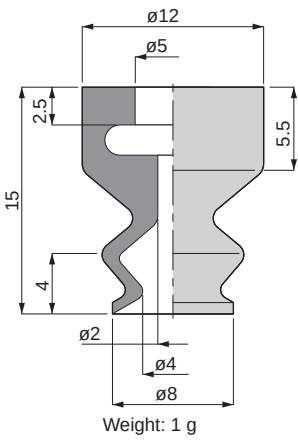
VSPG-*LB* Series

Dimensions: pad only

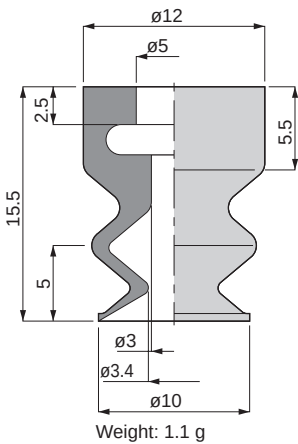
●VSPG-6LB*



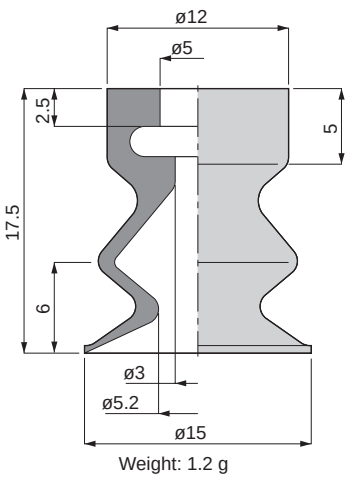
●VSPG-8LB*



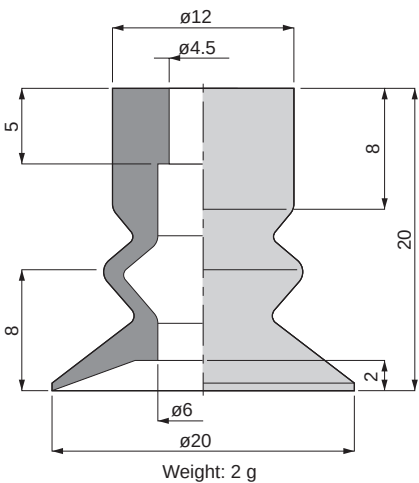
●VSPG-10LB*



●VSPG-15LB*



●VSPG-20LB*



Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

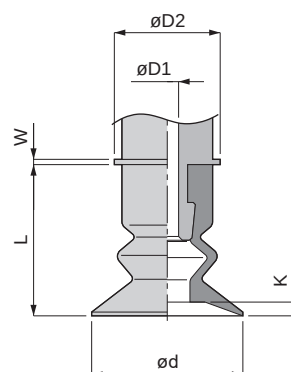
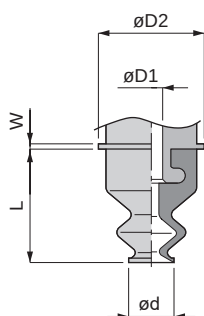
Flat

Suction mark
prevention

Detailed view of pad and holder connection

●VSPG-6 to 15LB*A

●VSPG-20LB*A



Unit: mm

Model No.	Pad diameter ϕd	L	$\phi D1$	$\phi D2$	W
VSPG-6LB*	6	15	3	14	0.7
VSPG-8LB*	8	15	3	14	0.7
VSPG-10LB*	10	15.5	3	14	0.7
VSPG-15LB*	15	17.5	3	14	0.7
VSPG-20LB*	20	20	3	14	0.7

Note: $\phi D2$ and W dimensions in the dimensions table are only for the VPHC type.

Safety precautions



WARNING

■ Since soft bellows type pads may adhere together due to working conditions and material characteristics, confirm performance with an actual device.

In addition, since stickiness may increase due to the operating environment and pad wear, review as necessary the pad shape, material, quantity, etc.



CAUTION

■ The VPHC type holder has no conductivity. When using a vacuum pad of conductive material, take measures to let electricity pass directly from the pad rubber.

■ Use the soft bellows so that they do not over-compress. If it is compressed too much, the bellows part may wear quickly, or cracks in the lip part may occur, or deformation due to strain may cause suction failure.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention



Suction pad, anti-slip type

VSP-*K* Series

Suction pad with anti-slip structure for gripping workpiece on suction surface of pad



Ideal for transporting workpieces covered with an oil film such as pressed parts

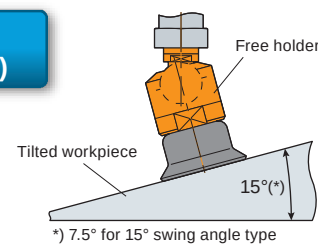
A wide range of holder variations

Shape	16types	Pipingconnection	5types	Stroke	11types
- Standard 5 types - Compact 4 types - Low dust generation 2 types	- Lightweight 3 types - Low height 2 types	- Push-in fitting (ø1.8 to ø6) 3 types - Barbed fitting (ø4, ø6) 2 types		2 mm to 50 mm (Depends on pad diameter and holder)	

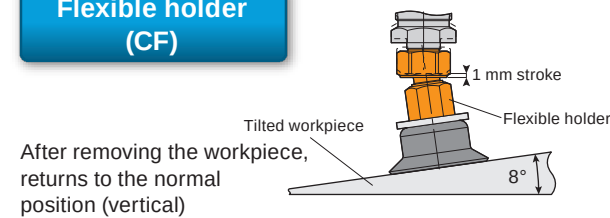
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding.

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle.

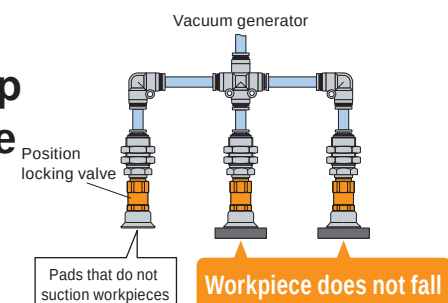
Free holder
(F1:30°, F2:15°)



Flexible holder
(CF)



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



VSP-*K* Series

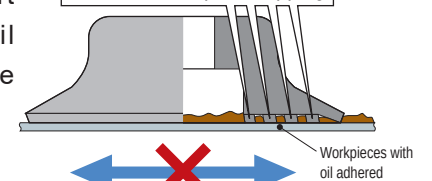
Pad shape



Oil resistance

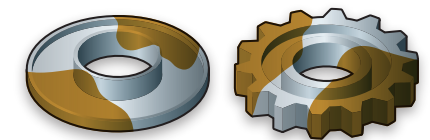
Fluoro rubber and oil-resistant nitrile rubber excellent in durability in oil environments are available.

Anti-slip structure
Firmly grips the workpiece
Prevents workpiece slipping



Recommended workpiece

Press parts with oil adhered, etc.



Pad diameter

5 types 10 20 30 40 50

Pad material

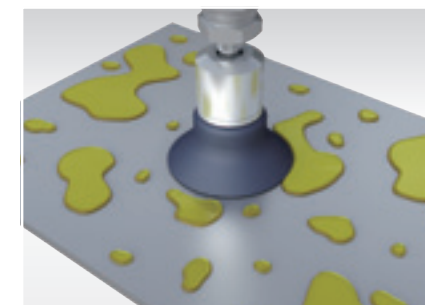
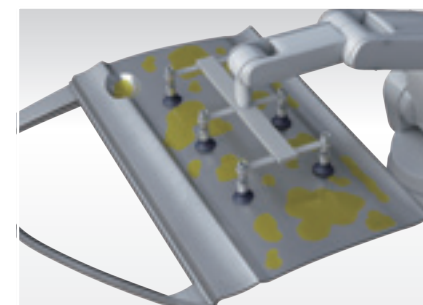
5 types Oil-resistant NBR silicone Urethane Fluorine Conductive NBR (low resistance)

* Silicone (S) is compatible with the Food Sanitation Act. (holder is not supported/suction pad is compatible only with workpiece contact part)

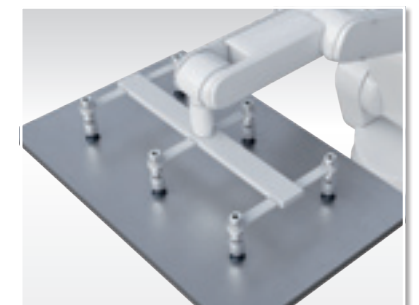
Solution examples

Slippery parts covered with an oil film

Workpieces with oil adhered such as press parts or automobile parts. The pad material can be selected according to the characteristics of the workpiece.



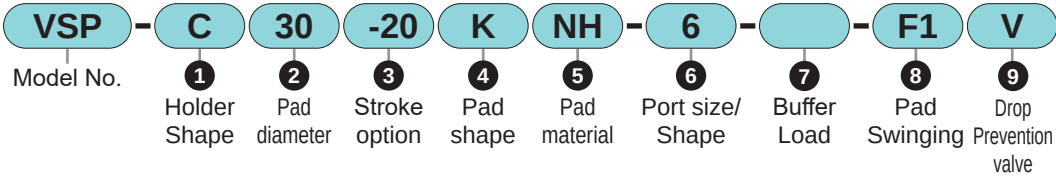
Conveying heavy steel plates
press, laser, etc.



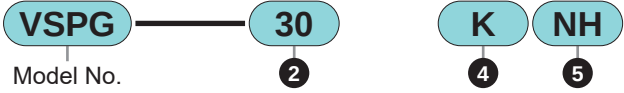
How to order

●Anti-slip

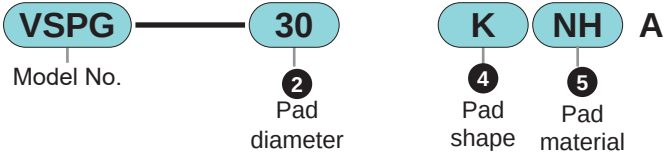
Suction pad



Pad rubber only



Pad rubber + Set with fixing screw



1 Holder type

With/without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact		MA	
	Standard	Lateral direction	B	
	Compact		MB	
	Low height	Both lateral directions	HEW	
Buffer type	Standard	Upward direction	C	
	Compact		MC	
	Low dust generation		LFC	
	Light weight	Lateral direction	HC	
	Standard		D	
	Compact		MD	
	Low dust generation	Both lateral directions	LFD	
	Standard		HD	
	Light weight		HDW	
	Standard	Direct mounting	F	

4 Pad shape

Code	Description
K	Anti-slip

2 Pad diameter

Code	Description
10	ø10
20	ø20
30	ø30
40	ø40
50	ø50

3 Stroke option

Description	Holder type					Code
	C	D	HC	LFC	LFD	
Specified stroke or without buffer	●	●				Blank
Stroke 2 mm				●		-2
Stroke 5 mm					●	-5
Stroke 10 mm	●	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	●	-20
Stroke 25 mm			●			-25
Stroke 30 mm	●	●	●			-30
Stroke 40 mm	●	●	●			-40
Stroke 50 mm	●	●	●			-50

*1: 1 Other than C, D, HC, LFC, LFD, 3 is blank.
*2: 3 For blank designated strokes, check the stroke dimensions with the O.D. dimensions.
*3: 2 For 10, 3 -2 can be selected.

5 Pad material

Code	Description
NH	Oil-resistant NBR
S	Silicone rubber
U	Urethane rubber
F	Fluoro rubber
NE	Conductive NBR (low resistance)

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

6 Port size/shape

Description	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW	Code	
(●: When F)																Blank	
ø1.8 push-in fitting						●	●	●			●	●	●	●	●	2	
ø4 push-in fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4	
ø6 push-in fitting	●	●	●	●		●		●	●	●	●	●	●	●	●	6	
ø4 Push-in fitting, without spring cover			●	●												4C	
ø6 Push-in fitting, without spring cover			●	●												6C	
ø4 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4T	
ø6 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6T	
ø4 barbed fitting, without spring cover			●	●												4TC	
ø6 Barbed fitting, without spring cover			●	●												6TC	

*1: 1 C, D 3 -20 up-For 50, 6 4C, 6C, 4TC, 6TC can be selected.
*2: 2 The port size and shape that can be selected differ depending on the pad diameter. Check with the combination table below.

7 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1: 1 With the exception of LFC, 7 is blank.
*2: 3 For -2, 7 is blank.

8 Swiveling pad

Code	Description	
Blank	None	
F1	With free holder swing angle 30°	
F2	With free holder swing angle 15°	
CF	With flexible holder angle 8°	

9 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

Holder shape - pad diameter - pad shape - port size/shape combinations

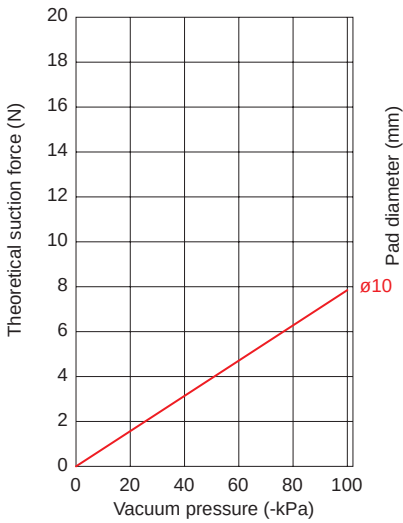
Holder type	Pad diameter	Push-in fitting				Barbed fitting			
		ø4		ø6		ø4		ø6	
		4	4C	6	6C	4T	4TC	6T	6TC
A	ø10			●				●	
	ø20 to ø50	●		●		●		●	
B	All sizes	●		●		●		●	
C	All sizes	●	●	●	●	●	●	●	●
D	All sizes	●	●	●	●	●	●	●	●

Holder type	Pad diameter	Thread
		M14
		Blank
F	All sizes	●

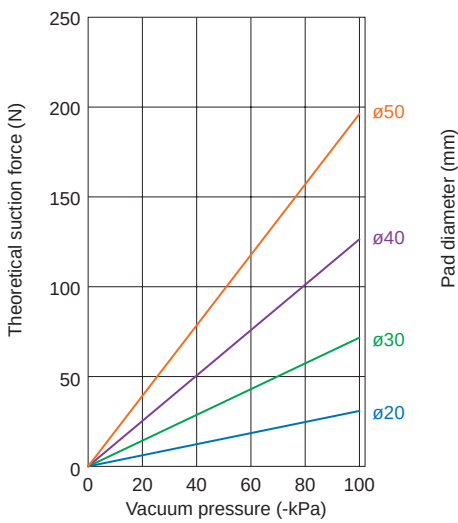
Holder type	Pad diameter	Push-in fitting			Barbed fitting	
		ø1.8	ø4	ø6	ø4	ø6
		2	4	6	4T	6T
MA	ø10		●		●	
	ø20 to ø50		●		●	●
MB	All sizes	●	●	●	●	●
MC	All sizes	●	●		●	●
MD	All sizes	●	●	●	●	●
LFC	ø10		●		●	●
	ø20 to ø50		●	●	●	●
LFD	ø10		●		●	●
	ø20 to ø50		●	●	●	●
HC	All sizes	●	●	●	●	●
HD	All sizes	●	●	●	●	●
HDW	All sizes	●	●	●	●	●
HE	All sizes	●	●	●	●	●
HEW	All sizes	●	●	●	●	●

Theoretical suction force

● Pad diameter: ø10 mm



● Pad diameter: ø20 mm to ø50 mm



* Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

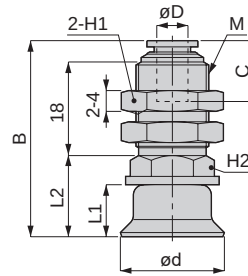
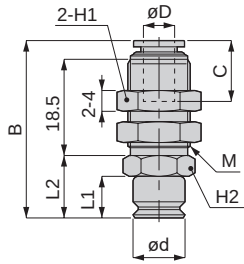
Flat

Suction mark
prevention

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

●VSP-A10K*-6

●VSP-A20 to 50K*-4/6



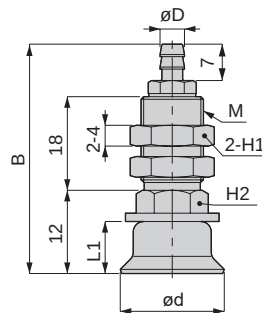
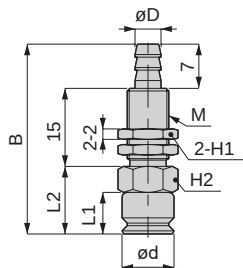
Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10K*-6	10	6	M 12 x 1	34.3	8	12	11.9	14	12	22
VSP-A20K*-4	20	4	M 12 x 1	46.9	10	16	11.2	14	12	30
VSP-A20K*-6		6	M 14 x 1	37.9			11.9	17	14	36
VSP-A30K*-4	30	4	M 12 x 1	48.9	12	18	11.2	14	12	34
VSP-A30K*-6		6	M 14 x 1	39.9			11.9	17	14	40
VSP-A40K*-4	40	4	M 12 x 1	52.9	16	22	11.2	14	12	43
VSP-A40K*-6		6	M 14 x 1	43.9			11.9	17	14	49
VSP-A50K*-4	50	4	M 12 x 1	53.9	17	23	11.2	14	12	49
VSP-A50K*-6		6	M 14 x 1	44.9			11.9	17	14	55

Dimensions (fixed, vacuum outlet top VSP-A, barbed fitting)

●VSP-A10K*-6T

●VSP-A20 to 50K*-4T/6T



Unit: mm

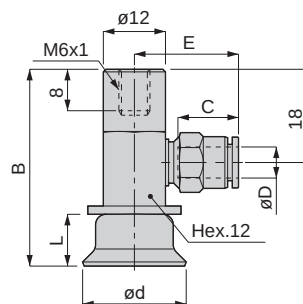
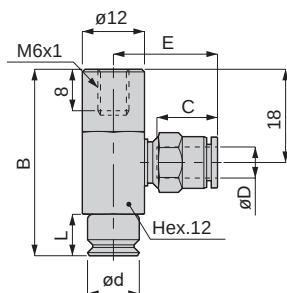
Model No.	Pad diameter Ød	Bore size ØD	Mounting screw M	B	L1	L2	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10K*-6T	10	4	M 8 x 0.75	35	8	12	10	10	12
VSP-A20K*-4T	20	2.5	M 12 x 1	44	10	16	14	12	30
VSP-A20K*-6T		4							
VSP-A30K*-4T	30	2.5	M 12 x 1	46	12	18	14	12	34
VSP-A30K*-6T		4							
VSP-A40K*-4T	40	2.5	M 12 x 1	50	16	22	14	12	43
VSP-A40K*-6T		4							
VSP-A50K*-4T	50	2.5	M 12 x 1	51	17	23	14	12	49
VSP-A50K*-6T		4							

VSP-*K* Series

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

●VSP-B10K*-4/6

●VSP-B20 to 50K*-4/6



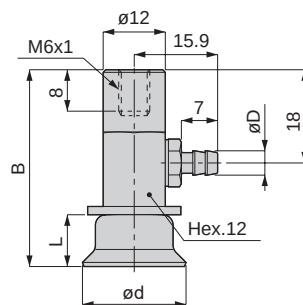
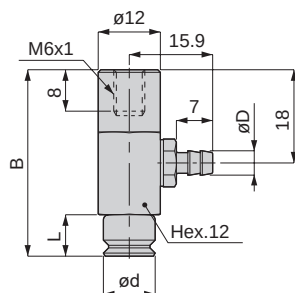
Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	E	Weight (g)
VSP-B10K*-4	10	4	36	8	11.2	18.8	30
VSP-B10K*-6		6			11.9	20.1	31
VSP-B20K*-4	20	4	38	10	11.2	18.8	33
VSP-B20K*-6		6			11.9	20.1	34
VSP-B30K*-4	30	4	40	12	11.2	18.8	37
VSP-B30K*-6		6			11.9	20.1	38
VSP-B40K*-4	40	4	44	16	11.2	18.8	46
VSP-B40K*-6		6			11.9	20.1	47
VSP-B50K*-4	50	4	45	17	11.2	18.8	52
VSP-B50K*-6		6			11.9	20.1	53

Dimensions (fixed, vacuum outlet side VSP-B, barbed fitting)

●VSP-B10K*-4T/6T

●VSP-B20 to 50K*-4T/6T



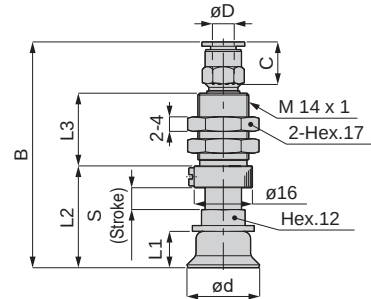
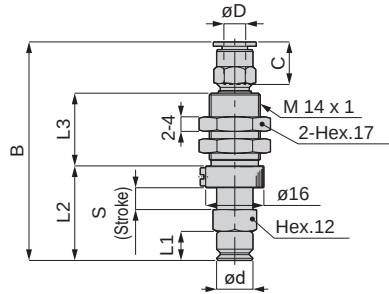
Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Weight (g)
VSP-B10K*-4T	10	2.5	36	8	29
VSP-B10K*-6T		4			
VSP-B20K*-4T	20	2.5	38	10	32
VSP-B20K*-6T		4			
VSP-B30K*-4T	30	2.5	40	12	36
VSP-B30K*-6T		4			
VSP-B40K*-4T	40	2.5	44	16	45
VSP-B40K*-6T		4			
VSP-B50K*-4T	50	2.5	45	17	51
VSP-B50K*-6T		4			

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C10K*-4/6
- VSP-C10-□K*-4/6

- VSP-C20 to 50K*-4/6
- VSP-C20 to 50-□K*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C10K*-4	10	4	59	8	26	20	11.2	6	4.0 to 7.1	35
VSP-C10K*-6		6	60.3				11.9			36
VSP-C10-10K*-4		4	63.5		30.5	20	11.2	10	2.0 to 5.2	36
VSP-C10-10K*-6		6	64.8				11.9			37
VSP-C10-15K*-4		4	73.5		35.5	25	11.2	15	2.0 to 5.9	42
VSP-C10-15K*-6		6	74.8				11.9			43
VSP-C10-20K*-4		4	89.5		34	34	11.2	20	1.1 to 4.8	49
VSP-C10-20K*-6		6	90.8				11.9			50
VSP-C20K*-4	20	4	61	10	28	20	11.2	6	7.0 to 12.6	39
VSP-C20K*-6		6	62.3				11.9			40
VSP-C20-10K*-4		4	67		34	20	11.2	10	3.3 to 10.0	41
VSP-C20-10K*-6		6	68.3				11.9			42
VSP-C20-15K*-4		4	77		39	25	11.2	15	3.3 to 10.4	46
VSP-C20-15K*-6		6	78.3				11.9			47
VSP-C20-20K*-4		4	93		46	34	11.2	20	2.0 to 8.7	53
VSP-C20-20K*-6		6	94.3				11.9			54
VSP-C30K*-4	30	4	63	12	30	20	11.2	6	7.0 to 12.6	43
VSP-C30K*-6		6	64.3				11.9			44
VSP-C30-10K*-4		4	69		36	20	11.2	10	3.3 to 10.0	45
VSP-C30-10K*-6		6	70.3				11.9			46
VSP-C30-15K*-4		4	79		41	25	11.2	15	3.3 to 10.4	50
VSP-C30-15K*-6		6	80.3				11.9			51
VSP-C30-20K*-4		4	95		48	34	11.2	20	2.0 to 8.7	57
VSP-C30-20K*-6		6	96.3				11.9			58
VSP-C40K*-4	40	4	67	16	34	20	11.2	6	7.0 to 12.6	51
VSP-C40K*-6		6	68.3				11.9			52
VSP-C40-10K*-4		4	73		40	20	11.2	10	3.3 to 10.0	54
VSP-C40-10K*-6		6	74.3				11.9			55
VSP-C40-15K*-4		4	83		45	25	11.2	15	3.3 to 10.4	59
VSP-C40-15K*-6		6	84.3				11.9			60
VSP-C40-20K*-4		4	99		52	34	11.2	20	2.0 to 8.7	65
VSP-C40-20K*-6		6	100.3				11.9			66
VSP-C50K*-4	50	4	68	17	35	20	11.2	6	7.0 to 12.6	58
VSP-C50K*-6		6	69.3				11.9			59
VSP-C50-10K*-4		4	74		41	20	11.2	10	3.3 to 10.0	60
VSP-C50-10K*-6		6	75.3				11.9			61
VSP-C50-15K*-4		4	84		46	25	11.2	15	3.3 to 10.4	65
VSP-C50-15K*-6		6	85.3				11.9			66
VSP-C50-20K*-4		4	100		53	34	11.2	20	2.0 to 8.7	72
VSP-C50-20K*-6		6	101.3				11.9			73

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

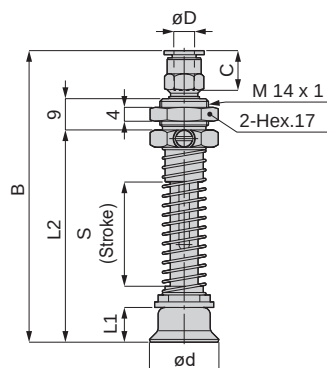
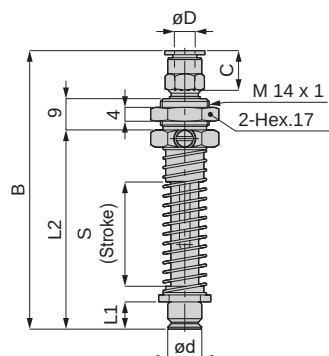
Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C10-□K*-4C/6C

●VSP-C20 to 50-□K*-4C/6C



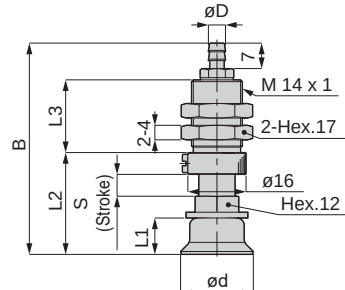
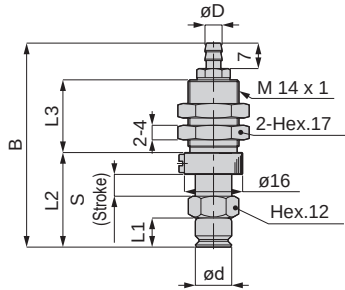
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C10-20K*-4C	10	4	66.5	8	44.5	11.2	20	1.5 to 4.9	44
	VSP-C10-20K*-6C		6	67.8			11.9			45
Sponge	VSP-C10-30K*-4C		4	79.5		57.5	11.2	30	1.1 to 4.8	49
	VSP-C10-30K*-6C		6	80.8			11.9			50
Bellows	VSP-C10-40K*-4C		4	92.5		70.5	11.2	40	1.0 to 4.5	54
	VSP-C10-40K*-6C		6	93.8			11.9			55
Multi-stage bellows	VSP-C10-50K*-4C		4	105.5		83.5	11.2	50	0.9 to 4.5	59
	VSP-C10-50K*-6C		6	106.8			11.9			60
Oval	VSP-C20-20K*-4C	20	4	70	10	48	11.2	20	1.5 to 4.9	49
	VSP-C20-20K*-6C		6	71.3			11.9			50
Soft bellows	VSP-C20-30K*-4C		4	83		61	11.2	30	1.1 to 4.8	54
	VSP-C20-30K*-6C		6	84.3			11.9			55
Anti-slip	VSP-C20-40K*-4C		4	96		74	11.2	40	1.0 to 4.5	59
	VSP-C20-40K*-6C		6	97.3			11.9			60
Thin object	VSP-C20-50K*-4C		4	109		87	11.2	50	0.9 to 4.5	64
	VSP-C20-50K*-6C		6	110.3			11.9			65
Flat	VSP-C30-20K*-4C	30	4	72	12	50	11.2	20	1.5 to 4.9	53
	VSP-C30-20K*-6C		6	73.3			11.9			54
Suction mark prevention	VSP-C30-30K*-4C		4	85		63	11.2	30	1.1 to 4.8	58
	VSP-C30-30K*-6C		6	86.3			11.9			59
	VSP-C30-40K*-4C		4	98		76	11.2	40	1.0 to 4.5	63
	VSP-C30-40K*-6C		6	99.3			11.9			64
	VSP-C30-50K*-4C		4	111		89	11.2	50	0.9 to 4.5	68
	VSP-C30-50K*-6C		6	112.3			11.9			69
	VSP-C40-20K*-4C	40	4	76	16	54	11.2	20	1.5 to 4.9	61
	VSP-C40-20K*-6C		6	77.3			11.9			62
	VSP-C40-30K*-4C		4	89		67	11.2	30	1.1 to 4.8	66
	VSP-C40-30K*-6C		6	90.3			11.9			67
	VSP-C40-40K*-4C		4	102		80	11.2	40	1.0 to 4.5	71
	VSP-C40-40K*-6C		6	103.3			11.9			72
	VSP-C40-50K*-4C		4	115		93	11.2	50	0.9 to 4.5	77
	VSP-C40-50K*-6C		6	116.3			11.9			78
	VSP-C50-20K*-4C	50	4	77	17	55	11.2	20	1.5 to 4.9	68
	VSP-C50-20K*-6C		6	78.3			11.9			69
	VSP-C50-30K*-4C		4	90		68	11.2	30	1.1 to 4.8	73
	VSP-C50-30K*-6C		6	91.3			11.9			74
	VSP-C50-40K*-4C		4	103		81	11.2	40	1.0 to 4.5	78
	VSP-C50-40K*-6C		6	104.3			11.9			79
	VSP-C50-50K*-4C		4	116		94	11.2	50	0.9 to 4.5	83
	VSP-C50-50K*-6C		6	117.3			11.9			84

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

- VSP-C10K*-4T/6T
- VSP-C10-□K*-4T/6T

- VSP-C20 to 50K*-4T/6T
- VSP-C20 to 50□K*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C10K*-4T	10	4	56.1	8	26	20	6	4.0 to 7.1	34
VSP-C10K*-6T		6							
VSP-C10-10K*-4T		4	60.6		30.5	25	10	2.0 to 5.2	35
VSP-C10-10K*-6T		6							
VSP-C10-15K*-4T		4	70.6		35.5	15	2.0 to 5.9	41	
VSP-C10-15K*-6T		6							
VSP-C10-20K*-4T		4	86.6		42.5	20	1.1 to 4.8	48	
VSP-C10-20K*-6T		6							
VSP-C20K*-4T	20	4	58.1	10	28	20	6	7.0 to 12.6	38
VSP-C20K*-6T		6							
VSP-C20-10K*-4T		4	64.1		34	10	3.3 to 10.0	40	
VSP-C20-10K*-6T		6							
VSP-C20-15K*-4T		4	74.1		39	15	3.3 to 10.4	45	
VSP-C20-15K*-6T		6							
VSP-C20-20K*-4T		4	90.1		46	20	2.0 to 8.7	52	
VSP-C20-20K*-6T		6							
VSP-C30K*-4T	30	4	60.1	12	30	20	6	7.0 to 12.6	42
VSP-C30K*-6T		6							
VSP-C30-10K*-4T		4	66.1		36	10	3.3 to 10.0	44	
VSP-C30-10K*-6T		6							
VSP-C30-15K*-4T		4	76.1		41	15	3.3 to 10.4	49	
VSP-C30-15K*-6T		6							
VSP-C30-20K*-4T		4	92.1		48	20	2.0 to 8.7	56	
VSP-C30-20K*-6T		6							
VSP-C40K*-4T	40	4	64.1	16	34	20	6	7.0 to 12.6	50
VSP-C40K*-6T		6							
VSP-C40-10K*-4T		4	70.1		40	10	3.3 to 10.0	53	
VSP-C40-10K*-6T		6							
VSP-C40-15K*-4T		4	80.1		45	15	3.3 to 10.4	58	
VSP-C40-15K*-6T		6							
VSP-C40-20K*-4T		4	96.1		52	20	2.0 to 8.7	64	
VSP-C40-20K*-6T		6							
VSP-C50K*-4T	50	4	65.1	17	35	20	6	7.0 to 12.6	57
VSP-C50K*-6T		6							
VSP-C50-10K*-4T		4	71.1		41	10	3.3 to 10.0	59	
VSP-C50-10K*-6T		6							
VSP-C50-15K*-4T		4	81.1		46	15	3.3 to 10.4	64	
VSP-C50-15K*-6T		6							
VSP-C50-20K*-4T		4	97.1		53	20	2.0 to 8.7	71	
VSP-C50-20K*-6T		6							

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

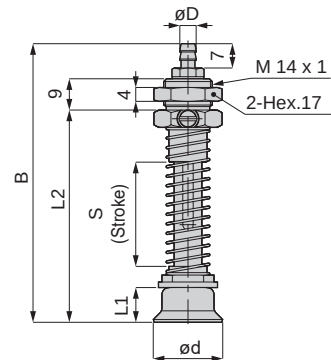
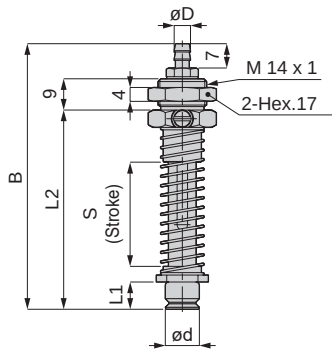
Flat

Suction mark prevention

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C10-□K*-4TC/6TC

●VSP-C20 to 50-□K*-4TC/6TC



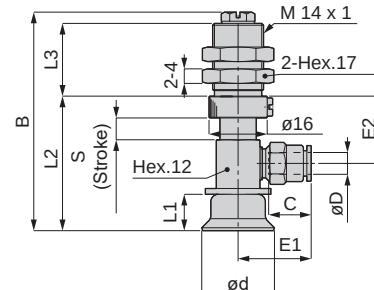
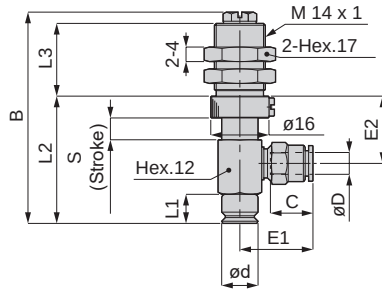
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)				
General/Deep/ Compact	VSP-C10-20K*-4TC	10	4	63.6	8	44.5	20	1.5 to 4.9	43				
	VSP-C10-20K*-6TC		6										
Sponge	VSP-C10-30K*-4TC		4	76.6		57.5	30	1.1 to 4.8	48				
	VSP-C10-30K*-6TC		6										
Bellows	VSP-C10-40K*-4TC		4	89.6		70.5	40	1.0 to 4.5	53				
	VSP-C10-40K*-6TC		6										
	VSP-C10-50K*-4TC		4	102.6		83.5	50	0.9 to 4.5	58				
	VSP-C10-50K*-6TC		6										
Multi-stage bellows	VSP-C20-20K*-4TC	20	4	67.1	10	48	20	1.5 to 4.9	48				
	VSP-C20-20K*-6TC		6										
	VSP-C20-30K*-4TC		4	80.1		61	30	1.1 to 4.8	53				
	VSP-C20-30K*-6TC		6										
Oval	VSP-C20-40K*-4TC		4	93.1		74	40	1.0 to 4.5	58				
	VSP-C20-40K*-6TC		6										
	VSP-C20-50K*-4TC		4	106.1						87	50	0.9 to 4.5	63
	VSP-C20-50K*-6TC		6										
Soft	VSP-C30-20K*-4TC	30	4	69.1	12	50	20	1.5 to 4.9	52				
	VSP-C30-20K*-6TC		6										
Soft bellows	VSP-C30-30K*-4TC		4	82.1		63	30	1.1 to 4.8	57				
	VSP-C30-30K*-6TC		6										
	VSP-C30-40K*-4TC		4	95.1		76	40	1.0 to 4.5	62				
	VSP-C30-40K*-6TC		6										
Anti-slip	VSP-C30-50K*-4TC		4	108.1		89	50	0.9 to 4.5	67				
	VSP-C30-50K*-6TC		6										
Thin object	VSP-C40-20K*-4TC	40	4	73.1	16	54	20	1.5 to 4.9	60				
	VSP-C40-20K*-6TC		6										
	VSP-C40-30K*-4TC		4	86.1		67	30	1.1 to 4.8	65				
	VSP-C40-30K*-6TC		6										
Flat	VSP-C40-40K*-4TC		4	99.1		80	40	1.0 to 4.5	70				
	VSP-C40-40K*-6TC		6										
	VSP-C40-50K*-4TC		4	112.1						93	50	0.9 to 4.5	76
	VSP-C40-50K*-6TC		6										
Suction mark prevention	VSP-C50-20K*-4TC	50	4	74.1	17	55	20	1.5 to 4.9	67				
	VSP-C50-20K*-6TC		6										
	VSP-C50-30K*-4TC		4	87.1		68	30	1.1 to 4.8	72				
	VSP-C50-30K*-6TC		6										
	VSP-C50-40K*-4TC		4	100.1		81	40	1.0 to 4.5	77				
	VSP-C50-40K*-6TC		6										
	VSP-C50-50K*-4TC		4	113.1		94	50	0.9 to 4.5	82				
	VSP-C50-50K*-6TC		6										

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

- VSP-D10K*-4/6
- VSP-D10-□K*-4/6

- VSP-D20 to 50K*-4/6
- VSP-D20 to 50-□K*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)	
VSP-D10K*-4	10	4	58.1	8	35	20	11.2	18.8	18.5	6	4.0 to 7.1	47	
VSP-D10K*-6		6					11.9	20.1				48	
VSP-D10-10K*-4		4	63.1		40		11.2	18.8	25	10	2.0 to 5.2	51	
VSP-D10-10K*-6		6					11.9	20.1				52	
VSP-D10-15K*-4		4	73.1		45	25	11.2	18.8	30	15	2.0 to 5.9	56	
VSP-D10-15K*-6		6					11.9	20.1				57	
VSP-D10-20K*-4		4	89.1		52	34	11.2	18.8	37	20	1.1 to 4.8	66	
VSP-D10-20K*-6		6					11.9	20.1				67	
VSP-D20K*-4	20	4	60.1	10	37	20	11.2	18.8	18.5	6	7.0 to 12.6	50	
VSP-D20K*-6		6					11.9	20.1				51	
VSP-D20-10K*-4		4	66.1		43		25	11.2	18.8	24.5	10	3.3 to 10.0	54
VSP-D20-10K*-6		6						11.9	20.1				55
VSP-D20-15K*-4		4	76.1		48	25	11.2	18.8	29.5	15	3.3 to 10.4	61	
VSP-D20-15K*-6		6					11.9	20.1				62	
VSP-D20-20K*-4		4	92.1		55	34	11.2	18.8	36.5	20	2.0 to 8.7	71	
VSP-D20-20K*-6		6					11.9	20.1				72	
VSP-D30K*-4	30	4	62.1	12	39	20	11.2	18.8	18.5	6	7.0 to 12.6	54	
VSP-D30K*-6		6					11.9	20.1				55	
VSP-D30-10K*-4		4	68.1		45		25	11.2	18.8	24.5	10	3.3 to 10.0	58
VSP-D30-10K*-6		6						11.9	20.1				59
VSP-D30-15K*-4		4	78.1		50	25	11.2	18.8	29.5	15	3.3 to 10.4	65	
VSP-D30-15K*-6		6					11.9	20.1				66	
VSP-D30-20K*-4		4	94.1		57	34	11.2	18.8	36.5	20	2.0 to 8.7	75	
VSP-D30-20K*-6		6					11.9	20.1				76	
VSP-D40K*-4	40	4	66.1	16	43	20	11.2	18.8	18.5	6	7.0 to 12.6	63	
VSP-D40K*-6		6					11.9	20.1				64	
VSP-D40-10K*-4		4	72.1		49		25	11.2	18.8	24.5	10	3.3 to 10.0	67
VSP-D40-10K*-6		6						11.9	20.1				68
VSP-D40-15K*-4		4	82.1		54	25	11.2	18.8	29.5	15	3.3 to 10.4	73	
VSP-D40-15K*-6		6					11.9	20.1				74	
VSP-D40-20K*-4		4	98.1		61	34	11.2	18.8	36.5	20	2.0 to 8.7	83	
VSP-D40-20K*-6		6					11.9	20.1				84	
VSP-D50K*-4	50	4	67.1	17	44	20	11.2	18.8	18.5	6	7.0 to 12.6	69	
VSP-D50K*-6		6					11.9	20.1				70	
VSP-D50-10K*-4		4	73.1		50		25	11.2	18.8	24.5	10	3.3 to 10.0	73
VSP-D50-10K*-6		6						11.9	20.1				74
VSP-D50-15K*-4		4	83.1		55	25	11.2	18.8	29.5	15	3.3 to 10.4	80	
VSP-D50-15K*-6		6					11.9	20.1				81	
VSP-D50-20K*-4		4	99.1		62	34	11.2	18.8	36.5	20	2.0 to 8.7	90	
VSP-D50-20K*-6		6					11.9	20.1				91	

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

Thin object

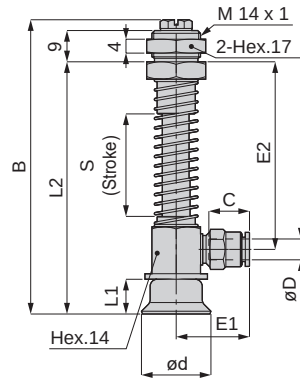
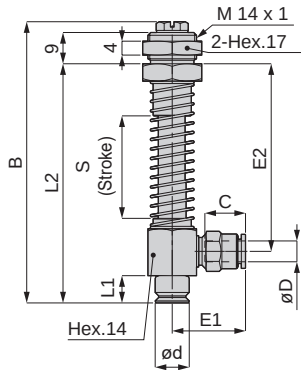
Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D10-□K*-4C/6C

●VSP-D20 to 50-□K*-4C/6C



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D10-20K*-4C	10	4	68.1	8	56	11.2	19.8	40.5	20	1.5 to 4.9	68
	VSP-D10-20K*-6C		6				11.9	21.1				69
Sponge	VSP-D10-30K*-4C		4	81.1		69	11.2	19.8	53.5	30	1.1 to 4.8	74
	VSP-D10-30K*-6C		6				11.9	21.1				75
Bellows	VSP-D10-40K*-4C		4	94.1		82	11.2	19.8	66.5	40	1.0 to 4.5	81
	VSP-D10-40K*-6C		6				11.9	21.1				82
	VSP-D10-50K*-4C		4	107.1		95	11.2	19.8	79.5	50	0.9 to 4.5	88
	VSP-D10-50K*-6C		6				11.9	21.1				89
Multi-stage bellows	VSP-D20-20K*-4C	20	4	71.6	10	59.5	11.2	19.8	41	20	1.5 to 4.9	69
	VSP-D20-20K*-6C		6				11.9	21.1				70
	VSP-D20-30K*-4C		4	84.6		72.5	11.2	19.8	54	30	1.1 to 4.8	76
	VSP-D20-30K*-6C		6				11.9	21.1				77
Oval	VSP-D20-40K*-4C		4	97.6		85.5	11.2	19.8	67	40	1.0 to 4.5	82
	VSP-D20-40K*-6C		6				11.9	21.1				83
	VSP-D20-50K*-4C		4	110.6		98.5	11.2	19.8	80	50	0.9 to 4.5	89
	VSP-D20-50K*-6C		6				11.9	21.1				90
Soft	VSP-D30-20K*-4C	30	4	73.6	12	61.5	11.2	19.8	41	20	1.5 to 4.9	73
	VSP-D30-20K*-6C		6				11.9	21.1				74
Soft bellows	VSP-D30-30K*-4C		4	86.6		74.5	11.2	19.8	54	30	1.1 to 4.8	80
	VSP-D30-30K*-6C		6				11.9	21.1				81
	VSP-D30-40K*-4C		4	99.6		87.5	11.2	19.8	67	40	1.0 to 4.5	86
	VSP-D30-40K*-6C		6				11.9	21.1				87
Anti-slip	VSP-D30-50K*-4C		4	112.6		100.5	11.2	19.8	80	50	0.9 to 4.5	93
	VSP-D30-50K*-6C		6				11.9	21.1				94
	VSP-D40-20K*-4C	40	4	77.6	16	65.5	11.2	19.8	41	20	1.5 to 4.9	81
	VSP-D40-20K*-6C		6				11.9	21.1				82
Thin object	VSP-D40-30K*-4C		4	90.6		78.5	11.2	19.8	54	30	1.1 to 4.8	88
	VSP-D40-30K*-6C		6				11.9	21.1				89
Flat	VSP-D40-40K*-4C		4	103.6		91.5	11.2	19.8	67	40	1.0 to 4.5	95
	VSP-D40-40K*-6C		6				11.9	21.1				96
	VSP-D40-50K*-4C		4	116.6		104.5	11.2	19.8	80	50	0.9 to 4.5	102
	VSP-D40-50K*-6C		6				11.9	21.1				103
Suction mark prevention	VSP-D50-20K*-4C	50	4	78.6	17	66.5	11.2	19.8	41	20	1.5 to 4.9	88
	VSP-D50-20K*-6C		6				11.9	21.1				89
	VSP-D50-30K*-4C		4	91.6		79.5	11.2	19.8	54	30	1.1 to 4.8	95
	VSP-D50-30K*-6C		6				11.9	21.1				96
	VSP-D50-40K*-4C		4	104.6		92.5	11.2	19.8	67	40	1.0 to 4.5	101
	VSP-D50-40K*-6C		6				11.9	21.1				102
	VSP-D50-50K*-4C		4	117.6		105.5	11.2	19.8	80	50	0.9 to 4.5	108
	VSP-D50-50K*-6C		6				11.9	21.1				109

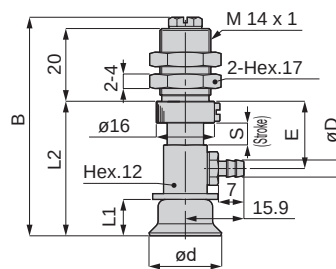
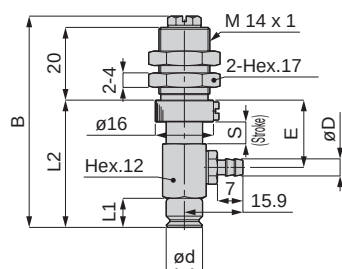
Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting)

●VSP-D10K*-4T/6T

●VSP-D10-□K*-4T/6T

●VSP-D20 to 50K*-4T/6T

●VSP-D20 to 50-□K*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D10K*-4T	10	2.5	58.1	8	35	20	18.5	6	4.0 to 7.1	46
VSP-D10K*-6T		4								
VSP-D10-10K*-4T		2.5	63.1		40	25	10	2.0 to 5.2	50	
VSP-D10-10K*-6T		4								
VSP-D10-15K*-4T		2.5	73.1		45	25	30	15	2.0 to 5.9	55
VSP-D10-15K*-6T		4								
VSP-D10-20K*-4T		2.5	89.1		52	34	37	20	1.1 to 4.8	65
VSP-D10-20K*-6T		4								
VSP-D20K*-4T	20	2.5	60.1	10	37	20	18.5	6	7.0 to 12.6	49
VSP-D20K*-6T		4								
VSP-D20-10K*-4T		2.5	66.1		43	24.5	10	3.3 to 10.0	53	
VSP-D20-10K*-6T		4								
VSP-D20-15K*-4T		2.5	76.1		48	25	29.5	15	3.3 to 10.4	60
VSP-D20-15K*-6T		4								
VSP-D20-20K*-4T		2.5	92.1		55	34	36.5	20	2.0 to 8.7	70
VSP-D20-20K*-6T		4								
VSP-D30K*-4T	30	2.5	62.1	12	39	20	18.5	6	7.0 to 12.6	53
VSP-D30K*-6T		4								
VSP-D30-10K*-4T		2.5	68.1		45	24.5	10	3.3 to 10.0	57	
VSP-D30-10K*-6T		4								
VSP-D30-15K*-4T		2.5	78.1		50	25	29.5	15	3.3 to 10.4	64
VSP-D30-15K*-6T		4								
VSP-D30-20K*-4T		2.5	94.1		57	34	36.5	20	2.0 to 8.7	74
VSP-D30-20K*-6T		4								
VSP-D40K*-4T	40	2.5	66.1	16	43	20	18.5	6	7.0 to 12.6	62
VSP-D40K*-6T		4								
VSP-D40-10K*-4T		2.5	72.1		49	24.5	10	3.3 to 10.0	66	
VSP-D40-10K*-6T		4								
VSP-D40-15K*-4T		2.5	82.1		54	25	29.5	15	3.3 to 10.4	72
VSP-D40-15K*-6T		4								
VSP-D40-20K*-4T		2.5	98.1		61	34	36.5	20	2.0 to 8.7	82
VSP-D40-20K*-6T		4								
VSP-D50K*-4T	50	2.5	67.1	17	44	20	18.5	6	7.0 to 12.6	68
VSP-D50K*-6T		4								
VSP-D50-10K*-4T		2.5	73.1		50	24.5	10	3.3 to 10.0	72	
VSP-D50-10K*-6T		4								
VSP-D50-15K*-4T		2.5	83.1		55	25	29.5	15	3.3 to 10.4	79
VSP-D50-15K*-6T		4								
VSP-D50-20K*-4T		2.5	99.1		62	34	36.5	20	2.0 to 8.7	89
VSP-D50-20K*-6T		4								

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

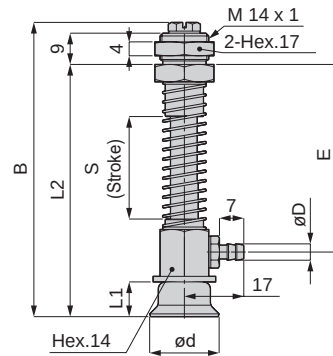
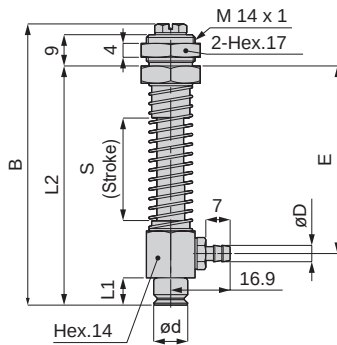
Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D10-□K*-4TC/6TC

●VSP-D20 to 50-□K*-4TC/6TC



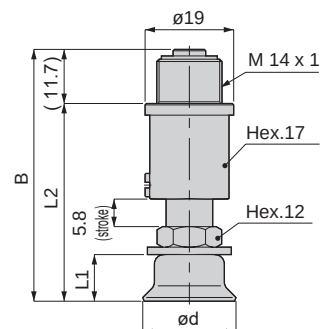
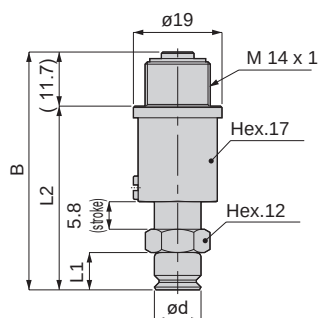
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)					
General/Deep/ Compact	VSP-D10-20K*-4TC	10	2.5	68.1	8	56	40.5	20	1.5 to 4.9	67					
	VSP-D10-20K*-6TC		4												
Sponge	VSP-D10-30K*-4TC		2.5	81.1		69	53.5	30	1.1 to 4.8	74					
	VSP-D10-30K*-6TC		4												
Bellows	VSP-D10-40K*-4TC		2.5	94.1		82	66.5	40	1.0 to 4.5	80					
	VSP-D10-40K*-6TC		4												
	VSP-D10-50K*-4TC		2.5	107.1							95	79.5	50	0.9 to 4.5	87
VSP-D10-50K*-6TC	4														
Multi-stage bellows	VSP-D20-20K*-4TC	20	4	71.6	10	59.5	41	20	1.5 to 4.9	68					
	VSP-D20-20K*-6TC		6												
	VSP-D20-30K*-4TC		4	84.6		72.5	54	30	1.1 to 4.8	75					
	VSP-D20-30K*-6TC		6												
Oval	VSP-D20-40K*-4TC		4	97.6		85.5	67	40	1.0 to 4.5	81					
	VSP-D20-40K*-6TC		6												
	VSP-D20-50K*-4TC		4	110.6		98.5	80	50	0.9 to 4.5	88					
	VSP-D20-50K*-6TC		6												
	Soft	VSP-D30-20K*-4TC	30	4	73.6						12	61.5	41	20	1.5 to 4.9
VSP-D30-20K*-6TC		6													
Soft bellows	VSP-D30-30K*-4TC	4		86.6	74.5	54	30	1.1 to 4.8	79						
	VSP-D30-30K*-6TC	6													
	VSP-D30-40K*-4TC	4		99.6						87.5		67	40	1.0 to 4.5	85
	VSP-D30-40K*-6TC	6													
Anti-slip	VSP-D30-50K*-4TC	4		112.6	100.5	80	50	0.9 to 4.5	92						
	VSP-D30-50K*-6TC	6													
	VSP-D40-20K*-4TC	40	4	77.6	16	65.5	41	20	1.5 to 4.9	80					
	VSP-D40-20K*-6TC		6												
	Thin object		VSP-D40-30K*-4TC	4		90.6	78.5	54	30	1.1 to 4.8	87				
			VSP-D40-30K*-6TC	6											
Flat	VSP-D40-40K*-4TC		4	103.6		91.5	67	40	1.0 to 4.5	94					
	VSP-D40-40K*-6TC		6												
	VSP-D40-50K*-4TC		4	116.6							104.5	80	50	0.9 to 4.5	101
	VSP-D40-50K*-6TC		6												
Suction mark prevention	VSP-D50-20K*-4TC	50	4	78.6	17	66.5	41	20	1.5 to 4.9	87					
	VSP-D50-20K*-6TC		6												
	VSP-D50-30K*-4TC		4	91.6		79.5	54	30	1.1 to 4.8	94					
	VSP-D50-30K*-6TC		6												
	VSP-D50-40K*-4TC		4	104.6		92.5	67	40	1.0 to 4.5	100					
	VSP-D50-40K*-6TC		6												
	VSP-D50-50K*-4TC		4	117.6		105.5	80	50	0.9 to 4.5	107					
	VSP-D50-50K*-6TC		6												

Dimensions (direct mounting buffer, VSP-F)

●VSP-F10K*

●VSP-F20 to 50K*



Unit: mm

Model No.	Pad diameter ød	B	L1	L2	Spring force (N)	Weight (g)
VSP-F10K*	10	51	8	39.3	7.9 to 15	56
VSP-F20K*	20	54	10	42.3	7.9 to 15	59
VSP-F30K*	30	56	12	44.3	7.9 to 15	63
VSP-F40K*	40	60	16	48.3	7.9 to 15	71
VSP-F50K*	50	61	17	49.3	7.9 to 15	78

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

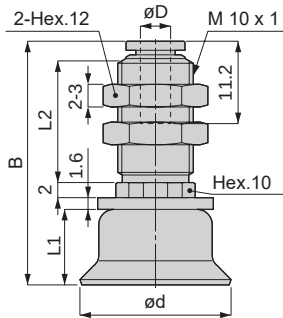
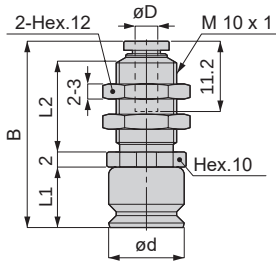
Flat

Suction mark
prevention

Dimensions (compact fixed, vacuum outlet top VSP-MA, push-in fitting)

●VSP-MA10K*-4

●VSP-MA20 to 50K*-4



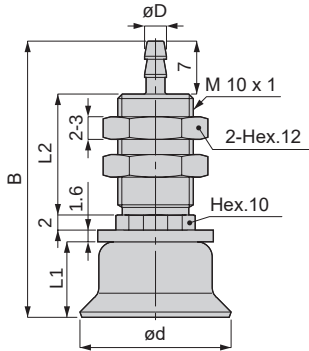
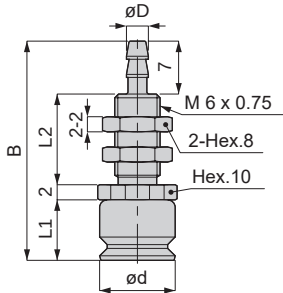
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA10K*-4	10	4	29	8	16.4	6.4
VSP-MA20K*-4	20	4	32.6	10	16.4	12
VSP-MA30K*-4	30	4	34.6	12	16.4	16
VSP-MA40K*-4	40	4	38.6	16	16.4	25
VSP-MA50K*-4	50	4	39.6	17	16.4	36

Dimensions (compact fixed, vacuum outlet top VSP-MB, barbed fitting)

●VSP-MA10K*-4T

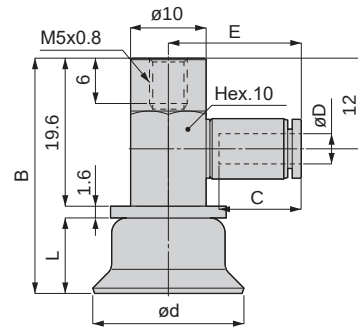
●VSP-MA20 to 50K*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA10K*-4T	10	2.5	29	8	12	3.6
VSP-MA20K*-4T	20	2.5	36.6	10	16	12
VSP-MA20K*-6T		4				
VSP-MA30K*-4T	30	2.5	38.6	12	16	16
VSP-MA30K*-6T		4				
VSP-MA40K*-4T	40	2.5	42.6	16	16	25
VSP-MA40K*-6T		4				
VSP-MA50K*-4T	50	2.5	43.6	17	16	36
VSP-MA50K*-6T		4				

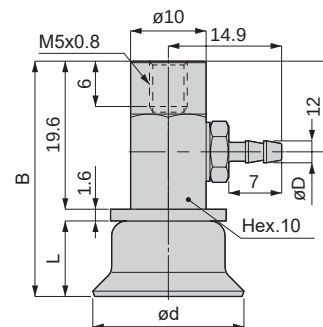
●VSP-MB20 to 50K*-2/4/6



Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB10K*-2	10	1.8	27	8	8.4	13.7	7.1
VSP-MB10K*-4		4			11.2	17.8	8.1
VSP-MB10K*-6		6			11.9	19.6	9.1
VSP-MB20K*-2	20	1.8	31.2	10	8.4	13.7	12
VSP-MB20K*-4		4			11.2	17.8	13
VSP-MB20K*-6		6			11.9	19.6	14
VSP-MB30K*-2	30	1.8	33.2	12	8.4	13.7	16
VSP-MB30K*-4		4			11.2	17.8	17
VSP-MB30K*-6		6			11.9	19.6	18
VSP-MB40K*-2	40	1.8	37.2	16	8.4	13.7	25
VSP-MB40K*-4		4			11.2	17.8	26
VSP-MB40K*-6		6			11.9	19.6	27
VSP-MB50K*-2	50	1.8	38.2	17	8.4	13.7	36
VSP-MB50K*-4		4			11.2	17.8	37
VSP-MB50K*-6		6			11.9	19.6	38

Suction mark
provision

●VSP-MB20 to 50K*-4T/6T



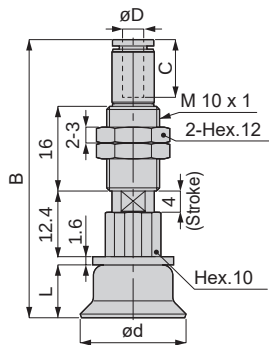
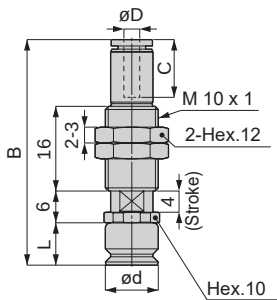
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB10K*-4T	10	2.5	27	8	6.7
VSP-MB10K*-6T		4			
VSP-MB20K*-4T	20	2.5	31.2	10	12
VSP-MB20K*-6T		4			
VSP-MB30K*-4T	30	2.5	33.2	12	16
VSP-MB30K*-6T		4			
VSP-MB40K*-4T	40	2.5	37.2	16	25
VSP-MB40K*-6T		4			
VSP-MB50K*-4T	50	2.5	38.2	17	36
VSP-MB50K*-6T		4			

VSP-***K*** Series

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

●VSP-MC10K*-2/4

●VSP-MC20 to 50K*-2/4



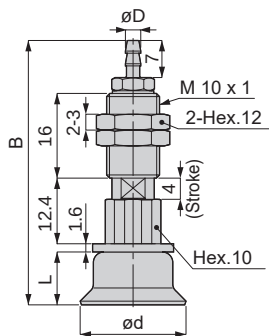
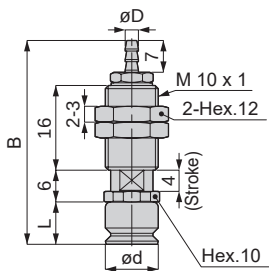
Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-MC10K*-2	10	1.8	38.9	8	8.4	1 to 1.3	15
	VSP-MC10K*-4		4	43		11.2		16
	VSP-MC20K*-2	20	1.8	48.9	10	8.4	1 to 1.3	23
	VSP-MC20K*-4		4	53		11.2		24
Sponge	VSP-MC30K*-2	30	1.8	50.9	12	8.4	1 to 1.3	27
	VSP-MC30K*-4		4	55		11.2		28
Bellows	VSP-MC40K*-2	40	1.8	54.9	16	8.4	1 to 1.3	36
	VSP-MC40K*-4		4	59		11.2		37
Multi-stage bellows	VSP-MC50K*-2	50	1.8	55.9	17	8.4	1 to 1.3	47
	VSP-MC50K*-4		4	60		11.2		48

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

●VSP-MC10K*-4T/6T

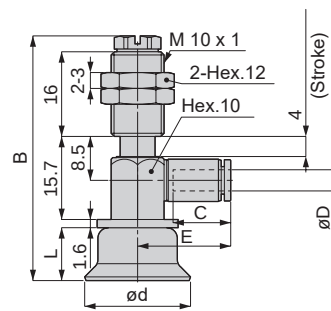
●VSP-MC20 to 50K*-4T/6T



Unit: mm

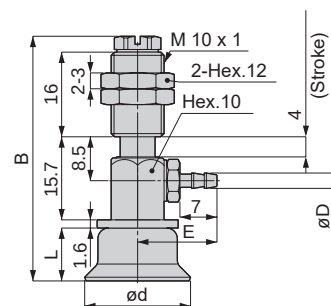
	Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
Flat	VSP-MC10K*-4T	10	2.5	40.1	8	0.5 to 0.6	15
	VSP-MC10K*-6T		4				
Suction mark prevention	VSP-MC20K*-4T	20	2.5	50.1	10	1 to 1.3	23
	VSP-MC20K*-6T		4				
Thin object	VSP-MC30K*-4T	30	2.5	52.1	12	1 to 1.3	27
	VSP-MC30K*-6T		4				
Anti-slip	VSP-MC40K*-4T	40	2.5	56.1	16	1 to 1.3	36
	VSP-MC40K*-6T		4				
Soft bellows	VSP-MC50K*-4T	50	2.5	57.1	17	1 to 1.3	47
	VSP-MC50K*-6T		4				

●VSP-MD20 to 50K*-2/4/6



Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD10K*-2	10	1.8	42.5	8	8.4	13.6	1 to 1.3	22
VSP-MD10K*-4		4			11.2	17.7		23
VSP-MD10K*-6		6			11.9	19.5		24
VSP-MD20K*-2	20	1.8	46.3	10	8.4	13.6	1 to 1.3	26
VSP-MD20K*-4		4			11.2	17.7		27
VSP-MD20K*-6		6			11.9	19.5		28
VSP-MD30K*-2	30	1.8	48.3	12	8.4	13.6	1 to 1.3	30
VSP-MD30K*-4		4			11.2	17.7		31
VSP-MD30K*-6		6			11.9	19.5		32
VSP-MD40K*-2	40	1.8	52.3	16	8.4	13.6	1 to 1.3	39
VSP-MD40K*-4		4			11.2	17.7		40
VSP-MD40K*-6		6			11.9	19.5		41
VSP-MD50K*-2	50	1.8	53.3	17	8.4	13.6	1 to 1.3	48
VSP-MD50K*-4		4			11.2	17.7		49
VSP-MD50K*-6		6			11.9	19.5		50

●VSP-MD20 to 50K*-4T/6T

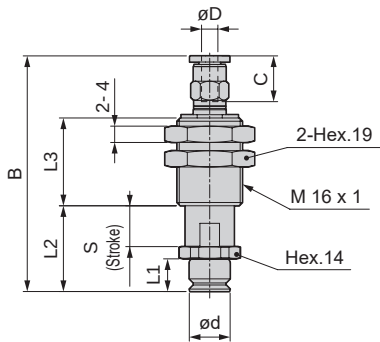


Model No.	Pad diameter ød	Bore size øD	B	L	E	Spring force (N)	Weight (g)
VSP-MD10K*-4T	10	2.5	42.5	8	14.8	1 to 1.3	22
VSP-MD10K*-6T		4					
VSP-MD20K*-4T	20	2.5	46.3	10	14.8	1 to 1.3	26
VSP-MD20K*-6T		4					
VSP-MD30K*-4T	30	2.5	48.3	12	14.8	1 to 1.3	30
VSP-MD30K*-6T		4					
VSP-MD40K*-4T	40	2.5	52.3	16	14.8	1 to 1.3	39
VSP-MD40K*-6T		4					
VSP-MD50K*-4T	50	2.5	53.3	17	14.8	1 to 1.3	50
VSP-MD50K*-6T		4					

VSP-^{*}K^{*} Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC10-□K^{*}-2/4/6

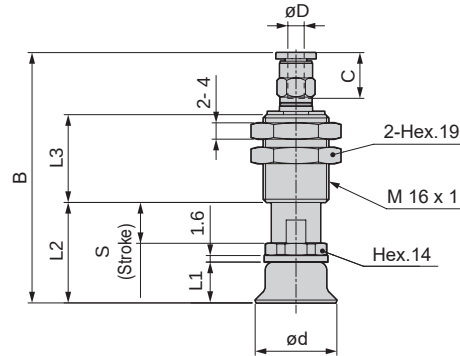


Unit: mm

Model No.	Pad diameter ϕd	Bore size ϕD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10K [*] -2	10	1.8	53.6	8	21	21.5	8.4	10	1.0 to 2.4	22
VSP-HC10-10K [*] -4		4	57.7				11.2			23
VSP-HC10-10K [*] -6		6	59				11.9			24
VSP-HC10-15K [*] -2		1.8	63.6		26	26.5	8.4	15	1.0 to 2.7	24
VSP-HC10-15K [*] -4		4	67.7				11.2			25
VSP-HC10-15K [*] -6		6	69				11.9			26
VSP-HC10-20K [*] -2		1.8	73.6		31	31.5	8.4	20	1.0 to 3.0	26
VSP-HC10-20K [*] -4		4	77.7				11.2			27
VSP-HC10-20K [*] -6		6	79				11.9			28
VSP-HC10-25K [*] -2		1.8	84.1		36	37	8.4	25	1.0 to 3.0	28
VSP-HC10-25K [*] -4		4	88.2				11.2			29
VSP-HC10-25K [*] -6		6	89.5				11.9			30
VSP-HC10-30K [*] -2		1.8	95.1		41	43	8.4	30	1.0 to 3.0	30
VSP-HC10-30K [*] -4		4	99.2				11.2			31
VSP-HC10-30K [*] -6		6	100.5				11.9			32
VSP-HC10-40K [*] -2		1.8	117.1		51	55	8.4	40	1.0 to 3.0	34
VSP-HC10-40K [*] -4		4	121.2				11.2			35
VSP-HC10-40K [*] -6		6	122.5				11.9			36
VSP-HC10-50K [*] -2		1.8	138.6		61	66.5	8.4	50	1.0 to 3.1	39
VSP-HC10-50K [*] -4		4	142.7				11.2			40
VSP-HC10-50K [*] -6		6	144				11.9			41

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC20, 30-□K*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10K*-2	20	1.8	57.2	10	24.6	21.5	8.4	10	1.0 to 2.4	27
VSP-HC20-10K*-4		4	61.3				11.2			28
VSP-HC20-10K*-6		6	62.6				11.9			29
VSP-HC20-15K*-2		1.8	67.2		29.6	26.5	8.4	15	1.0 to 2.7	29
VSP-HC20-15K*-4		4	71.3				11.2			30
VSP-HC20-15K*-6		6	72.6				11.9			31
VSP-HC20-20K*-2		1.8	77.2		34.6	31.5	8.4	20	1.0 to 3.0	31
VSP-HC20-20K*-4		4	81.3				11.2			32
VSP-HC20-20K*-6		6	82.6				11.9			33
VSP-HC20-25K*-2		1.8	87.7		39.6	37	8.4	25	1.0 to 3.0	33
VSP-HC20-25K*-4		4	91.8				11.2			34
VSP-HC20-25K*-6		6	93.1				11.9			35
VSP-HC20-30K*-2		1.8	98.7		44.6	43	8.4	30	1.0 to 3.0	35
VSP-HC20-30K*-4		4	102.8				11.2			36
VSP-HC20-30K*-6		6	104.1				11.9			37
VSP-HC20-40K*-2		1.8	120.7		54.6	55	8.4	40	1.0 to 3.0	39
VSP-HC20-40K*-4		4	124.8				11.2			40
VSP-HC20-40K*-6		6	126.1				11.9			41
VSP-HC20-50K*-2		1.8	142.2		64.6	66.5	8.4	50	1.0 to 3.1	43
VSP-HC20-50K*-4		4	146.3				11.2			44
VSP-HC20-50K*-6		6	147.6				11.9			45
VSP-HC30-10K*-2	30	1.8	59.2	12	26.6	21.5	8.4	10	1.0 to 2.4	30
VSP-HC30-10K*-4		4	63.3				11.2			31
VSP-HC30-10K*-6		6	64.6				11.9			32
VSP-HC30-15K*-2		1.8	69.2		31.6	26.5	8.4	15	1.0 to 2.7	32
VSP-HC30-15K*-4		4	73.3				11.2			33
VSP-HC30-15K*-6		6	74.6				11.9			34
VSP-HC30-20K*-2		1.8	79.2		36.6	31.5	8.4	20	1.0 to 3.0	34
VSP-HC30-20K*-4		4	83.3				11.2			35
VSP-HC30-20K*-6		6	84.6				11.9			36
VSP-HC30-25K*-2		1.8	89.7		41.6	37	8.4	25	1.0 to 3.0	36
VSP-HC30-25K*-4		4	93.8				11.2			37
VSP-HC30-25K*-6		6	95.1				11.9			38
VSP-HC30-30K*-2		1.8	100.7		46.6	43	8.4	30	1.0 to 3.0	38
VSP-HC30-30K*-4		4	104.8				11.2			39
VSP-HC30-30K*-6		6	106.1				11.9			40
VSP-HC30-40K*-2		1.8	122.7		56.5	55	8.4	40	1.0 to 3.0	42
VSP-HC30-40K*-4		4	126.8				11.2			43
VSP-HC30-40K*-6		6	128.1				11.9			44
VSP-HC30-50K*-2		1.8	144.2		66.6	66.5	8.4	50	1.0 to 3.1	46
VSP-HC30-50K*-4		4	148.3				11.2			47
VSP-HC30-50K*-6		6	149.6				11.9			48

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

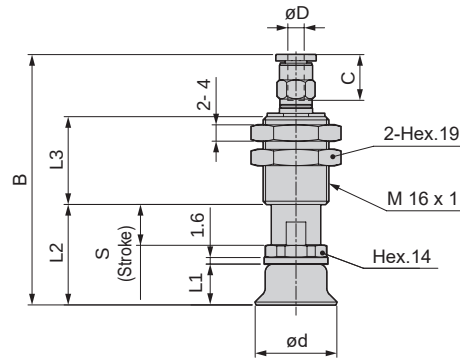
Thin object

Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC40, 50-□K*-2/4/6

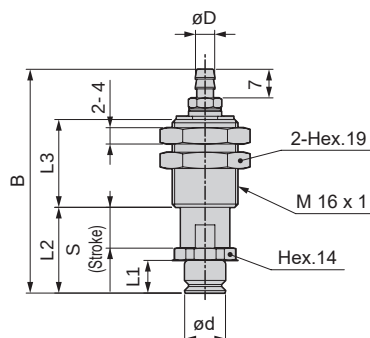


Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC40-10K*-2	40	1.8	63.2	16	30.6	21.5	8.4	10	1.0 to 2.4	37
	VSP-HC40-10K*-4		4	67.3				11.2			38
	VSP-HC40-10K*-6		6	68.6				11.9			39
	VSP-HC40-15K*-2		1.8	73.2		35.6	26.5	8.4	15	1.0 to 2.7	39
Sponge	VSP-HC40-15K*-4		4	77.3				11.2			40
	VSP-HC40-15K*-6		6	78.6				11.9			41
Bellows	VSP-HC40-20K*-2		1.8	83.2		40.6	31.5	8.4	20	1.0 to 3.0	41
	VSP-HC40-20K*-4		4	87.3				11.2			42
	VSP-HC40-20K*-6		6	88.6				11.9			43
Multi-stage bellows	VSP-HC40-25K*-2		1.8	93.7		45.6	37	8.4	25	1.0 to 3.0	43
	VSP-HC40-25K*-4		4	97.8				11.2			44
	VSP-HC40-25K*-6		6	99.1				11.9			45
Oval	VSP-HC40-30K*-2		1.8	104.7		50.6	43	8.4	30	1.0 to 3.0	46
	VSP-HC40-30K*-4		4	108.8				11.2			46
	VSP-HC40-30K*-6		6	110.1				11.9			47
Soft	VSP-HC40-40K*-2		1.8	126.7		60.6	55	8.4	40	1.0 to 3.0	49
	VSP-HC40-40K*-4		4	130.8				11.2			50
	VSP-HC40-40K*-6		6	132.1				11.9			51
Soft bellows	VSP-HC40-50K*-2		1.8	148.2		70.6	66.5	8.4	50	1.0 to 3.1	53
	VSP-HC40-50K*-4		4	152.3				11.2			54
	VSP-HC40-50K*-6		6	153.6				11.9			55
Anti-slip	VSP-HC50-10K*-2	50	1.8	64.2	17	31.6	21.5	8.4	10	1.0 to 2.4	43
	VSP-HC50-10K*-4		4	68.3				11.2			44
	VSP-HC50-10K*-6		6	69.6				11.9			45
Thin object	VSP-HC50-15K*-2		1.8	74.2		36.6	26.5	8.4	15	1.0 to 2.7	45
	VSP-HC50-15K*-4		4	78.3				11.2			46
	VSP-HC50-15K*-6		6	79.6				11.9			47
Flat	VSP-HC50-20K*-2		1.8	84.2		41.6	31.5	8.4	20	1.0 to 3.0	47
	VSP-HC50-20K*-4		4	88.3				11.2			48
	VSP-HC50-20K*-6		6	89.6				11.9			49
Suction mark prevention	VSP-HC50-25K*-2		1.8	94.7		46.6	37	8.4	25	1.0 to 3.0	49
	VSP-HC50-25K*-4		4	98.8				11.2			50
	VSP-HC50-25K*-6		6	100.1				11.9			51
	VSP-HC50-30K*-2		1.8	105.7		51.6	43	8.4	30	1.0 to 3.0	51
	VSP-HC50-30K*-4		4	109.8				11.2			52
	VSP-HC50-30K*-6		6	111.1				11.9			53
	VSP-HC50-40K*-2		1.8	127.7		61.6	55	8.4	40	1.0 to 3.0	55
	VSP-HC50-40K*-4		4	131.8				11.2			56
	VSP-HC50-40K*-6		6	133.1				11.9			57
	VSP-HC50-50K*-2		1.8	149.2		71.6	66.5	8.4	50	1.0 to 3.1	59
	VSP-HC50-50K*-4		4	153.3				11.2			60
	VSP-HC50-50K*-6		6	154.6				11.9			61

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC10-□K*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10K*-4T	10	2.5	54.8	8	21	21.5	10	1.0 to 2.4	21
VSP-HC10-10K*-6T		4							
VSP-HC10-15K*-4T		2.5	64.8		26	26.5	15	1.0 to 2.7	23
VSP-HC10-15K*-6T		4							
VSP-HC10-20K*-4T		2.5	74.8		31	31.5	20	1.0 to 3.0	25
VSP-HC10-20K*-6T		4							
VSP-HC10-25K*-4T		2.5	85.3		36	37	25	1.0 to 3.0	28
VSP-HC10-25K*-6T		4							
VSP-HC10-30K*-4T		2.5	96.3		41	43	30	1.0 to 3.0	30
VSP-HC10-30K*-6T		4							
VSP-HC10-40K*-4T		2.5	118.3		51	55	40	1.0 to 3.0	34
VSP-HC10-40K*-6T		4							
VSP-HC10-50K*-4T		2.5	139.8		61	66.5	50	1.0 to 3.1	38
VSP-HC10-50K*-6T		4							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

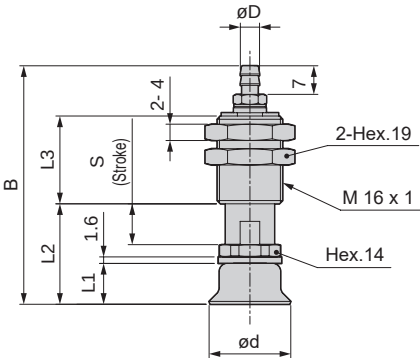
Thin object

Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC20, 30-□K*-4T/6T

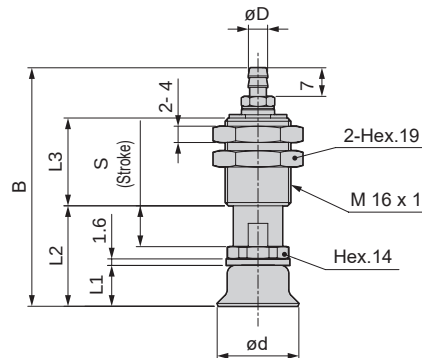


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10K*-4T	20	2.5	58.4	10	24.6	21.5	10	1.0 to 2.4	25
VSP-HC20-10K*-6T		4							
VSP-HC20-15K*-4T		2.5	68.4		29.6	26.5	15	1.0 to 2.7	27
VSP-HC20-15K*-6T		4							
VSP-HC20-20K*-4T		2.5	78.4		34.6	31.5	20	1.0 to 3.0	29
VSP-HC20-20K*-6T		4							
VSP-HC20-25K*-4T		2.5	88.9		39.6	37	25	1.0 to 3.0	31
VSP-HC20-25K*-6T		4							
VSP-HC20-30K*-4T		2.5	99.9		44.6	43	30	1.0 to 3.0	33
VSP-HC20-30K*-6T		4							
VSP-HC20-40K*-4T		2.5	121.9		54.6	55	40	1.0 to 3.0	38
VSP-HC20-40K*-6T		4							
VSP-HC20-50K*-4T	2.5	143.4	64.6	66.5	50	1.0 to 3.1	42		
VSP-HC20-50K*-6T	4								
VSP-HC30-10K*-4T	30	2.5	60.4	12	26.6	21.5	10	1.0 to 2.4	28
VSP-HC30-10K*-6T		4							
VSP-HC30-15K*-4T		2.5	70.4		31.6	26.5	15	1.0 to 2.7	30
VSP-HC30-15K*-6T		4							
VSP-HC30-20K*-4T		2.5	80.4		36.6	31.5	20	1.0 to 3.0	32
VSP-HC30-20K*-6T		4							
VSP-HC30-25K*-4T		2.5	90.9		41.6	37	25	1.0 to 3.0	34
VSP-HC30-25K*-6T		4							
VSP-HC30-30K*-4T		2.5	101.9		46.6	43	30	1.0 to 3.0	36
VSP-HC30-30K*-6T		4							
VSP-HC30-40K*-4T		2.5	123.9		56.6	55	40	1.0 to 3.0	41
VSP-HC30-40K*-6T		4							
VSP-HC30-50K*-4T	2.5	145.4	66.6	66.5	50	1.0 to 3.1	45		
VSP-HC30-50K*-6T	4								

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC40, 50-□K*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC40-10K*-4T	40	2.5	64.4	16	30.6	21.5	10	1.0 to 2.4	35
VSP-HC40-10K*-6T		4							
VSP-HC40-15K*-4T		2.5	74.4		35.6	26.5	15	1.0 to 2.7	37
VSP-HC40-15K*-6T		4							
VSP-HC40-20K*-4T		2.5	84.4		40.6	31.5	20	1.0 to 3.0	39
VSP-HC40-20K*-6T		4							
VSP-HC40-25K*-4T		2.5	94.9		45.6	37	25	1.0 to 3.0	41
VSP-HC40-25K*-6T		4							
VSP-HC40-30K*-4T		2.5	105.9		50.6	43	30	1.0 to 3.0	43
VSP-HC40-30K*-6T		4							
VSP-HC40-40K*-4T		2.5	127.9		60.6	55	40	1.0 to 3.0	48
VSP-HC40-40K*-6T		4							
VSP-HC40-50K*-4T		2.5	149.4		70.6	66.5	50	1.0 to 3.1	52
VSP-HC40-50K*-6T		4							
VSP-HC50-10K*-4T	50	2.5	65.4	17	31.6	21.5	10	1.0 to 2.4	41
VSP-HC50-10K*-6T		4							
VSP-HC50-15K*-4T		2.5	75.4		36.6	26.5	15	1.0 to 2.7	43
VSP-HC50-15K*-6T		4							
VSP-HC50-20K*-4T		2.5	85.4		41.6	31.5	20	1.0 to 3.0	45
VSP-HC50-20K*-6T		4							
VSP-HC50-25K*-4T		2.5	95.9		46.6	37	25	1.0 to 3.0	47
VSP-HC50-25K*-6T		4							
VSP-HC50-30K*-4T		2.5	106.9		51.6	43	30	1.0 to 3.0	49
VSP-HC50-30K*-6T		4							
VSP-HC50-40K*-4T		2.5	128.9		61.6	55	40	1.0 to 3.0	54
VSP-HC50-40K*-6T		4							
VSP-HC50-50K*-4T		2.5	150.4		71.6	66.5	50	1.0 to 3.1	58
VSP-HC50-50K*-6T		4							

Suction pad

General/Deep/Compact

Sponge

Bel lows

Multi-stage bellows

Oval

Soft

Soft bellows

Anti-slip

Thin object

Flat

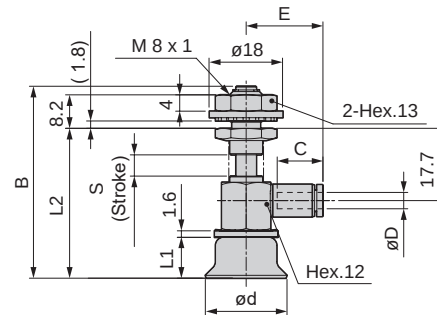
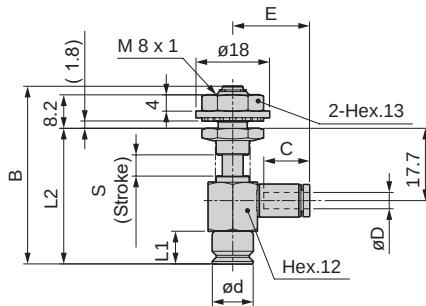
Suction mark prevention

VSP-*K* Series

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, push-in fitting)

●VSP-HD10K*-2/4/6

●VSP-HD20 to 50K*-2/4/6



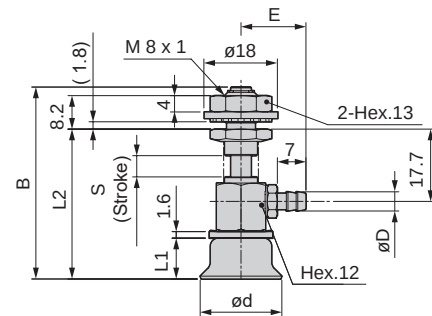
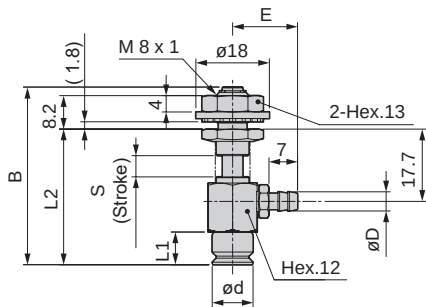
Unit: mm

Model No.	Model No.	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10K*-2	10	1.8	43.5	8	33.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HD10K*-4		4				11.2	18.8			34
VSP-HD10K*-6		6				11.9	20.6			35
VSP-HD20K*-2	20	1.8	47	10	36.7	8.4	14.7	5.2	1.6 to 2.9	36
VSP-HD20K*-4		4				11.2	18.8			37
VSP-HD20K*-6		6				11.9	20.6			38
VSP-HD30K*-2	30	1.8	49	12	38.7	8.4	14.7	5.2	1.6 to 2.9	39
VSP-HD30K*-4		4				11.2	18.8			40
VSP-HD30K*-6		6				11.9	20.6			41
VSP-HD40K*-2	40	1.8	53	16	42.7	8.4	14.7	5.2	1.6 to 2.9	46
VSP-HD40K*-4		4				11.2	18.8			47
VSP-HD40K*-6		6				11.9	20.6			48
VSP-HD50K*-2	50	1.8	54	17	43.7	8.4	14.7	5.2	1.6 to 2.9	52
VSP-HD50K*-4		4				11.2	18.8			53
VSP-HD50K*-6		6				11.9	20.6			54

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, barbed fitting)

●VSP-HD10K*-4T/6T

●VSP-HD20 to 50K*-4T/6T

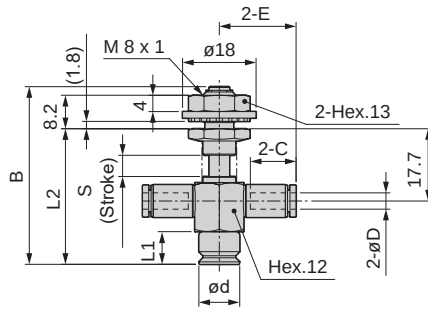


Unit: mm

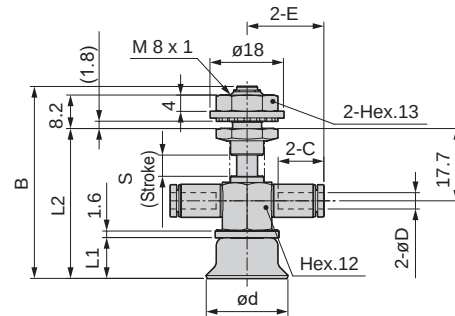
Model No.	Model No.	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10K*-4T	10	2.5	43.5	8	33.2	15.9	5.2	1.6 to 2.9	29
VSP-HD10K*-6T		4							
VSP-HD20K*-4T	20	2.5	47	10	36.7	15.9	5.2	1.6 to 2.9	36
VSP-HD20K*-6T		4							
VSP-HD30K*-4T	30	2.5	49	12	38.7	15.9	5.2	1.6 to 2.9	39
VSP-HD30K*-6T		4							
VSP-HD40K*-4T	40	2.5	53	16	42.7	15.9	5.2	1.6 to 2.9	46
VSP-HD40K*-6T		4							
VSP-HD50K*-4T	50	2.5	54	17	43.7	15.9	5.2	1.6 to 2.9	52
VSP-HD50K*-6T		4							

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW10K*-2/4/6



●VSP-HDW20 to 50K*-2/4/6

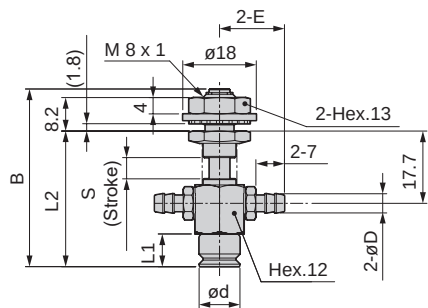


Unit: mm

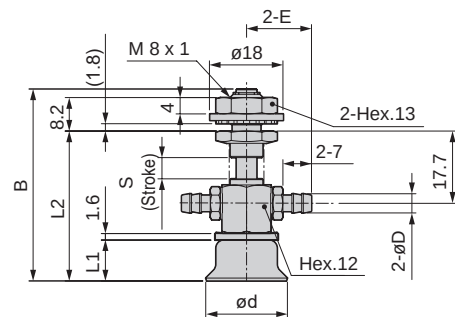
Model No.	Model No.	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10K*-2	10	1.8	43.5	8	33.2	8.4	14.7	5.2	1.6 to 2.9	33
VSP-HDW10K*-4		4				11.2	18.8			35
VSP-HDW10K*-6		6				11.9	20.6			37
VSP-HDW20K*-2	20	1.8	47	10	36.7	8.4	14.7	5.2	1.6 to 2.9	38
VSP-HDW20K*-4		4				11.2	18.8			40
VSP-HDW20K*-6		6				11.9	20.6			42
VSP-HDW30K*-2	30	1.8	49	12	38.7	8.4	14.7	5.2	1.6 to 2.9	41
VSP-HDW30K*-4		4				11.2	18.8			43
VSP-HDW30K*-6		6				11.9	20.6			45
VSP-HDW40K*-2	40	1.8	53	16	42.7	8.4	14.7	5.2	1.6 to 2.9	48
VSP-HDW40K*-4		4				11.2	18.8			50
VSP-HDW40K*-6		6				11.9	20.6			52
VSP-HDW50K*-2	50	1.8	54	17	43.7	8.4	14.7	5.2	1.6 to 2.9	54
VSP-HDW50K*-4		4				11.2	18.8			56
VSP-HDW50K*-6		6				11.9	20.6			58

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW10K*-4T/6T



●VSP-HDW20 to 50K*-4T/6T



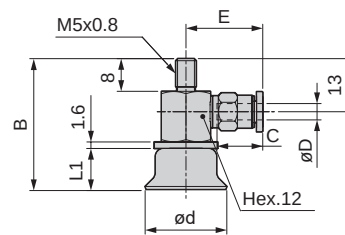
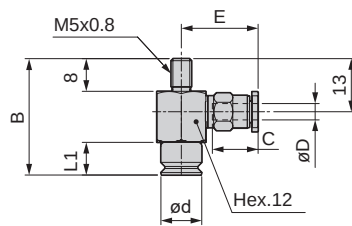
Unit: mm

Model No.	Model No.	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10K*-4T	10	2.5	43.5	8	33.2	15.9	5.2	1.6 to 2.9	32
VSP-HDW10K*-6T		4							
VSP-HDW20K*-4T	20	2.5	47	10	36.7	15.9	5.2	1.6 to 2.9	37
VSP-HDW20K*-6T		4							
VSP-HDW30K*-4T	30	2.5	49	12	38.7	15.9	5.2	1.6 to 2.9	40
VSP-HDW30K*-6T		4							
VSP-HDW40K*-4T	40	2.5	53	16	42.7	15.9	5.2	1.6 to 2.9	47
VSP-HDW40K*-6T		4							
VSP-HDW50K*-4T	50	2.5	54	17	43.7	15.9	5.2	1.6 to 2.9	53
VSP-HDW50K*-6T		4							

Dimensions (low back fixed, vacuum outlet side VSP-HE, push-in fitting)

●VSP-HE10K*-2/4/6

●VSP-HE20 to 50K*-2/4/6



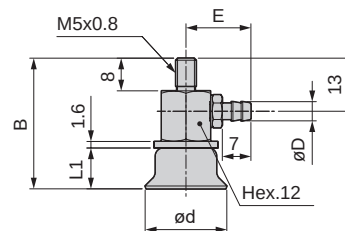
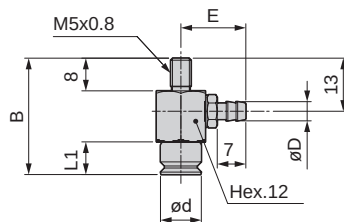
Unit: mm

Model No.	Model No.	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE10K*-2	10	1.8	28.5	8	8.4	14.7	17
VSP-HE10K*-4		4			11.2	18.8	18
VSP-HE10K*-6		6			11.9	20.6	19
VSP-HE20K*-2	20	1.8	32	10	8.4	14.7	22
VSP-HE20K*-4		4			11.2	18.8	23
VSP-HE20K*-6		6			11.9	20.6	24
VSP-HE30K*-2	30	1.8	34	12	8.4	14.7	25
VSP-HE30K*-4		4			11.2	18.8	26
VSP-HE30K*-6		6			11.9	20.6	27
VSP-HE40K*-2	40	1.8	38	16	8.4	14.7	32
VSP-HE40K*-4		4			11.2	18.8	33
VSP-HE40K*-6		6			11.9	20.6	34
VSP-HE50K*-2	50	1.8	39	17	8.4	14.7	38
VSP-HE50K*-4		4			11.2	18.8	39
VSP-HE50K*-6		6			11.9	20.6	40

Dimensions (low back fixed, vacuum outlet side VSP-HE, barbed fitting)

●VSP-HE10K*-4T/6T

●VSP-HE20 to 50K*-4T/6T



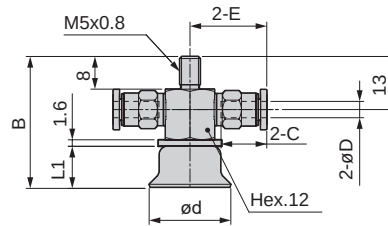
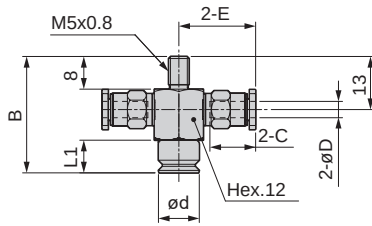
Unit: mm

Model No.	Model No.	Bore size øD	B	L	E	Weight (g)
VSP-HE10K*-4T	10	2.5	28.5	8	15.9	17
VSP-HE10K*-6T		4				
VSP-HE20K*-4T	20	2.5	32	10	15.9	21
VSP-HE20K*-6T		4				
VSP-HE30K*-4T	30	2.5	34	12	15.9	24
VSP-HE30K*-6T		4				
VSP-HE40K*-4T	40	2.5	38	16	15.9	31
VSP-HE40K*-6T		4				
VSP-HE50K*-4T	50	2.5	39	17	15.9	37
VSP-HE50K*-6T		4				

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, push-in fitting)

●VSP-HEW10K*-2/4/6

●VSP-HEW20 to 50K*-2/4/6



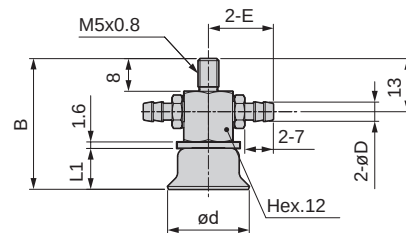
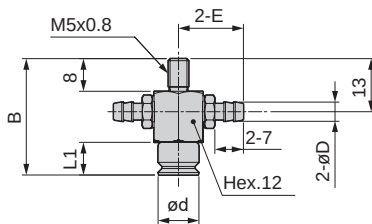
Unit: mm

Model No.	Model No.	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW10K*-2	10	1.8	28.5	8	8.4	14.7	19
VSP-HEW10K*-4		4			11.2	18.8	21
VSP-HEW10K*-6		6			11.9	20.6	23
VSP-HEW20K*-2	20	1.8	32	10	8.4	14.7	23
VSP-HEW20K*-4		4			11.2	18.8	25
VSP-HEW20K*-6		6			11.9	20.6	27
VSP-HEW30K*-2	30	1.8	34	12	8.4	14.7	26
VSP-HEW30K*-4		4			11.2	18.8	28
VSP-HEW30K*-6		6			11.9	20.6	30
VSP-HEW40K*-2	40	1.8	38	16	8.4	14.7	33
VSP-HEW40K*-4		4			11.2	18.8	35
VSP-HEW40K*-6		6			11.9	20.6	37
VSP-HEW50K*-2	50	1.8	39	17	8.4	14.7	39
VSP-HEW50K*-4		4			11.2	18.8	41
VSP-HEW50K*-6		6			11.9	20.6	43

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW10K*-4T/6T

●VSP-HEW20 to 50K*-4T/6T



Unit: mm

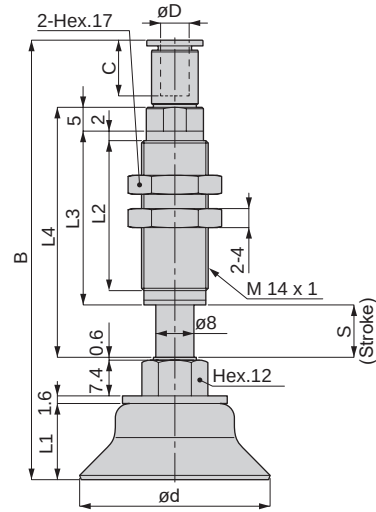
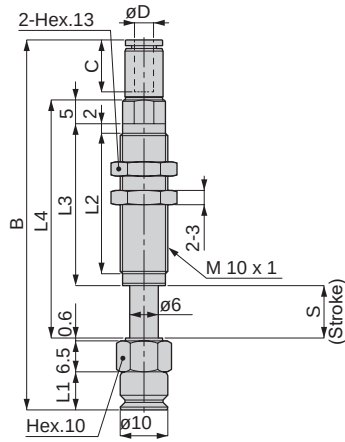
Model No.	Model No.	Bore size øD	B	L	E	Weight (g)
VSP-HEW10K*-4T	10	2.5	28.5	8	15.9	18
VSP-HEW10K*-6T		4				
VSP-HEW20K*-4T	20	2.5	32	10	15.9	22
VSP-HEW20K*-6T		4				
VSP-HEW30K*-4T	30	2.5	34	12	15.9	25
VSP-HEW30K*-6T		4				
VSP-HEW40K*-4T	40	2.5	38	16	15.9	32
VSP-HEW40K*-6T		4				
VSP-HEW50K*-4T	50	2.5	39	17	15.9	38
VSP-HEW50K*-6T		4				

VSP-*K* Series

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC10-□K*-4

●VSP-LFC20 to 50-□K*-4/6



Unit: mm

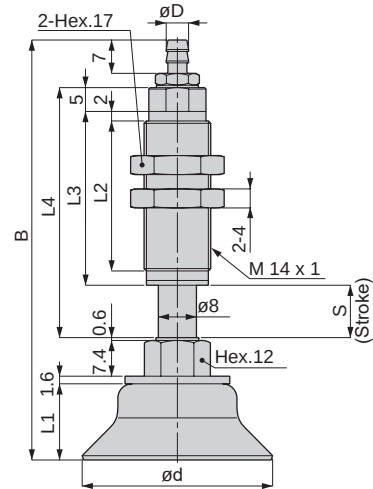
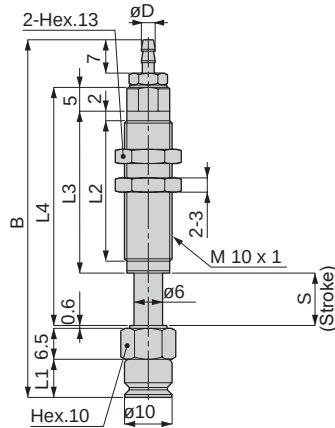
Model No.	Model No.	Bore size øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2K*-4	10	4	62.1	8	21.5	26	34	11.2	2	1.3 to 1.8	28
VSP-LFC10-5K*-4			68.1		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	30
VSP-LFC10-10K*-4			78.1		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	32
VSP-LFC10-15K*-4			88.1		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	34
VSP-LFC10-20K*-4			98.1		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	36
VSP-LFC20-5K*-4	20	4	75.1	10	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	57
VSP-LFC20-5K*-6		6	76.4		31.5	36.5	52.5	11.9	10	4.5 to 8.2 [1.13 to 2.05]	58
VSP-LFC20-10K*-4		4	85.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	59
VSP-LFC20-10K*-6		6	86.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	60
VSP-LFC20-15K*-4		4	95.1		41.5	46.5	72.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	62
VSP-LFC20-15K*-6		6	96.4					11.9	10	4.5 to 8.2 [1.13 to 2.05]	63
VSP-LFC20-20K*-4		4	105.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	65
VSP-LFC20-20K*-6		6	106.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	66
VSP-LFC30-5K*-4	30	4	77.1	12	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	60
VSP-LFC30-5K*-6		6	78.4		31.5	36.5	52.5	11.9	10	4.5 to 8.2 [1.13 to 2.05]	61
VSP-LFC30-10K*-4		4	87.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	62
VSP-LFC30-10K*-6		6	88.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	63
VSP-LFC30-15K*-4		4	97.1		41.5	46.5	72.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	65
VSP-LFC30-15K*-6		6	98.4					11.9	10	4.5 to 8.2 [1.13 to 2.05]	66
VSP-LFC30-20K*-4		4	107.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	68
VSP-LFC30-20K*-6		6	108.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	69
VSP-LFC40-5K*-4	40	4	81.1	16	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	69
VSP-LFC40-5K*-6		6	82.4		31.5	36.5	52.5	11.9	10	4.5 to 8.2 [1.13 to 2.05]	70
VSP-LFC40-10K*-4		4	91.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	71
VSP-LFC40-10K*-6		6	92.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	72
VSP-LFC40-15K*-4		4	101.1		41.5	46.5	72.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	74
VSP-LFC40-15K*-6		6	102.4					11.9	10	4.5 to 8.2 [1.13 to 2.05]	75
VSP-LFC40-20K*-4		4	111.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	77
VSP-LFC40-20K*-6		6	112.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	78
VSP-LFC50-5K*-4	50	4	82.1	17	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	76
VSP-LFC50-5K*-6		6	83.4		31.5	36.5	52.5	11.9	10	4.5 to 8.2 [1.13 to 2.05]	77
VSP-LFC50-10K*-4		4	92.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	78
VSP-LFC50-10K*-6		6	93.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	79
VSP-LFC50-15K*-4		4	102.1		41.5	46.5	72.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	81
VSP-LFC50-15K*-6		6	103.4					11.9	10	4.5 to 8.2 [1.13 to 2.05]	82
VSP-LFC50-20K*-4		4	112.1					11.2	15	4.5 to 9.9 [1.13 to 2.48]	84
VSP-LFC50-20K*-6		6	113.4					11.9	20	4.5 to 14.9 [1.13 to 3.73]	85

*1: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, barbed fitting)

●VSP-LFC10-□K*-4T/6T

●VSP-LFC20 to 50-□K*-4T/6T



Unit: mm										
Model No.	Model No.	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2K*-4T	10	2.5	59.2	8	21.5	26	34	2	1.3 to 1.8	26
VSP-LFC10-2K*-6T		4								
VSP-LFC10-5K*-4T		2.5	65.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	28
VSP-LFC10-5K*-6T		4								
VSP-LFC10-10K*-4T		2.5	75.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	30
VSP-LFC10-10K*-6T		4								
VSP-LFC10-15K*-4T		2.5	85.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	32
VSP-LFC10-15K*-6T		4								
VSP-LFC10-20K*-4T		2.5	95.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	34
VSP-LFC10-20K*-6T		4								
VSP-LFC20-5K*-4T	20	2.5	72.2	10	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	52
VSP-LFC20-5K*-6T		4								
VSP-LFC20-10K*-4T		2.5	82.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	54
VSP-LFC20-10K*-6T		4								
VSP-LFC20-15K*-4T		2.5	92.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	57
VSP-LFC20-15K*-6T		4								
VSP-LFC20-20K*-4T		2.5	102.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	60
VSP-LFC20-20K*-6T		4								
VSP-LFC30-5K*-4T	30	2.5	74.2	12	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	55
VSP-LFC30-5K*-6T		4								
VSP-LFC30-10K*-4T		2.5	84.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	57
VSP-LFC30-10K*-6T		4								
VSP-LFC30-15K*-4T		2.5	94.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	60
VSP-LFC30-15K*-6T		4								
VSP-LFC30-20K*-4T		2.5	104.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	63
VSP-LFC30-20K*-6T		4								
VSP-LFC40-5K*-4T	40	2.5	78.2	16	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	64
VSP-LFC40-5K*-6T		4								
VSP-LFC40-10K*-4T		2.5	88.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	66
VSP-LFC40-10K*-6T		4								
VSP-LFC40-15K*-4T		2.5	98.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	69
VSP-LFC40-15K*-6T		4								
VSP-LFC40-20K*-4T		2.5	108.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	72
VSP-LFC40-20K*-6T		4								
VSP-LFC50-5K*-4T	50	2.5	79.2	17	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	71
VSP-LFC50-5K*-6T		4								
VSP-LFC50-10K*-4T		2.5	89.2		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	73
VSP-LFC50-10K*-6T		4								
VSP-LFC50-15K*-4T		2.5	99.2		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	76
VSP-LFC50-15K*-6T		4								
VSP-LFC50-20K*-4T		2.5	109.2		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	78
VSP-LFC50-20K*-6T		4								

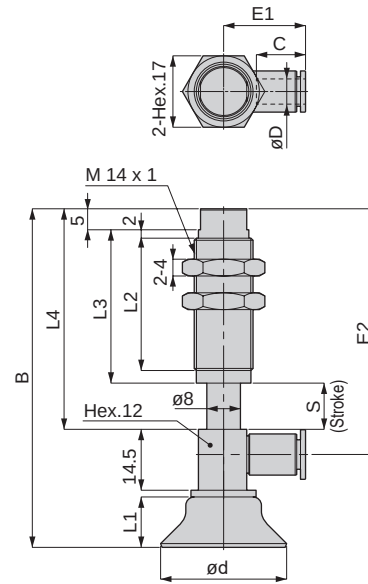
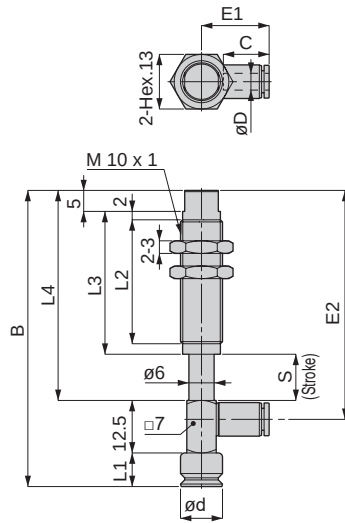
*1: Values in [] are for low load.

VSP-*K* Series

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, push-in fitting)

●VSP-LFD10-□K*-4

●VSP-LFD20 to 50-□K*-4/6



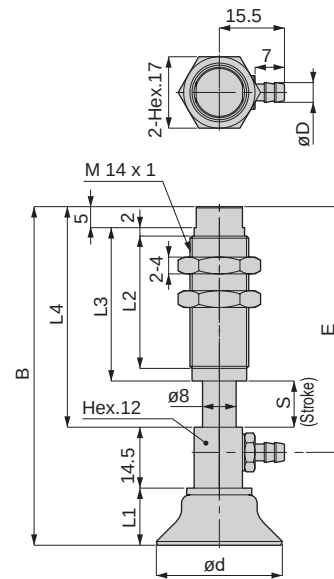
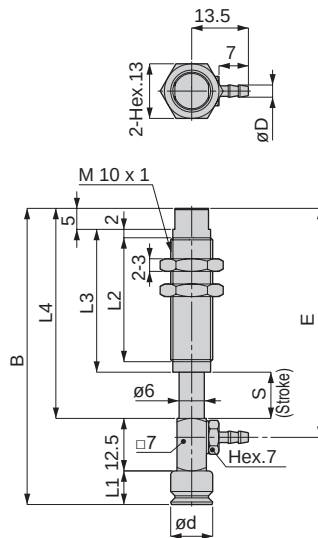
Unit: mm

Model No.	Model No.	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5K*-4	10	4	60.5	8	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	26
VSP-LFD10-10K*-4			70.5		29.5	34	50			54.5	10	1.3 to 3.3	28
VSP-LFD10-15K*-4			80.5		34.5	39	60			64.5	15	1.3 to 4.2	30
VSP-LFD10-20K*-4			90.5		39.5	44	70			74.5	20	1.3 to 5.1	32
VSP-LFD20-5K*-4	20	4	68.5	10	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	58
VSP-LFD20-5K*-6		6						11.9	19.7				59
VSP-LFD20-10K*-4		4	78.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	62
VSP-LFD20-10K*-6		6						11.9	19.7				63
VSP-LFD20-15K*-4		4	88.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	66
VSP-LFD20-15K*-6		6						11.9	19.7				67
VSP-LFD20-20K*-4		4	98.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	70
VSP-LFD20-20K*-6		6						11.9	19.7				71
VSP-LFD30-5K*-4	30	4	70.5	12	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	61
VSP-LFD30-5K*-6		6						11.9	19.7				62
VSP-LFD30-10K*-4		4	80.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	65
VSP-LFD30-10K*-6		6						11.9	19.7				66
VSP-LFD30-15K*-4		4	90.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	69
VSP-LFD30-15K*-6		6						11.9	19.7				70
VSP-LFD30-20K*-4		4	100.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	73
VSP-LFD30-20K*-6		6						11.9	19.7				74
VSP-LFD40-5K*-4	40	4	74.5	16	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	70
VSP-LFD40-5K*-6		6						11.9	19.7				71
VSP-LFD40-10K*-4		4	84.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	74
VSP-LFD40-10K*-6		6						11.9	19.7				75
VSP-LFD40-15K*-4		4	94.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	78
VSP-LFD40-15K*-6		6						11.9	19.7				79
VSP-LFD40-20K*-4		4	104.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	82
VSP-LFD40-20K*-6		6						11.9	19.7				83
VSP-LFD50-5K*-4	50	4	75.5	17	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	77
VSP-LFD50-5K*-6		6						11.9	19.7				78
VSP-LFD50-10K*-4		4	85.5		31.5	36.5	52.5	11.2	18.4	58.5	10	4.5 to 8.2	81
VSP-LFD50-10K*-6		6						11.9	19.7				82
VSP-LFD50-15K*-4		4	95.5		36.5	41.5	62.5	11.2	18.4	68.5	15	4.5 to 9.9	85
VSP-LFD50-15K*-6		6						11.9	19.7				86
VSP-LFD50-20K*-4		4	105.5		41.5	46.5	72.5	11.2	18.4	78.5	20	4.5 to 14.9	89
VSP-LFD50-20K*-6		6						11.9	19.7				90

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD10-□K*-4T/6T

●VSP-LFD20 to 50-□K*-4T/6T



Unit: mm

Model No.	Model No.	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5K*-4T	10	2.5	60.5	8	24.5	29	40	44.5	5	1.3 to 2.4	25
VSP-LFD10-5K*-6T		4									
VSP-LFD10-10K*-4T		2.5	70.5		29.5	34	50	54.5	10	1.3 to 3.3	27
VSP-LFD10-10K*-6T		4									
VSP-LFD10-15K*-4T		2.5	80.5		34.5	39	60	64.5	15	1.3 to 4.2	29
VSP-LFD10-15K*-6T		4									
VSP-LFD10-20K*-4T		2.5	90.5		39.5	44	70	74.5	20	1.3 to 5.1	31
VSP-LFD10-20K*-6T		4									
VSP-LFD20-5K*-4T	20	2.5	68.5	10	26.5	31.5	42.5	48.5	5	4.5 to 6.5	54
VSP-LFD20-5K*-6T		4									
VSP-LFD20-10K*-4T		2.5	78.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	57
VSP-LFD20-10K*-6T		4									
VSP-LFD20-15K*-4T		2.5	88.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	61
VSP-LFD20-15K*-6T		4									
VSP-LFD20-20K*-4T		2.5	98.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	65
VSP-LFD20-20K*-6T		4									
VSP-LFD30-5K*-4T	30	2.5	70.5	12	26.5	31.5	42.5	48.5	5	4.5 to 6.5	57
VSP-LFD30-5K*-6T		4									
VSP-LFD30-10K*-4T		2.5	80.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	60
VSP-LFD30-10K*-6T		4									
VSP-LFD30-15K*-4T		2.5	90.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	64
VSP-LFD30-15K*-6T		4									
VSP-LFD30-20K*-4T		2.5	100.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	68
VSP-LFD30-20K*-6T		4									
VSP-LFD40-5K*-4T	40	2.5	74.5	16	26.5	31.5	42.5	48.5	5	4.5 to 6.5	66
VSP-LFD40-5K*-6T		4									
VSP-LFD40-10K*-4T		2.5	84.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	69
VSP-LFD40-10K*-6T		4									
VSP-LFD40-15K*-4T		2.5	94.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	73
VSP-LFD40-15K*-6T		4									
VSP-LFD40-20K*-4T		2.5	104.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	77
VSP-LFD40-20K*-6T		4									
VSP-LFD50-5K*-4T	50	2.5	75.5	17	26.5	31.5	42.5	48.5	5	4.5 to 6.5	73
VSP-LFD50-5K*-6T		4									
VSP-LFD50-10K*-4T		2.5	85.5		31.5	36.5	52.5	58.5	10	4.5 to 8.2	76
VSP-LFD50-10K*-6T		4									
VSP-LFD50-15K*-4T		2.5	95.5		36.5	41.5	62.5	68.5	15	4.5 to 9.9	80
VSP-LFD50-15K*-6T		4									
VSP-LFD50-20K*-4T		2.5	105.5		41.5	46.5	72.5	78.5	20	4.5 to 14.9	84
VSP-LFD50-20K*-6T		4									

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

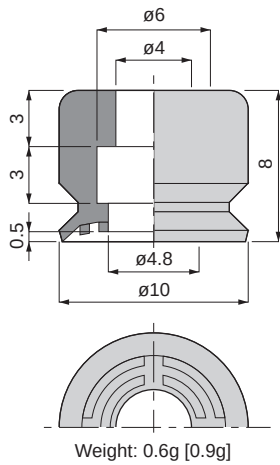
Flat

Suction mark
prevention

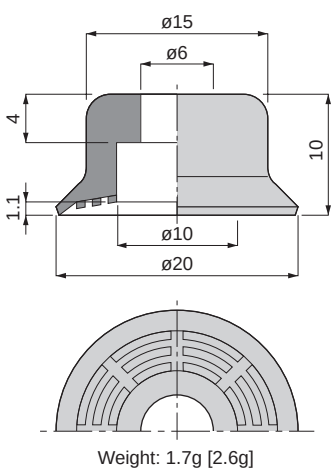
VSPG-*K* Series

Dimensions: pad only

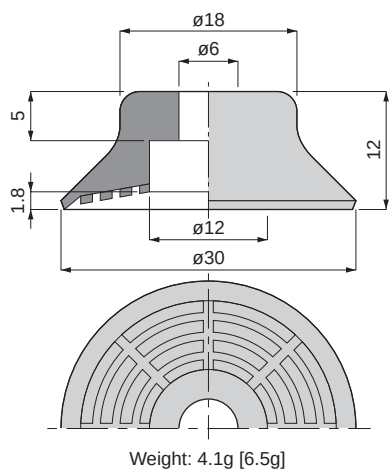
●VSPG-10K*



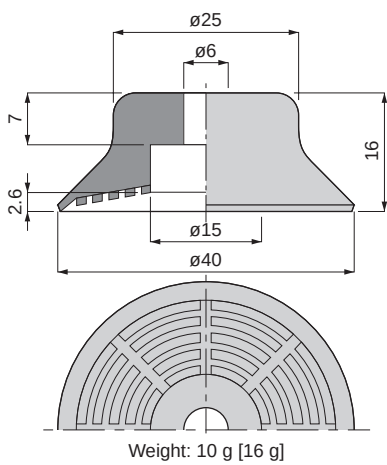
●VSPG-20K*



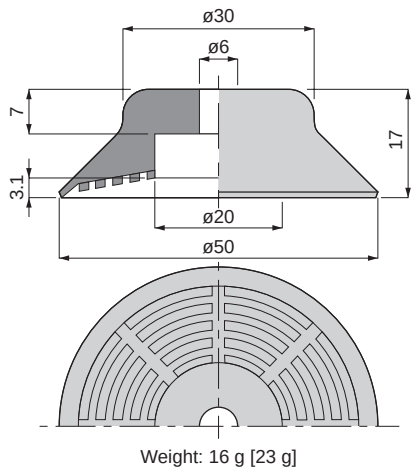
●VSPG-30K*



●VSPG-40K*



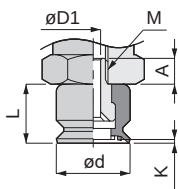
●VSPG-50K*



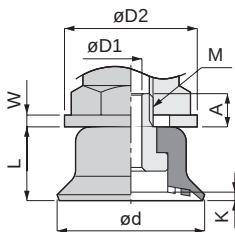
Note: Values in [] for fluoro rubber only.

Detailed view of pad and holder connection

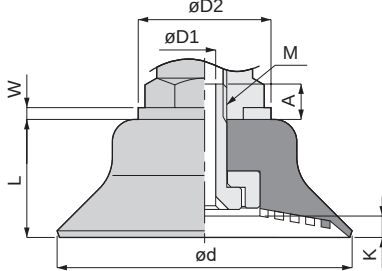
●VSPG-10K*



●VSPG-20,30K*



●VSPG-40,50K*



Unit: mm

Model No.	Model No.	L	Lip internal height K	Fixing screw M	A	$\varnothing D1$	$\varnothing D2$	W
VSPG-10K*	10	8	0.5	M4x0.7	3.5	2	-	-
VSPG-20K*	20	10	1.1	M6x1	4.5	3	18	1.6
VSPG-30K*	30	12	1.8	M6x1	5.5	3	18	1.6
VSPG-40K*	40	16	2.6	M6x1	5.3	3	22	1.6
VSPG-50K*	50	17	3.1	M6x1	5.3	3	22	1.6

Suction pad	General/Deep/ Compact	Sponge	Bellows	Multi-stage bellows	Oval	Soft	Soft bellows	Anti-slip	Thin object	Flat	Suction mark prevention
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Suction pad, thin object type

VSP-*P* Series

Suction pad with thin lip and no rib structure that emphasizes adhesion to the workpiece



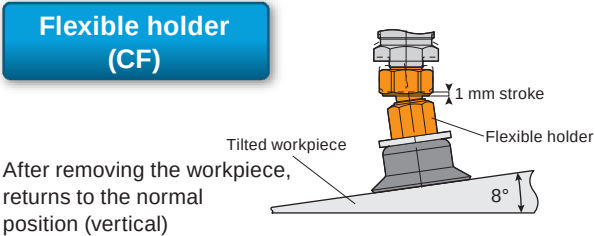
Ideal for thin workpieces such as copy paper and vinyl
The soft pad lips make it harder for workpieces to wrinkle and reduce overlap suction (2-sheet removal)

A wide range of holder variations

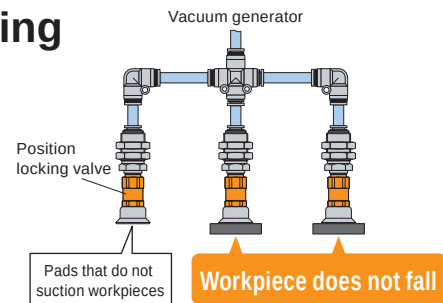
Shape	17types	Piping	6types	Stroke	10types
●Standard: 6 ●Compact: 5-types ●Low dust generation: 2 types	●Lightweight:2 types ●Low: Two types	●Push-in fitting(ø1.8 to ø6): 3 types ●Barbed fitting(ø4, ø6): 2 types ●Screw-in(M5): 1 type		2 mm to 50 mm (Depends on the pad size and holder)	

Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding.

Supports options for track (flexible holder) on a workpiece surface with an angle.



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



Pad surface treatment (option) is available for special treatment to reduce suction marks

	-DL	-ER	-FG
	Anti-sticking	Reduced suction marks	Fluorine coating
Surface-treated			
Compatible materials	silicone Fluorine Conductive silicone	Nitriles Nitrile conductive NBR	silicone Conductive silicone super-soft silicone
Features	Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

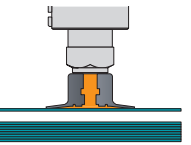
VSP-*P* Series

Pad shape



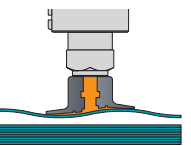
2 sheet reduction

There is no rib on the lip surface and the pad adheres closely to the workpiece during suction. At this time, the effective adsorption area becomes small, and it becomes difficult to lift the second sheet.



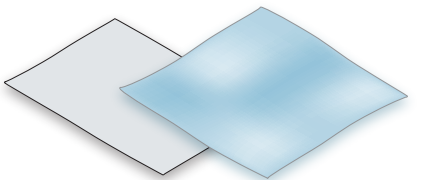
Ideal for thin workpieces

The absence of ribs adheres to the workpiece to prevent deformation. In addition, thin lips are good for waving workpieces. track.



Recommended workpiece

Thin workpieces such as sheets and vinyl



Pad diameter

4 types	8	10	15	20
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Pad material

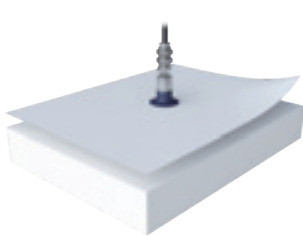
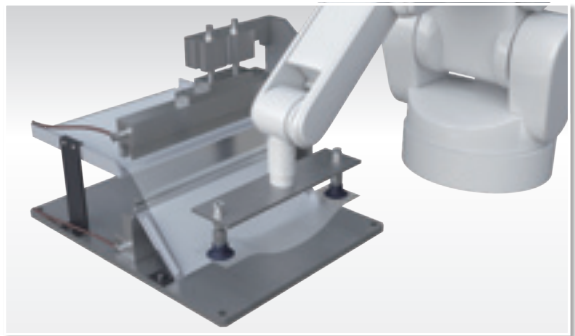
6 types	NitoriK	silicone	Urethane	Fluorine	Conductive NBR (low resistance)	fluorosilicone
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* Silicone (S) is compatible with the Food Sanitation Act. (holder is not supported/suction pad is compatible only with workpiece contact part)

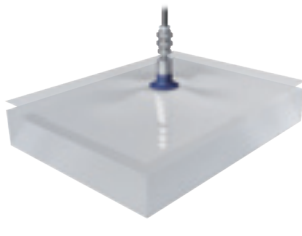
Solution examples

Thin workpieces

Reduces the two-sheet removal of thin workpieces such as film and permeable workpieces such as paper drawing paper.



Permeable workpieces such as paper drawing paper



Thin workpieces such as film

How to order

●Thin object type

Suction pad

VSP

Model No.

ME

1

Holder Shape

20

2

Pad diameter

3

Stroke option

P

4

Pad shape

N

5

Pad material

-ER

6

Surface Treatment

M5

7

Port size/ Shape

8

Buffer Load

CF

9

Pad Swinging

V

10

Drop Prevention valve

Pad rubber only

VSPG

Model No.

20

2

Pad diameter

P

4

Pad shape

N

5

Pad material

-ER

6

Surface Treatment

1 Holder type

With/without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact		MA	
	Standard	Lateral direction	B	
	Compact		MB	
	Low height	Both lateral directions	HE	
			HEW	
Buffer type	Standard	Upward direction	E	
	Compact		MC	
	Low dust generation		LFC	
	Standard	Lateral direction	D	
	Compact		MD	
	Low dust generation		LFD	
	Lightweight	Both lateral directions	HD	
			HDW	
	Standard	Direct mounting	F	

2 Pad diameter

Code	Description
8	ø8
10	ø10
15	ø15
20	ø20

3 Stroke option

Description	Holder type				Code
	C	D	LFC	LFD	
Specified stroke or without buffer	●	●			Blank
Stroke 2 mm			●		-2
Stroke 5 mm			●	●	-5
Stroke 10 mm	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	-20
Stroke 30 mm	●	●			-30
Stroke 40 mm	●	●			-40
Stroke 50 mm	●	●			-50

*1: 1 Other than C, D, LFC, LFD, 3 is blank.
*2: 3 For blank designated strokes, check the stroke dimensions with the O.D. dimensions.

4 Pad shape

Code	Description	
P	Thin object type	

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
U	Urethane rubber
F	Fluoro rubber
FS	Fluorosilicone rubber
NE	Conductive NBR (low resistance)

6 Surface-treated

Description	Compatible pad material				Supported pad diameter	Code
	N	S	F	NE		
No surface treatment					For thin objects (P)	Blank
Anti-stick special coating		●	●		All sizes	-DL
Suction mark reduction surface modification	●			●	All sizes	-ER
Fluorine coating		●			All sizes	-FG

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

7 Port size/shape

Description	Holder type														Code	
	A	B	C	D	MA	MB	MC	MD	ME	LFC	LFD	HD	HDW	HE	HEW	
(1: For E and F)																Blank
ø1.8 push-in fitting		●	●	●	●	●	●	●				●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	4
ø6 push-in fitting	●	●	●	●		●		●		●	●	●	●	●	●	6
ø4 Push-in fitting, without spring cover			●	●												4C
ø6 Push-in fitting, without spring cover			●	●												6C
ø4 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●		●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●												4TC
ø6 Barbed fitting, without spring cover			●	●												6TC
M5X0.8									●							M5

*1: 1 C, D 3 -20 up-For 50, 7 4C, 6C, 4TC, 6TC can be selected.
*2: 1 C 3 Blank indicates 7 Only 2, 4, 4T, 6T can be selected.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1: 1 With the exception of LFC, 3 is blank.
*2: 3 For -2, 8 is blank.

9 Swiveling pad

Code	Description	
Blank	None	
CF	Flexible With holder angle ° 8 *1	

*1: 1 For E and ME, 9 CF can be selected.

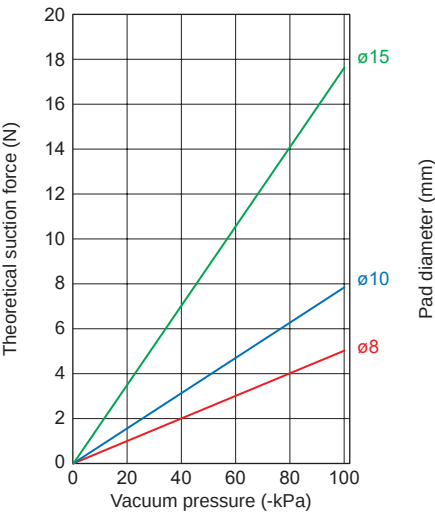
10 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve *1	

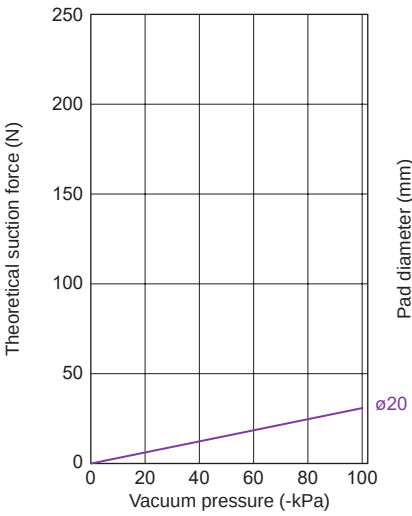
*1: 1 For E and ME, 10 V can be selected.

Theoretical suction force

●Pad diameter: ø8 mm to 15 mm



●Pad diameter: ø20 mm



For thin object type suction force, it may not be possible to secure the calculated suction force (theoretical suction force x safety factor) due to the effect of pad characteristics such as degree of vacuum/pad material/suctioned object.
When selecting with suction force obtained by the “Selection method for suction pad” (page 288) as a guideline, confirm that there is no problem in the suction performance of the actual device.

Suction pad

General/Deep/
Compact

Sponge

Bellows

Multi-stage
bellows

Oval

Soft

Soft
bellows

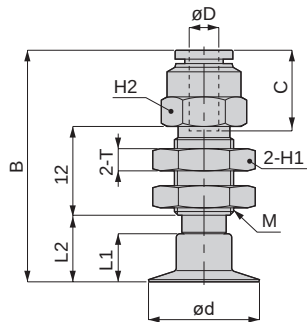
Anti-slip

Thin
object

Flat

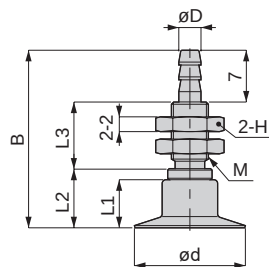
Suction mark
prevention

●VSP-A8 to 20P*-4/6



Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	T	Weight (g)
VSP-A8P*-4	8	4	M 8 x 0.75	30.6	5.5	8	11.2	10	8	2	10.2
VSP-A8P*-6		6	M 10 x 1	31.3			11.9	12	10	3	13.8
VSP-A10P*-4	10	4	M 8 x 0.75	30.9	5.8	8.3	11.2	10	8	2	10.3
VSP-A10P*-6		6	M 10 x 1	31.6			11.9	12	10	3	13.9
VSP-A15P*-4	15	4	M 8 x 0.75	31.6	6.5	9	11.2	10	8	2	10.4
VSP-A15P*-6		6	M 10 x 1	32.3			11.9	12	10	3	14
VSP-A20P*-4	20	4	M 8 x 0.75	32.4	7.3	9.8	11.2	10	8	2	10.5
VSP-A20P*-6		6	M 10 x 1	33.1			11.9	12	10	3	14.1

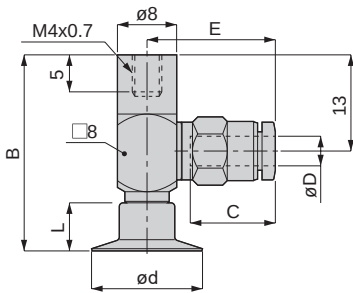
●VSP-A8 to 20P*-4T/6T



Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	Hexagon H	Weight (g)
VSP-A8P*-4T	8	2.5	M 5 x 0.5	23	5.5	7	9	8	3.2
VSP-A8P*-6T		4	M 8 x 0.75	24.5			10.5	10	14
VSP-A10P*-4T	10	2.5	M 5 x 0.5	23.3	5.8	7.3	9	8	3.2
VSP-A10P*-6T		4	M 8 x 0.75	24.8			10.5	10	14
VSP-A15P*-4T	15	2.5	M 5 x 0.5	24	6.5	8	9	8	3.3
VSP-A15P*-6T		4	M 8 x 0.75	25.5			10.5	10	14
VSP-A20P*-4T	20	2.5	M 5 x 0.5	24.8	7.3	8.8	9	8	3.4
VSP-A20P*-6T		4	M 8 x 0.75	26.3			10.5	10	14

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

●VSP-B8 to 20P*-2/4/6

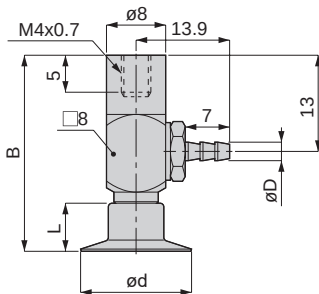


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B8P*-2	8	1.8	25.5	5.5	8.4	12.7	12
VSP-B8P*-4		4			11.2	16.8	13
VSP-B8P*-6		6			11.9	18.6	14
VSP-B10P*-2	10	1.8	25.8	5.8	8.4	12.7	12
VSP-B10P*-4		4			11.2	16.8	13
VSP-B10P*-6		6			11.9	18.6	14
VSP-B15P*-2	15	1.8	26.5	6.5	8.4	12.7	12
VSP-B15P*-4		4			11.2	16.8	13
VSP-B15P*-6		6			11.9	18.6	14
VSP-B20P*-2	20	1.8	27.3	7.3	8.4	12.7	12
VSP-B20P*-4		4			11.2	16.8	13
VSP-B20P*-6		6			11.9	18.6	14

Dimensions (fixed, vacuum outlet side VSP-B, barbed fitting)

●VSP-B8 to 20P*-4T/6T



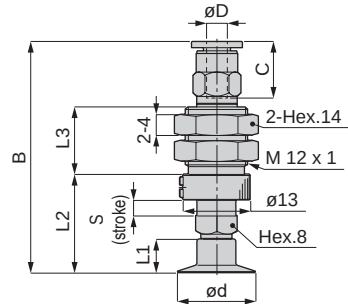
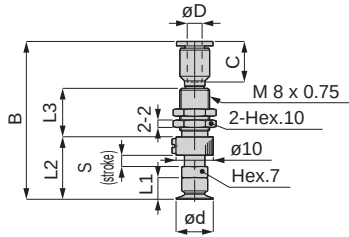
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-B8P*-4T	8	2.5	25.5	5.5	10
VSP-B8P*-6T		4			
VSP-B10P*-4T	10	2.5	25.8	5.8	10
VSP-B10P*-6T		4			
VSP-B15P*-4T	15	2.5	26.5	6.5	10
VSP-B15P*-6T		4			
VSP-B20P*-4T	20	2.5	27.3	7.3	10
VSP-B20P*-6T		4			

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

●VSP-C8 to 20P*-2/4/6

●VSP-C8 to 20-□P*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C8P*-2	8	1.8	39.2	5.5	16.5	13	8.4	3	0.9 to 1.9	8
VSP-C8P*-4		4	42.5				11.2			9
VSP-C8-10P*-2		1.8	51.4		25	17.5	8.4	10	0.8 to 2.7	21
VSP-C8-10P*-4		4	55.5				11.2			22
VSP-C8-10P*-6		6	57.3				11.9			23
VSP-C8-15P*-2		1.8	62.4		30	23.5	8.4	15	0.7 to 3.0	25
VSP-C8-15P*-4		4	66.5				11.2			26
VSP-C8-15P*-6		6	68.3				11.9			27
VSP-C8-20P*-2		1.8	72.4		35	28.5	8.4	20	0.9 to 3.4	27
VSP-C8-20P*-4		4	76.5				11.2			28
VSP-C8-20P*-6		6	78.3				11.9			29
VSP-C10P*-2	10	1.8	39.5	5.8	16.8	13	8.4	3	0.9 to 1.9	8
VSP-C10P*-4		4	42.8				11.2			9
VSP-C10-10P*-2		1.8	51.7		25.3	17.5	8.4	10	0.8 to 2.7	21
VSP-C10-10P*-4		4	55.8				11.2			22
VSP-C10-10P*-6		6	57.6				11.9			23
VSP-C10-15P*-2		1.8	62.7		30.3	23.5	8.4	15	0.7 to 3.0	25
VSP-C10-15P*-4		4	66.8				11.2			26
VSP-C10-15P*-6		6	68.6				11.9			27
VSP-C10-20P*-2		1.8	72.7		35.3	28.5	8.4	20	0.9 to 3.4	27
VSP-C10-20P*-4		4	76.8				11.2			28
VSP-C10-20P*-6		6	78.6				11.9			29
VSP-C15P*-2	15	1.8	40.2	6.5	17.5	13	8.4	3	0.9 to 1.9	8
VSP-C15P*-4		4	43.5				11.2			9
VSP-C15-10P*-2		1.8	52.4		26	17.5	8.4	10	0.8 to 2.7	21
VSP-C15-10P*-4		4	56.5				11.2			22
VSP-C15-10P*-6		6	58.3				11.9			23
VSP-C15-15P*-2		1.8	63.4		31	23.5	8.4	15	0.7 to 3.0	25
VSP-C15-15P*-4		4	67.5				11.2			26
VSP-C15-15P*-6		6	69.3				11.9			27
VSP-C15-20P*-2		1.8	73.4		36	28.5	8.4	20	0.9 to 3.4	27
VSP-C15-20P*-4		4	77.5				11.2			28
VSP-C15-20P*-6		6	79.3				11.9			29
VSP-C20P*-2	20	1.8	41	7.3	18.3	13	8.4	3	0.9 to 1.9	8
VSP-C20P*-4		4	44.3				11.2			9
VSP-C20-10P*-2		1.8	53.2		26.8	17.5	8.4	10	0.8 to 2.7	21
VSP-C20-10P*-4		4	57.3				11.2			22
VSP-C20-10P*-6		6	59.1				11.9			23
VSP-C20-15P*-2		1.8	64.2		31.8	23.5	8.4	15	0.7 to 3.0	25
VSP-C20-15P*-4		4	68.3				11.2			26
VSP-C20-15P*-6		6	70.1				11.9			27
VSP-C20-20P*-2		1.8	74.2		36.8	28.5	8.4	20	0.9 to 3.4	27
VSP-C20-20P*-4		4	78.3				11.2			28
VSP-C20-20P*-6		6	80.1				11.9			29

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bel lows

Oval

Soft

Soft
bel lows

Anti-slip

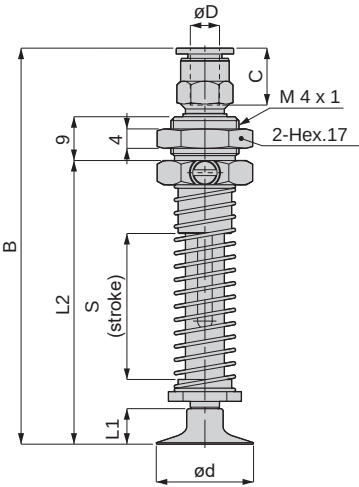
Thin
object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C8 to 20-□P*-4C/6C

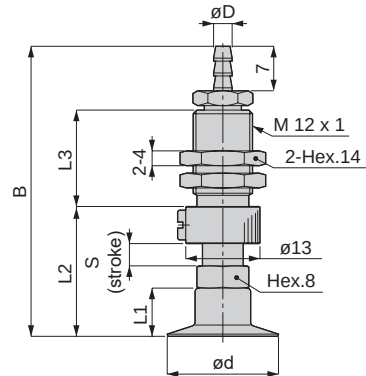
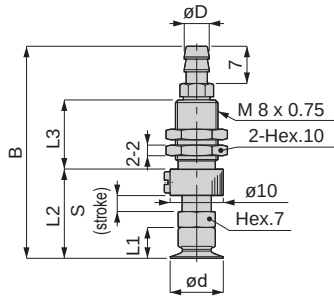


Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C8-20P*-4C	8	4	65.5	5.5	43.5	11.2	20	1.5 to 4.9	43
VSP-C8-20P*-6C		6	66.8			11.9			44
VSP-C8-30P*-4C		4	78.5		56.5	11.2	30	1.1 to 4.8	48
VSP-C8-30P*-6C		6	79.8			11.9			49
VSP-C8-40P*-4C		4	91.5		69.5	11.2	40	1.0 to 4.5	54
VSP-C8-40P*-6C		6	92.8			11.9			55
VSP-C8-50P*-4C		4	104.5		82.5	11.2	50	0.9 to 4.5	59
VSP-C8-50P*-6C		6	105.8			11.9			60
VSP-C10-20P*-4C	10	4	65.8	5.8	43.8	11.2	20	1.5 to 4.9	43
VSP-C10-20P*-6C		6	67.1			11.9			44
VSP-C10-30P*-4C		4	78.8		56.8	11.2	30	1.1 to 4.8	48
VSP-C10-30P*-6C		6	80.1			11.9			49
VSP-C10-40P*-4C		4	91.8		69.8	11.2	40	1.0 to 4.5	54
VSP-C10-40P*-6C		6	93.1			11.9			55
VSP-C10-50P*-4C		4	104.8		82.8	11.2	50	0.9 to 4.5	59
VSP-C10-50P*-6C		6	106.1			11.9			60
VSP-C15-20P*-4C	15	4	66.5	6.5	44.5	11.2	20	1.5 to 4.9	43
VSP-C15-20P*-6C		6	67.8			11.9			44
VSP-C15-30P*-4C		4	79.5		57.5	11.2	30	1.1 to 4.8	48
VSP-C15-30P*-6C		6	80.8			11.9			49
VSP-C15-40P*-4C		4	92.5		70.5	11.2	40	1.0 to 4.5	54
VSP-C15-40P*-6C		6	93.8			11.9			55
VSP-C15-50P*-4C		4	105.5		83.5	11.2	50	0.9 to 4.5	59
VSP-C15-50P*-6C		6	106.8			11.9			60
VSP-C20-20P*-4C	20	4	67.3	7.3	45.3	11.2	20	1.5 to 4.9	43
VSP-C20-20P*-6C		6	68.6			11.9			44
VSP-C20-30P*-4C		4	80.3		58.3	11.2	30	1.1 to 4.8	48
VSP-C20-30P*-6C		6	81.6			11.9			49
VSP-C20-40P*-4C		4	93.3		71.3	11.2	40	1.0 to 4.5	54
VSP-C20-40P*-6C		6	94.6			11.9			55
VSP-C20-50P*-4C		4	106.3		84.3	11.2	50	0.9 to 4.5	59
VSP-C20-50P*-6C		6	107.6			11.9			60

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

●VSP-C8 to 20P*-4T/6T

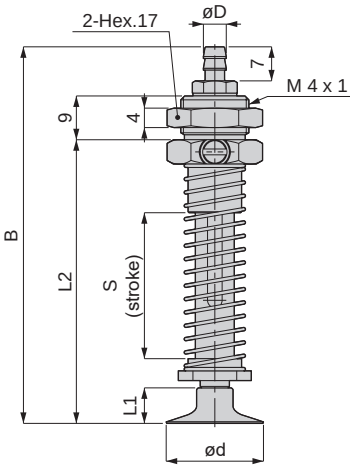
●VSP-C8 to 20-□P*-4T/6T



Unit: mm									
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C8P*-4T	8	2.5	39.1	5.5	16.5	13	3	0.9 to 1.9	8
VSP-C8P*-6T		4							
VSP-C8-10P*-4T		2.5	52.6		25	17.5	10	0.8 to 2.7	21
VSP-C8-10P*-6T		4							
VSP-C8-15P*-4T		2.5	63.6		30	23.5	15	0.7 to 3.0	25
VSP-C8-15P*-6T		4							
VSP-C8-20P*-4T		2.5	73.6		35	28.5	20	0.9 to 3.4	27
VSP-C8-20P*-6T		4							
VSP-C10P*-4T	10	2.5	39.4	5.8	16.8	13	3	0.9 to 1.9	8
VSP-C10P*-6T		4							
VSP-C10-10P*-4T		2.5	52.9		25.3	17.5	10	0.8 to 2.7	21
VSP-C10-10P*-6T		4							
VSP-C10-15P*-4T		2.5	63.9		30.3	23.5	15	0.7 to 3.0	25
VSP-C10-15P*-6T		4							
VSP-C10-20P*-4T		2.5	73.9		35.3	28.5	20	0.9 to 3.4	27
VSP-C10-20P*-6T		4							
VSP-C15P*-4T	15	2.5	40.1	6.5	17.5	13	3	0.9 to 1.9	8
VSP-C15P*-6T		4							
VSP-C15-10P*-4T		2.5	53.6		26	17.5	10	0.8 to 2.7	21
VSP-C15-10P*-6T		4							
VSP-C15-15P*-4T		2.5	64.6		31	23.5	15	0.7 to 3.0	25
VSP-C15-15P*-6T		4							
VSP-C15-20P*-4T		2.5	74.6		36	28.5	20	0.9 to 3.4	27
VSP-C15-20P*-6T		4							
VSP-C20P*-4T	20	2.5	40.9	7.3	18.3	13	3	0.9 to 1.9	8
VSP-C20P*-6T		4							
VSP-C20-10P*-4T		2.5	54.4		26.8	17.5	10	0.8 to 2.7	21
VSP-C20-10P*-6T		4							
VSP-C20-15P*-4T		2.5	65.4		31.8	23.5	15	0.7 to 3.0	25
VSP-C20-15P*-6T		4							
VSP-C20-20P*-4T		2.5	75.4		36.8	28.5	20	0.9 to 3.4	27
VSP-C20-20P*-6T		4							

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C8 to 20-□P*-4TC/6TC

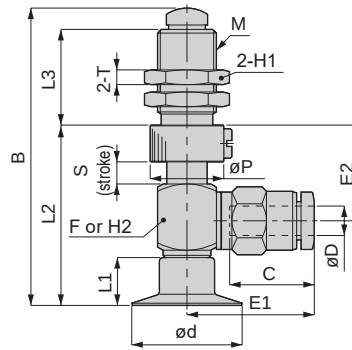


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C8-20P*-4TC	8	2.5	62.6	5.5	43.5	20	1.5 to 4.9	42
VSP-C8-20P*-6TC		4						
VSP-C8-30P*-4TC		2.5	75.6		56.5	30	1.1 to 4.8	47
VSP-C8-30P*-6TC		4						
VSP-C8-40P*-4TC		2.5	88.6		69.5	40	1.0 to 4.5	52
VSP-C8-40P*-6TC		4						
VSP-C8-50P*-4TC		2.5	101.6		82.5	50	0.9 to 4.5	58
VSP-C8-50P*-6TC		4						
VSP-C10-20P*-4TC	10	2.5	62.9	5.8	43.8	20	1.5 to 4.9	42
VSP-C10-20P*-6TC		4						
VSP-C10-30P*-4TC		2.5	75.9		56.8	30	1.1 to 4.8	47
VSP-C10-30P*-6TC		4						
VSP-C10-40P*-4TC		2.5	88.9		69.8	40	1.0 to 4.5	52
VSP-C10-40P*-6TC		4						
VSP-C10-50P*-4TC		2.5	101.9		82.8	50	0.9 to 4.5	58
VSP-C10-50P*-6TC		4						
VSP-C15-20P*-4TC	15	2.5	63.6	6.5	44.5	20	1.5 to 4.9	42
VSP-C15-20P*-6TC		4						
VSP-C15-30P*-4TC		2.5	76.6		57.5	30	1.1 to 4.8	47
VSP-C15-30P*-6TC		4						
VSP-C15-40P*-4TC		2.5	89.6		70.5	40	1.0 to 4.5	52
VSP-C15-40P*-6TC		4						
VSP-C15-50P*-4TC		2.5	102.6		83.5	50	0.9 to 4.5	58
VSP-C15-50P*-6TC		4						
VSP-C20-20P*-4TC	20	2.5	64.4	7.3	45.3	20	1.5 to 4.9	42
VSP-C20-20P*-6TC		4						
VSP-C20-30P*-4TC		2.5	77.4		58.3	30	1.1 to 4.8	47
VSP-C20-30P*-6TC		4						
VSP-C20-40P*-4TC		2.5	90.4		71.3	40	1.0 to 4.5	52
VSP-C20-40P*-6TC		4						
VSP-C20-50P*-4TC		2.5	103.4		84.3	50	0.9 to 4.5	58
VSP-C20-50P*-6TC		4						

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

- VSP-D8 to 20P*-2/4/6
- VSP-D8 to 20-□P*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	Tube end C	E1	E2	Hexagon H1	Hexagon H2	F	T	Stroke S	Spring force (N)	Weight (g)		
VSP-D8P*-2	8	1.8	M 8 x 0.75	39.5	5.5	23.5	13	10	8.4	12.7	13	10	-	□8	2	3	0.9 to 1.9	13		
VSP-D8P*-4		4							11.2	16.8								14		
VSP-D8P*-6		6							11.9	18.6								15		
VSP-D8-10P*-2		1.8	M 12 x 1	54.6		34	17.5	13	8.4	14.7	21	14	12	-	4	10	0.6 to 1.7	33		
VSP-D8-10P*-4		4							11.2	18.8								34		
VSP-D8-10P*-6		6							11.9	20.1								35		
VSP-D8-15P*-2		1.8		65.6		39	23.5		8.4	14.7	26					20	15	0.4 to 1.7	37	
VSP-D8-15P*-4		4							11.2	18.8									38	
VSP-D8-15P*-6		6							11.9	20.1									39	
VSP-D8-20P*-2		1.8		75.6		44	28.5		8.4	14.7	31						40	20	0.3 to 1.8	40
VSP-D8-20P*-4		4							11.2	18.8										41
VSP-D8-20P*-6		6							11.9	20.1										42
VSP-D10P*-2	10	1.8	M 8 x 0.75	39.8	5.8	23.8	13	10	8.4	12.7	13	10	-	□8	2			3	0.9 to 1.9	13
VSP-D10P*-4		4							11.2	16.8										14
VSP-D10P*-6		6							11.9	18.6										15
VSP-D10-10P*-2		1.8	M 12 x 1	54.9		34.3	17.5	13	8.4	14.7	21	14	12	-	4	10		0.6 to 1.7	33	
VSP-D10-10P*-4		4							11.2	18.8									34	
VSP-D10-10P*-6		6							11.9	20.1									35	
VSP-D10-15P*-2		1.8		65.9		39.3	23.5		8.4	14.7	26					20	15	0.4 to 1.7	37	
VSP-D10-15P*-4		4							11.2	18.8									38	
VSP-D10-15P*-6		6							11.9	20.1									39	
VSP-D10-20P*-2		1.8		75.9		44.3	28.5		8.4	14.7	31						41	20	0.3 to 1.8	40
VSP-D10-20P*-4		4							11.2	18.8										41
VSP-D10-20P*-6		6							11.9	20.1										42
VSP-D15P*-2	15	1.8	M 8 x 0.75	40.5	6.5	24.5	13	10	8.4	12.7	13	10	-	□8	2			3	0.9 to 1.9	13
VSP-D15P*-4		4							11.2	16.8										14
VSP-D15P*-6		6							11.9	18.6										15
VSP-D15-10P*-2		1.8	M 12 x 1	55.6		35	17.5	13	8.4	14.7	21	14	12	-	4	10		0.6 to 1.7	33	
VSP-D15-10P*-4		4							11.2	18.8									34	
VSP-D15-10P*-6		6							11.9	20.1									35	
VSP-D15-15P*-2		1.8		66.6		40	23.5		8.4	14.7	26					20	15	0.4 to 1.7	37	
VSP-D15-15P*-4		4							11.2	18.8									38	
VSP-D15-15P*-6		6							11.9	20.1									39	
VSP-D15-20P*-2		1.8		76.6		45	28.5		8.4	14.7	31						42	20	0.3 to 1.8	40
VSP-D15-20P*-4		4							11.2	18.8										41
VSP-D15-20P*-6		6							11.9	20.1										42
VSP-D20P*-2	20	1.8	M 8 x 0.75	41.3	7.3	25.3	13	10	8.4	12.7	13	10	-	□8	2			3	0.9 to 1.9	13
VSP-D20P*-4		4							11.2	16.8										14
VSP-D20P*-6		6							11.9	18.6										15
VSP-D20-10P*-2		1.8	M 12 x 1	56.4		35.8	17.5	13	8.4	14.7	21	14	12	-	4	10		0.6 to 1.7	33	
VSP-D20-10P*-4		4							11.2	18.8									34	
VSP-D20-10P*-6		6							11.9	20.1									35	
VSP-D20-15P*-2		1.8		67.4		40.8	23.5		8.4	14.7	26					20	15	0.4 to 1.7	37	
VSP-D20-15P*-4		4							11.2	18.8									38	
VSP-D20-15P*-6		6							11.9	20.1									39	
VSP-D20-20P*-2		1.8		77.4		45.8	28.5		8.4	14.7	31						41	20	0.3 to 1.8	40
VSP-D20-20P*-4		4							11.2	18.8										41
VSP-D20-20P*-6		6							11.9	20.1										42

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
belows

Oval

Soft

Soft
belows

Anti-slip

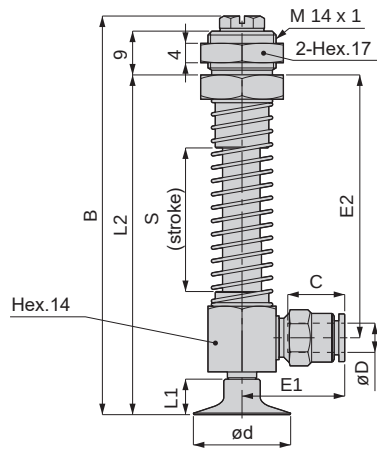
Thin
object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D8 to 20-□P*-4C/6C

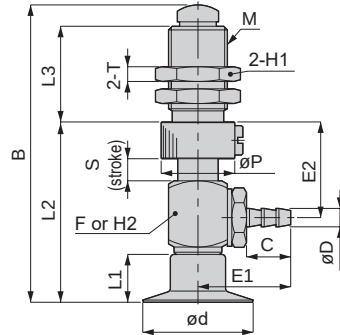


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D8-20P*-4C	8	4	65.6	5.5	53.5	11.2	19.8	40.5	20	1.5 to 4.9	62
VSP-D8-20P*-6C		6				11.9	21.1				63
VSP-D8-30P*-4C		4	78.6		66.5	11.2	19.8	53.5	30	1.1 to 4.8	68
VSP-D8-30P*-6C		6				11.9	21.1				69
VSP-D8-40P*-4C		4	91.6		79.5	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D8-40P*-6C		6				11.9	21.1				76
VSP-D8-50P*-4C		4	104.6		92.5	11.2	19.8	79.5	50	0.9 to 4.5	82
VSP-D8-50P*-6C		6				11.9	21.1				83
VSP-D10-20P*-4C	10	4	65.9	5.8	53.8	11.2	19.8	40.5	20	1.5 to 4.9	62
VSP-D10-20P*-6C		6				11.9	21.1				63
VSP-D10-30P*-4C		4	78.9		66.8	11.2	19.8	53.5	30	1.1 to 4.8	68
VSP-D10-30P*-6C		6				11.9	21.1				69
VSP-D10-40P*-4C		4	91.9		79.8	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D10-40P*-6C		6				11.9	21.1				76
VSP-D10-50P*-4C		4	104.9		92.8	11.2	19.8	79.5	50	0.9 to 4.5	82
VSP-D10-50P*-6C		6				11.9	21.1				83
VSP-D15-20P*-4C	15	4	66.6	6.5	54.5	11.2	19.8	40.5	20	1.5 to 4.9	62
VSP-D15-20P*-6C		6				11.9	21.1				63
VSP-D15-30P*-4C		4	79.6		67.5	11.2	19.8	53.5	30	1.1 to 4.8	68
VSP-D15-30P*-6C		6				11.9	21.1				69
VSP-D15-40P*-4C		4	92.6		80.5	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D15-40P*-6C		6				11.9	21.1				76
VSP-D15-50P*-4C		4	105.6		93.5	11.2	19.8	79.5	50	0.9 to 4.5	82
VSP-D15-50P*-6C		6				11.9	21.1				83
VSP-D20-20P*-4C	20	4	67.4	7.3	55.3	11.2	19.8	40.5	20	1.5 to 4.9	62
VSP-D20-20P*-6C		6				11.9	21.1				63
VSP-D20-30P*-4C		4	80.4		68.3	11.2	19.8	53.5	30	1.1 to 4.8	68
VSP-D20-30P*-6C		6				11.9	21.1				69
VSP-D20-40P*-4C		4	93.4		81.3	11.2	19.8	66.5	40	1.0 to 4.5	75
VSP-D20-40P*-6C		6				11.9	21.1				76
VSP-D20-50P*-4C		4	106.4		94.3	11.2	19.8	79.5	50	0.9 to 4.5	82
VSP-D20-50P*-6C		6				11.9	21.1				83

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting)

- VSP-D8 to 20P*-4T/6T
- VSP-D8 to 20-□P-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	Mounting screw M	B	L1	L2	L3	øP	E1	E2	Hexagon H1	Hexagon H2	F	T	Stroke S	Spring force (N)	Weight (g)
VSP-D8P*-4T	8	2.5	M 8 x 0.75	39.5	5.5	23.5	13	10	13.9	13	10	-	□8	2	3	0.9 to 1.9	14
VSP-D8P*-6T		4															
VSP-D8-10P*-4T		2.5	M 12 x 1	54.6		34	17.5	13	15.9	21	14	12	-	4	10	0.6 to 1.7	34
VSP-D8-10P*-6T		4								26					15	0.4 to 1.7	38
VSP-D8-15P*-4T		2.5		65.6		39	23.5			31					20	0.3 to 1.8	41
VSP-D8-15P*-6T		4															
VSP-D8-20P*-4T		2.5		75.6		44	28.5			20					0.3 to 1.8	41	
VSP-D8-20P*-6T		4															
VSP-D10P*-4T	10	2.5	M 8 x 0.75	39.8	5.8	23.8	13	10	13.9	13	10	-	□8	2	3	0.9 to 1.9	14
VSP-D10P*-6T		4															
VSP-D10-10P*-4T		2.5	M 12 x 1	54.9		34.3	17.5	13	15.9	21	14	12	-	4	10	0.6 to 1.7	34
VSP-D10-10P*-6T		4								26					15	0.4 to 1.7	38
VSP-D10-15P*-4T		2.5		65.9		39.3	23.5			31					20	0.3 to 1.8	41
VSP-D10-15P*-6T		4															
VSP-D10-20P*-4T		2.5		75.9		44.3	28.5			20					0.3 to 1.8	41	
VSP-D10-20P*-6T		4															
VSP-D15P*-4T	15	2.5	M 8 x 0.75	40.5	6.5	24.5	13	10	13.9	13	10	-	□8	2	3	0.9 to 1.9	14
VSP-D15P*-6T		4															
VSP-D15-10P*-4T		2.5	M 12 x 1	55.6		35	17.5	13	15.9	21	14	12	-	4	10	0.6 to 1.7	34
VSP-D15-10P*-6T		4								26					15	0.4 to 1.7	38
VSP-D15-15P*-4T		2.5		66.6		40	23.5			31					20	0.3 to 1.8	41
VSP-D15-15P*-6T		4															
VSP-D15-20P*-4T		2.5		76.6		45	28.5			20					0.3 to 1.8	41	
VSP-D15-20P*-6T		4															
VSP-D20P*-4T	20	2.5	M 8 x 0.75	41.3	7.3	25.3	13	10	13.9	13	10	-	□8	2	3	0.9 to 1.9	14
VSP-D20P*-6T		4															
VSP-D20-10P*-4T		2.5	M 12 x 1	56.4		35.8	17.5	13	15.9	21	14	12	-	4	10	0.6 to 1.7	34
VSP-D20-10P*-6T		4								26					15	0.4 to 1.7	38
VSP-D20-15P*-4T		2.5		67.5		40.8	23.5			31					20	0.3 to 1.8	41
VSP-D20-15P*-6T		4															
VSP-D20-20P*-4T		2.5		77.4		45.8	28.5			20					0.3 to 1.8	41	
VSP-D20-20P*-6T		4															

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

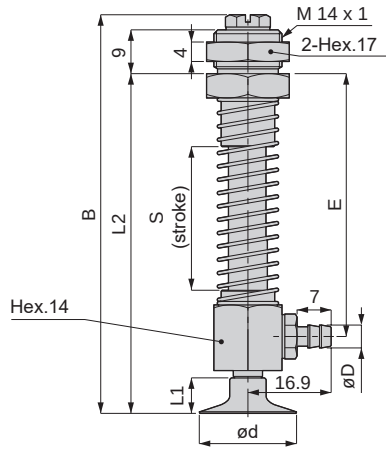
Thin
object

Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D8 to 20-□P*-4TC/6TC

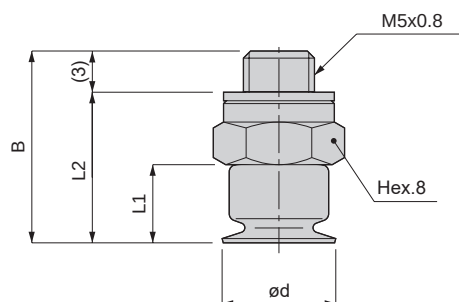


Unit: mm

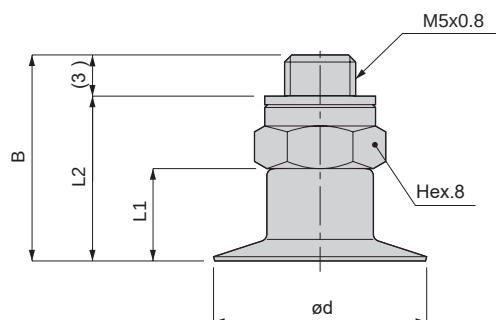
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-D8-20P*-4TC	8	2.5	65.6	5.5	53.5	40.5	20	1.5 to 4.9	60
VSP-D8-20P*-6TC		4							
VSP-D8-30P*-4TC		2.5	78.6		66.5	53.5	30	1.1 to 4.8	67
VSP-D8-30P*-6TC		4							
VSP-D8-40P*-4TC		2.5	91.6		79.5	66.5	40	1.0 to 4.5	74
VSP-D8-40P*-6TC		4							
VSP-D8-50P*-4TC		2.5	104.6		92.5	79.5	50	0.9 to 4.5	80
VSP-D8-50P*-6TC		4							
VSP-D10-20P*-4TC	10	2.5	65.9	5.8	53.8	40.5	20	1.5 to 4.9	60
VSP-D10-20P*-6TC		4							
VSP-D10-30P*-4TC		2.5	78.9		66.8	53.5	30	1.1 to 4.8	67
VSP-D10-30P*-6TC		4							
VSP-D10-40P*-4TC		2.5	91.9		79.8	66.5	40	1.0 to 4.5	74
VSP-D10-40P*-6TC		4							
VSP-D10-50P*-4TC		2.5	104.9		92.8	79.5	50	0.9 to 4.5	80
VSP-D10-50P*-6TC		4							
VSP-D15-20P*-4TC	15	2.5	66.6	6.5	54.5	40.5	20	1.5 to 4.9	60
VSP-D15-20P*-6TC		4							
VSP-D15-30P*-4TC		2.5	79.6		67.5	53.5	30	1.1 to 4.8	67
VSP-D15-30P*-6TC		4							
VSP-D15-40P*-4TC		2.5	92.6		80.5	66.5	40	1.0 to 4.5	74
VSP-D15-40P*-6TC		4							
VSP-D15-50P*-4TC		2.5	105.6		93.5	79.5	50	0.9 to 4.5	80
VSP-D15-50P*-6TC		4							
VSP-D20-20P*-4TC	20	2.5	67.4	7.3	55.3	40.5	20	1.5 to 4.9	60
VSP-D20-20P*-6TC		4							
VSP-D20-30P*-4TC		2.5	80.4		68.3	53.5	30	1.1 to 4.8	67
VSP-D20-30P*-6TC		4							
VSP-D20-40P*-4TC		2.5	93.4		81.3	66.5	40	1.0 to 4.5	74
VSP-D20-40P*-6TC		4							
VSP-D20-50P*-4TC		2.5	106.4		94.3	79.5	50	0.9 to 4.5	80
VSP-D20-50P*-6TC		4							

Dimensions (direct mounting fixed VSP-E)

●VSP-E8, 10P*



●VSP-E15, 20P*

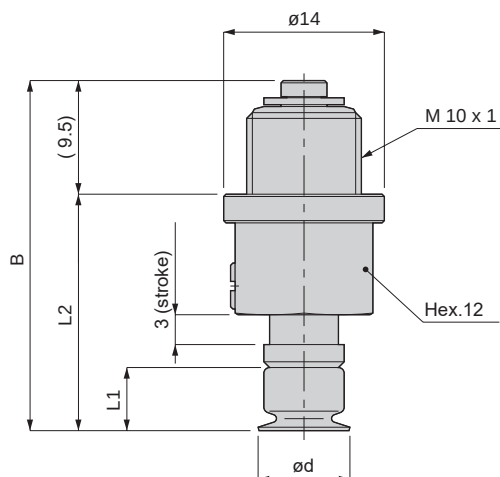


Unit: mm

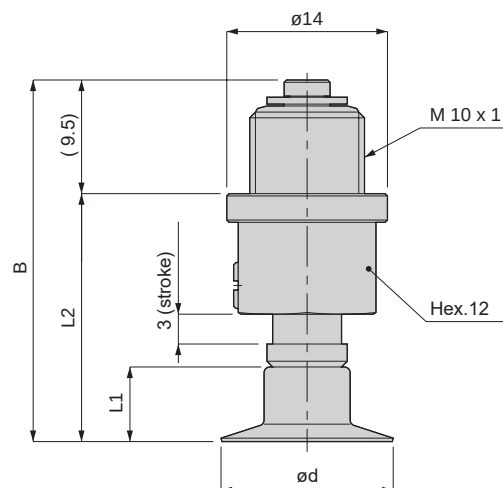
Model No.	Pad diameter ød	B	L1	L2	Weight (g)
VSP-E8P*	8	13.5	5.5	10.5	2.7
VSP-E10P*	10	13.8	5.8	10.8	2.8
VSP-E15P*	15	14.5	6.5	11.5	2.9
VSP-E20P*	20	15.3	7.3	12.3	3

Dimensions (direct mounting buffer, VSP-F)

●VSP-F8, 10P*



●VSP-F15, 20P*



Unit: mm

Model No.	Pad diameter ød	B	L1	L2	Spring force (N)	Weight (g)
VSP-F8P*	8	30.5	5.5	21	2.3 to 3.9	14.2
VSP-F10P*	10	30.8	5.8	21.3	2.3 to 3.9	14.3
VSP-F15P*	15	31.5	6.5	22	2.3 to 3.9	14.4
VSP-F20P*	20	32.3	7.3	22.8	2.3 to 3.9	14.5

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

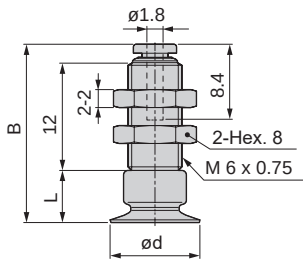
Thin
object

Flat

Suction mark
prevention

Dimensions (compact fixed, vacuum outlet top VSP-MA, push-in fitting)

●VSP-MA8 to 20P*-2

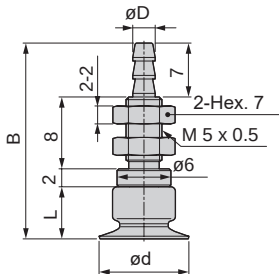


Unit: mm

Model No.	Pad diameter ød	B	L	Weight (g)
VSP-MA8P*-2	8	19.6	5.5	2.1
VSP-MA10P*-2	10	19.9	5.8	2.1
VSP-MA15P*-2	15	20.6	6.5	2.2
VSP-MA20P*-2	20	21.4	7.3	2.2

Dimensions (compact fixed, vacuum outlet top VSP-MA, barbed fitting)

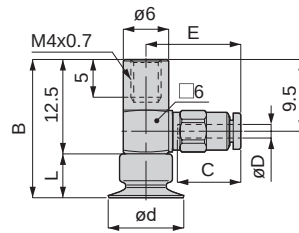
●VSP-MA8 to 20P*-4T



Unit: mm

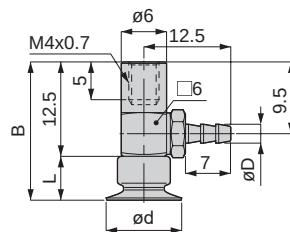
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MA8P*-4T	8	2.5	22.5	5.5	1.6
VSP-MA10P*-4T	10	2.5	22.8	5.8	1.6
VSP-MA15P*-4T	15	2.5	23.5	6.5	1.7
VSP-MA20P*-4T	20	2.5	24.3	7.3	1.7

●VSP-MB8 to 20P*-2/4



Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB8W*-2	8	1.8	18	5.5	8.4	12.5	2.1
VSP-MB8W*-4		4			11.2	15.8	3
VSP-MB10W*-2	10	1.8	18.3	5.8	8.4	12.5	2.1
VSP-MB10W*-4		4			11.2	15.8	3
VSP-MB15W*-2	15	1.8	19	6.5	8.4	12.5	2.2
VSP-MB15W*-4		4			11.2	15.8	3
VSP-MB20W*-2	20	1.8	19.8	7.3	8.4	12.5	2.2
VSP-MB20W*-4		4			11.2	15.8	3

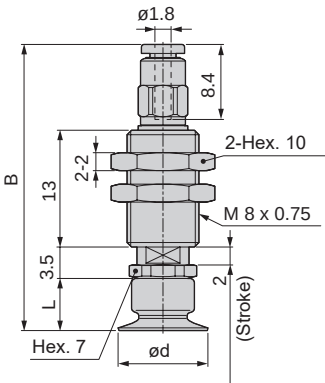
●VSP-MB8 to 20P*-4T/6T



Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB8W*-4T	8	2.5	18	5.5	2
VSP-MB8W*-6T		4			
VSP-MB10W*-4T	10	2.5	18.3	5.8	2
VSP-MB10W*-6T		4			
VSP-MB15W*-4T	15	2.5	19	6.5	2
VSP-MB15W*-6T		4			
VSP-MB20W*-4T	20	2.5	19.8	7.3	2
VSP-MB20W*-6T		4			

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

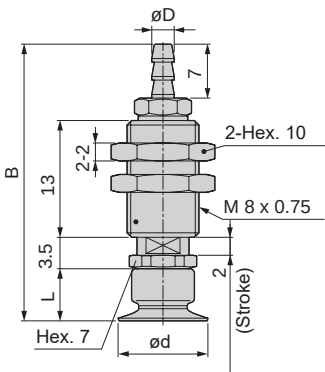
●VSP-MC8 to 20P*-2



Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC8P*-2	8	1.8	31.7	5.5	0.5 to 0.6	1.8
VSP-MC10P*-2	10	1.8	32	5.8	0.5 to 0.6	1.8
VSP-MC15P*-2	15	1.8	32.7	6.5	0.5 to 0.6	1.8
VSP-MC20P*-2	20	1.8	33.5	7.3	0.5 to 0.6	1.8

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

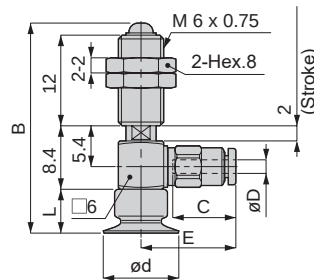
●VSP-MC8 to 20P*-4T/6T



Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC8P*-4T	8	2.5	31.6	5.5	0.5 to 0.6	1.6
VSP-MC8P*-6T		4				
VSP-MC10P*-4T	10	2.5	31.9	5.8	0.5 to 0.6	1.6
VSP-MC10P*-6T		4				
VSP-MC15P*-4T	15	2.5	32.6	6.5	0.5 to 0.6	1.6
VSP-MC15P*-6T		4				
VSP-MC20P*-4T	20	2.5	33.4	7.3	0.5 to 0.6	1.6
VSP-MC20P*-6T		4				

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

●VSP-MD8 to 20P*-2/4

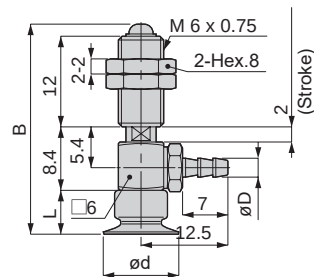


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD8P*-2	8	1.8	27.5	5.5	8.4	12.6	0.5 to 0.6	6.1
VSP-MD8P*-4		4			11.2	15.9		7
VSP-MD10P*-2	10	1.8	27.8	5.8	8.4	12.6	0.5 to 0.6	6.2
VSP-MD10P*-4		4			11.2	15.9		7
VSP-MD15P*-2	15	1.8	28.5	6.5	8.4	12.6	0.5 to 0.6	6.2
VSP-MD15P*-4		4			11.2	15.9		7
VSP-MD20P*-2	20	1.8	29.3	7.3	8.4	12.6	0.5 to 0.6	6.3
VSP-MD20P*-4		4			11.2	15.9		7

Dimensions (compact buffer, vacuum outlet side VSP-MD, barbed fitting)

●VSP-MD8 to 20P*-4T/6T

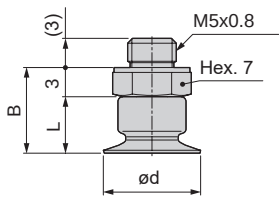


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MD8P*-4T	8	2.5	27.5	5.5	0.5 to 0.6	6
VSP-MD8P*-6T		4				
VSP-MD10P*-4T	10	2.5	27.8	5.8	0.5 to 0.6	6
VSP-MD10P*-6T		4				
VSP-MD15P*-4T	15	2.5	28.5	6.5	0.5 to 0.6	6.1
VSP-MD15P*-6T		4				
VSP-MD20P*-4T	20	2.5	29.3	7.3	0.5 to 0.6	6.1
VSP-MD20P*-6T		4				

Dimensions (compact direct mounting fixed VSP-ME)

●VSP-ME8 to 20P*-M5



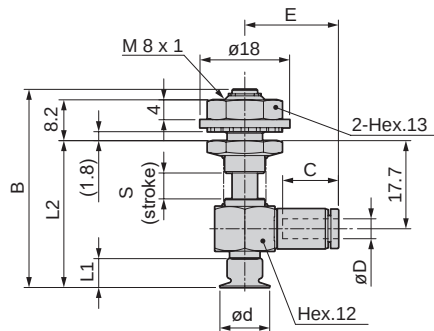
Unit: mm

Model No.	Pad diameter ød	B	L	Weight (g)
VSP-ME8P*-M5	8	8.5	5.5	8
VSP-ME10P*-M5	10	8.8	5.8	10
VSP-ME15P*-M5	15	9.5	6.5	15
VSP-ME20P*-M5	20	10.3	7.3	20

- Suction pad
- General/Deep/Compact
- Sponge
- Bellows
- Multi-stage bellows
- Oval
- Soft
- Soft bellows
- Anti-slip
- Thin object
- Flat
- Suction mark prevention

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, push-in fitting)

●VSP-HD8 to 20P*-2/4/6

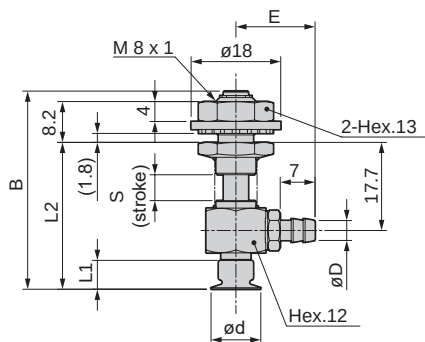


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD8P*-2	8	1.8	39.5	5.5	29.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD8P*-4		4				11.2	18.8			30
VSP-HD8P*-6		6				11.9	20.6			31
VSP-HD10P*-2	10	1.8	39.8	5.8	29.5	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD10P*-4		4				11.2	18.8			30
VSP-HD10P*-6		6				11.9	20.6			31
VSP-HD15P*-2	15	1.8	40.5	6.5	30.2	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD15P*-4		4				11.2	18.8			30
VSP-HD15P*-6		6				11.9	20.6			31
VSP-HD20P*-2	20	1.8	41.3	7.3	31	8.4	14.7	5.2	1.6 to 2.9	29
VSP-HD20P*-4		4				11.2	18.8			30
VSP-HD20P*-6		6				11.9	20.6			31

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, barbed fitting)

●VSP-HD8 to 20P*-4T/6T

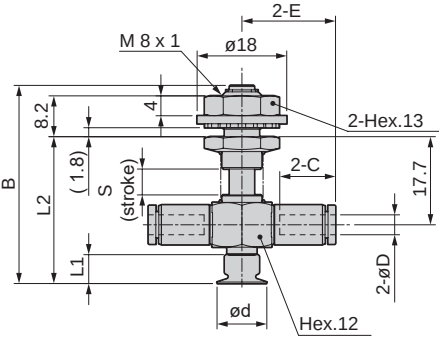


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD8P*-4T	8	2.5	39.5	5.5	29.2	15.9	5.2	1.6 to 2.9	28
VSP-HD8P*-6T		4							
VSP-HD10P*-4T	10	2.5	39.8	5.8	29.5	15.9	5.2	1.6 to 2.9	28
VSP-HD10P*-6T		4							
VSP-HD15P*-4T	15	2.5	40.5	6.5	30.2	15.9	5.2	1.6 to 2.9	28
VSP-HD15P*-6T		4							
VSP-HD20P*-4T	20	2.5	41.3	7.3	31	15.9	5.2	1.6 to 2.9	28
VSP-HD20P*-6T		4							

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW8 to 20P*-2/4/6

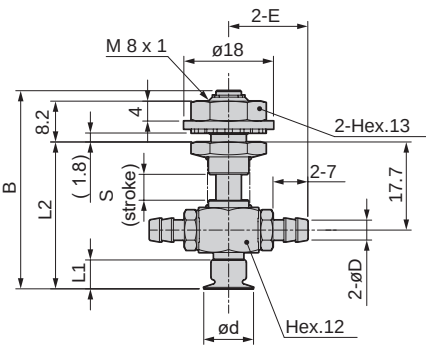


Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW8P*-2	8	1.8	39.5	5.5	29.2	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HDW8P*-4		4				11.2	18.8			33
VSP-HDW8P*-6		6				11.9	20.6			35
VSP-HDW10P*-2	10	1.8	39.8	5.8	29.5	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HDW10P*-4		4				11.2	18.8			33
VSP-HDW10P*-6		6				11.9	20.6			35
VSP-HDW15P*-2	15	1.8	40.5	6.5	30.2	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HDW15P*-4		4				11.2	18.8			33
VSP-HDW15P*-6		6				11.9	20.6			35
VSP-HDW20P*-2	20	1.8	41.3	7.3	31	8.4	14.7	5.2	1.6 to 2.9	31
VSP-HDW20P*-4		4				11.2	18.8			33
VSP-HDW20P*-6		6				11.9	20.6			35

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW8 to 20P*-4T/6T

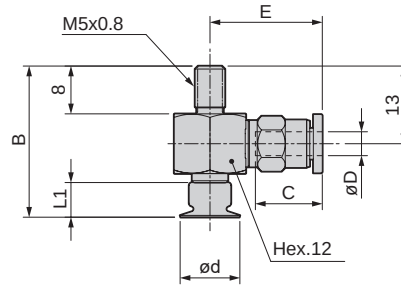


Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW8P*-4T	8	2.5	39.5	5.5	29.2	15.9	5.2	1.6 to 2.9	29
VSP-HDW8P*-6T		4							
VSP-HDW10P*-4T	10	2.5	39.8	5.8	29.5	15.9	5.2	1.6 to 2.9	29
VSP-HDW10P*-6T		4							
VSP-HDW15P*-4T	15	2.5	40.5	6.5	30.2	15.9	5.2	1.6 to 2.9	29
VSP-HDW15P*-6T		4							
VSP-HDW20P*-4T	20	2.5	41.3	7.3	31	15.9	5.2	1.6 to 2.9	29
VSP-HDW20P*-6T		4							

Dimensions (low back fixed, vacuum outlet side VSP-HE, push-in fitting)

●VSP-HE8 to 20P*-2/4/6

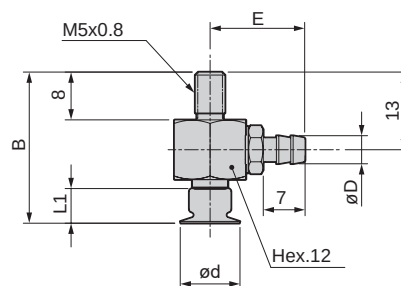


Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	E	Weight (g)
VSP-HE8P*-2	8	1.8	25	5.5	8.4	14.7	15
VSP-HE8P*-4		4			11.2	18.8	16
VSP-HE8P*-6		6			11.9	20.6	17
VSP-HE10P*-2	10	1.8	25.3	5.8	8.4	14.7	15
VSP-HE10P*-4		4			11.2	18.8	16
VSP-HE10P*-6		6			11.9	20.6	17
VSP-HE15P*-2	15	1.8	26	6.5	8.4	14.7	15
VSP-HE15P*-4		4			11.2	18.8	16
VSP-HE15P*-6		6			11.9	20.6	17
VSP-HE20P*-2	20	1.8	26.8	7.3	8.4	14.7	15
VSP-HE20P*-4		4			11.2	18.8	16
VSP-HE20P*-6		6			11.9	20.6	17

Dimensions (low back fixed, vacuum outlet side VSP-HE, barbed fitting)

●VSP-HE8 to 20P*-4T/6T

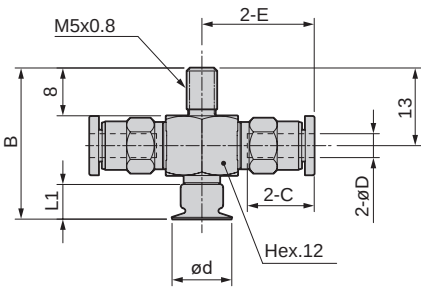


Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	E	Weight (g)
VSP-HE8P*-4T	8	2.5	25	5.5	15.9	14
VSP-HE8P*-6T		4				
VSP-HE10P*-4T	10	2.5	25.3	5.8	15.9	14
VSP-HE10P*-6T		4				
VSP-HE15P*-4T	15	2.5	26	6.5	15.9	14
VSP-HE15P*-6T		4				
VSP-HE20P*-4T	20	2.5	26.8	7.3	15.9	14
VSP-HE20P*-6T		4				

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, push-in fitting)

●VSP-HEW8 to 20P*-2/4/6

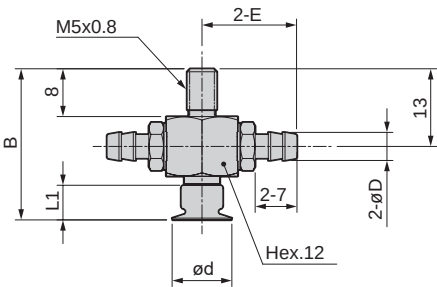


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW8P*-2	8	1.8	25	5.5	8.4	14.7	16
VSP-HEW8P*-4		4			11.2	18.8	18
VSP-HEW8P*-6		6			11.9	20.6	20
VSP-HEW10P*-2	10	1.8	25.3	5.8	8.4	14.7	16
VSP-HEW10P*-4		4			11.2	18.8	18
VSP-HEW10P*-6		6			11.9	20.6	20
VSP-HEW15P*-2	15	1.8	26	6.5	8.4	14.7	16
VSP-HEW15P*-4		4			11.2	18.8	18
VSP-HEW15P*-6		6			11.9	20.6	20
VSP-HEW20P*-2	20	1.8	26.8	7.3	8.4	14.7	16
VSP-HEW20P*-4		4			11.2	18.8	18
VSP-HEW20P*-6		6			11.9	20.6	20

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW8 to 20P*-4T/6T

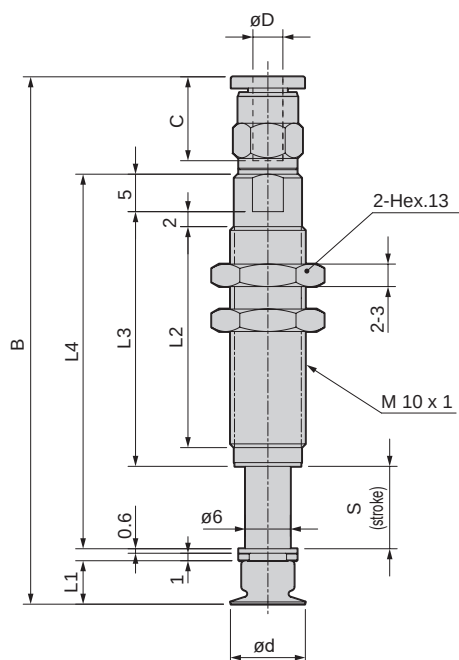


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW8P*-4T	8	2.5	25	5.5	15.9	15
VSP-HEW8P*-6T		4				
VSP-HEW10P*-4T	10	2.5	25.3	5.8	15.9	15
VSP-HEW10P*-6T		4				
VSP-HEW15P*-4T	15	2.5	26	6.5	15.9	15
VSP-HEW15P*-6T		4				
VSP-HEW20P*-4T	20	2.5	26.8	7.3	15.9	15
VSP-HEW20P*-6T		4				

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC8 to 20-□P*-4



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC8-2P*-4	8	4	54.1	5.5	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC8-5P*-4			60.1		24.5	29	40		5	1.3 to 2.4[0.33 to 0.6]	27
VSP-LFC8-10P*-4			70.1		29.5	34	50		10	1.3 to 3.3[0.33 to 0.83]	29
VSP-LFC8-15P*-4			80.1		34.5	39	60		15	1.3 to 4.2[0.33 to 1.05]	31
VSP-LFC8-20P*-4			90.1		39.5	44	70		20	1.3 to 5.1[0.33 to 1.28]	33
VSP-LFC10-2P*-4	10	4	54.4	5.8	21.5	26	34	11.2	2	1.3 to 1.8	25
VSP-LFC10-5P*-4			60.4		24.5	29	40		5	1.3 to 2.4[0.33 to 0.6]	27
VSP-LFC10-10P*-4			70.4		29.5	34	50		10	1.3 to 3.3[0.33 to 0.83]	29
VSP-LFC10-15P*-4			80.4		34.5	39	60		15	1.3 to 4.2[0.33 to 1.05]	31
VSP-LFC10-20P*-4			90.4		39.5	44	70		20	1.3 to 5.1[0.33 to 1.28]	33
VSP-LFC15-2P*-4	15	4	55.1	6.5	21.5	26	34	11.2	2	1.3 to 1.8	26
VSP-LFC15-5P*-4			61.1		24.5	29	40		5	1.3 to 2.4[0.33 to 0.6]	28
VSP-LFC15-10P*-4			71.1		29.5	34	50		10	1.3 to 3.3[0.33 to 0.83]	30
VSP-LFC15-15P*-4			81.1		34.5	39	60		15	1.3 to 4.2[0.33 to 1.05]	32
VSP-LFC15-20P*-4			91.1		39.5	44	70		20	1.3 to 5.1[0.33 to 1.28]	34
VSP-LFC20-2P*-4	20	4	55.9	7.3	21.5	26	34	11.2	2	1.3 to 1.8	26
VSP-LFC20-5P*-4			61.9		24.5	29	40		5	1.3 to 2.4[0.33 to 0.6]	28
VSP-LFC20-10P*-4			71.9		29.5	34	50		10	1.3 to 3.3[0.33 to 0.83]	30
VSP-LFC20-15P*-4			81.9		34.5	39	60		15	1.3 to 4.2[0.33 to 1.05]	32
VSP-LFC20-20P*-4			91.9		39.5	44	70		20	1.3 to 5.1[0.33 to 1.28]	34

*1: Values in [] are for low load.

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

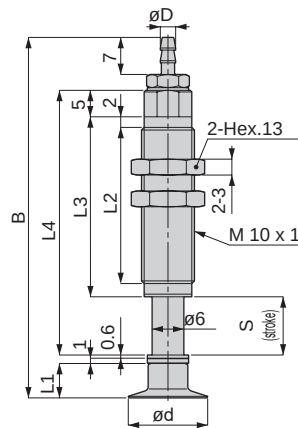
Thin
object

Flat

Suction mark
prevention

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, barbed fitting)

●VSP-LFC8 to 20-□P*-4T/6T

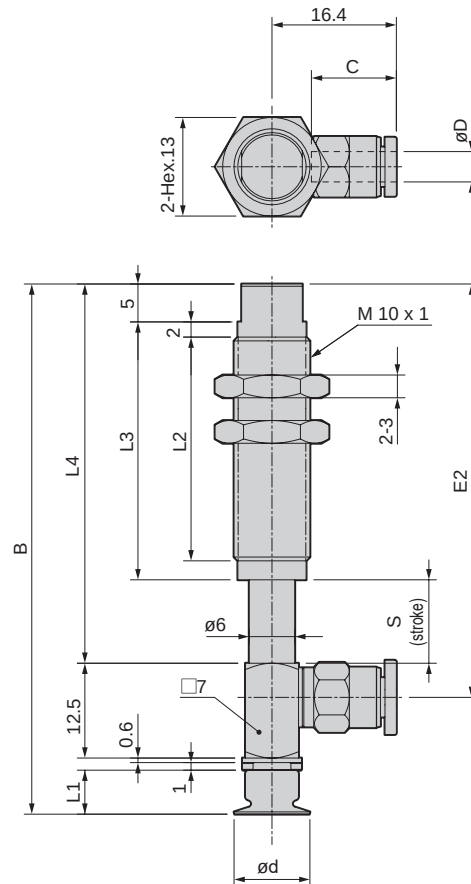


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC8-2P*-4T	8	2.5	51.2	5.5	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC8-2P*-6T		4								
VSP-LFC8-5P*-4T		2.5	57.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC8-5P*-6T		4								
VSP-LFC8-10P*-4T		2.5	67.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC8-10P*-6T		4								
VSP-LFC8-15P*-4T		2.5	77.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC8-15P*-6T		4								
VSP-LFC8-20P*-4T		2.5	87.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC8-20P*-6T		4								
VSP-LFC10-2P*-4T	10	2.5	51.5	5.8	21.5	26	34	2	1.3 to 1.8	24
VSP-LFC10-2P*-6T		4								
VSP-LFC10-5P*-4T		2.5	57.5		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	26
VSP-LFC10-5P*-6T		4								
VSP-LFC10-10P*-4T		2.5	67.5		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	28
VSP-LFC10-10P*-6T		4								
VSP-LFC10-15P*-4T		2.5	77.5		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	30
VSP-LFC10-15P*-6T		4								
VSP-LFC10-20P*-4T		2.5	87.5		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	31
VSP-LFC10-20P*-6T		4								
VSP-LFC15-2P*-4T	15	2.5	52.2	6.5	21.5	26	34	2	1.3 to 1.8	25
VSP-LFC15-2P*-6T		4								
VSP-LFC15-5P*-4T		2.5	58.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC15-5P*-6T		4								
VSP-LFC15-10P*-4T		2.5	68.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC15-10P*-6T		4								
VSP-LFC15-15P*-4T		2.5	78.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC15-15P*-6T		4								
VSP-LFC15-20P*-4T		2.5	88.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	32
VSP-LFC15-20P*-6T		4								
VSP-LFC20-2P*-4T	20	2.5	53	7.3	21.5	26	34	2	1.3 to 1.8	25
VSP-LFC20-2P*-6T		4								
VSP-LFC20-5P*-4T		2.5	59		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	27
VSP-LFC20-5P*-6T		4								
VSP-LFC20-10P*-4T		2.5	69		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	29
VSP-LFC20-10P*-6T		4								
VSP-LFC20-15P*-4T		2.5	79		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	31
VSP-LFC20-15P*-6T		4								
VSP-LFC20-20P*-4T		2.5	89		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	32
VSP-LFC20-20P*-6T		4								

*1: Values in [] are for low load.

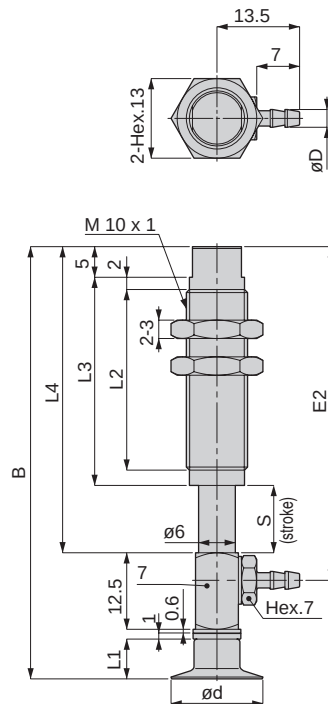
●VSP-LFD8 to 20-□P*-4



Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Tube end C	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD8-5P*-4	8	4	59.6	5.5	24.5	29	40	11.2	44.5	5	1.3 to 2.4	30
VSP-LFD8-10P*-4			69.6		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD8-15P*-4			79.6		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD8-20P*-4			89.6		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD10-5P*-4	10	4	59.9	5.8	24.5	29	40	11.2	44.5	5	1.3 to 2.4	30
VSP-LFD10-10P*-4			69.9		29.5	34	50		54.5	10	1.3 to 3.3	33
VSP-LFD10-15P*-4			79.9		34.5	39	60		64.5	15	1.3 to 4.2	35
VSP-LFD10-20P*-4			89.9		39.5	44	70		74.5	20	1.3 to 5.1	37
VSP-LFD15-5P*-4	15	4	60.6	6.5	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD15-10P*-4			70.6		29.5	34	50		54.5	10	1.3 to 3.3	34
VSP-LFD15-15P*-4			80.6		34.5	39	60		64.5	15	1.3 to 4.2	36
VSP-LFD15-20P*-4			90.6		39.5	44	70		74.5	20	1.3 to 5.1	38
VSP-LFD20-5P*-4	20	4	61.4	7.3	24.5	29	40	11.2	44.5	5	1.3 to 2.4	31
VSP-LFD20-10P*-4			71.4		29.5	34	50		54.5	10	1.3 to 3.3	34
VSP-LFD20-15P*-4			81.4		34.5	39	60		64.5	15	1.3 to 4.2	36
VSP-LFD20-20P*-4			91.4		39.5	44	70		74.5	20	1.3 to 5.1	38

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD8 to 20-□P*-4T/6T

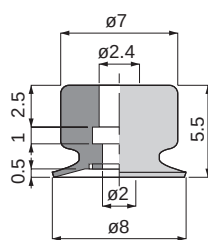


Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD8-5P*-4T	8	2.5	59.6	5.5	24.5	29	40	44.5	5	1.3 to 2.4	29
VSP-LFD8-5P*-6T		4									
VSP-LFD8-10P*-4T		2.5	69.6		29.5	34	50	54.5	10	1.3 to 3.3	31
VSP-LFD8-10P*-6T		4									
VSP-LFD8-15P*-4T		2.5	79.6		34.5	39	60	64.5	15	1.3 to 4.2	33
VSP-LFD8-15P*-6T		4									
VSP-LFD8-20P*-4T		2.5	89.6		39.5	44	70	74.5	20	1.3 to 5.1	35
VSP-LFD8-20P*-6T		4									
VSP-LFD10-5P*-4T	10	2.5	59.9	5.8	24.5	29	40	44.5	5	1.3 to 2.4	29
VSP-LFD10-5P*-6T		4									
VSP-LFD10-10P*-4T		2.5	69.9		29.5	34	50	54.5	10	1.3 to 3.3	31
VSP-LFD10-10P*-6T		4									
VSP-LFD10-15P*-4T		2.5	79.9		34.5	39	60	64.5	15	1.3 to 4.2	33
VSP-LFD10-15P*-6T		4									
VSP-LFD10-20P*-4T		2.5	89.9		39.5	44	70	74.5	20	1.3 to 5.1	35
VSP-LFD10-20P*-6T		4									
VSP-LFD15-5P*-4T	15	2.5	60.6	6.5	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD15-5P*-6T		4									
VSP-LFD15-10P*-4T		2.5	70.6		29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD15-10P*-6T		4									
VSP-LFD15-15P*-4T		2.5	80.6		34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD15-15P*-6T		4									
VSP-LFD15-20P*-4T		2.5	90.6		39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD15-20P*-6T		4									
VSP-LFD20-5P*-4T	20	2.5	61.4	7.3	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD20-5P*-6T		4									
VSP-LFD20-10P*-4T		2.5	71.4		29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD20-10P*-6T		4									
VSP-LFD20-15P*-4T		2.5	81.4		34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD20-15P*-6T		4									
VSP-LFD20-20P*-4T		2.5	91.4		39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD20-20P*-6T		4									

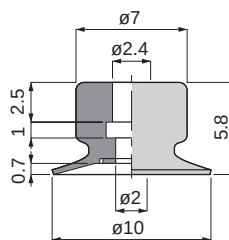
Dimensions: pad only

●VSPG-8P*



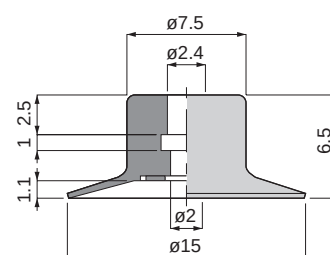
Weight: 0.2g [0.4g]

●VSPG-10P*



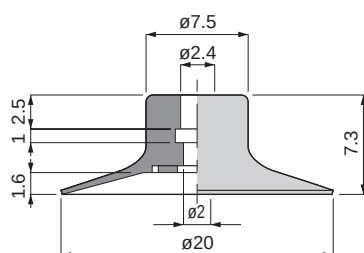
Weight: 0.3g [0.5g]

●VSPG-15P*



Weight: 0.4g [0.6g]

●VSPG-20P*

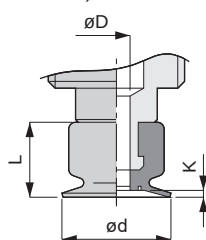


Weight: 0.5g [0.8g]

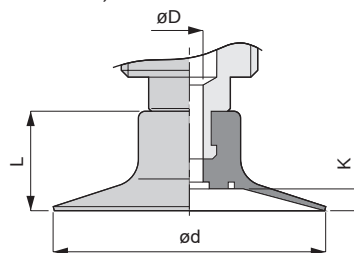
Note: Values in [] for fluoro rubber only.

Detailed view of pad and holder connection

●VSPG-8, 10P* A



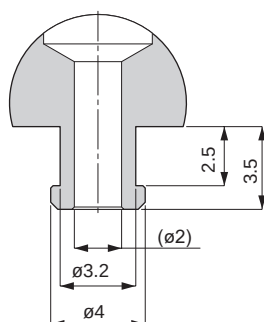
●VSPG-15, 20P* A



Unit: mm

Model No.	Pad diameter Ød	L	Lip internal height K	ØD
VSPG-8P*	8	5.5	0.5	2
VSPG-10P*	10	5.8	0.7	2
VSPG-15P*	15	6.5	1.1	2
VSPG-20P*	20	7.3	1.6	2

Pad fitting part dimensions



Safety precautions



WARNING

Since thin pads may stick to the workpiece due to the characteristics of the material depending on the working conditions, please check with an actual device.



Suction pad, flat type/flat suction flow rate increase type

VSP-*F*, *FH* Series

Suction pad with flat suction surface that prevents thin workpieces from deforming/wrinkling



Grooves are formed on a flat suction surface to suppress changes in the workpiece during suction and reduce creases

A wide range of holder variations

Shape

16types

Piping

5types

Stroke

11types

- Standard: 5 types
- Lightweight: 3 types
- Compact: 4 types
- Low dust generation: 2 types

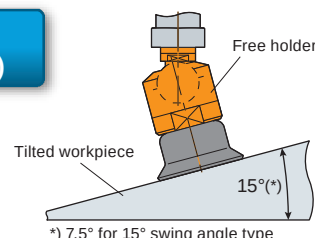
- Push-in fitting(ø1.8 to ø6): 3 types
- Barbed fitting(ø4, ø6): 2 types

2 mm to 50 mm
(Depends on pad diameter and holder)

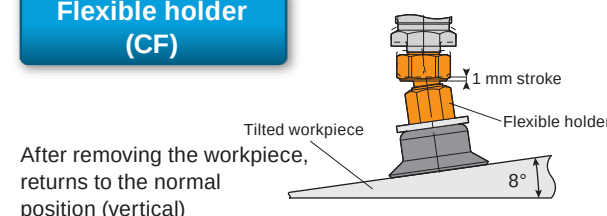
Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding.

Supports assembly options of track swinging (free holder, flexible holder) on a workpiece surface with an angle.

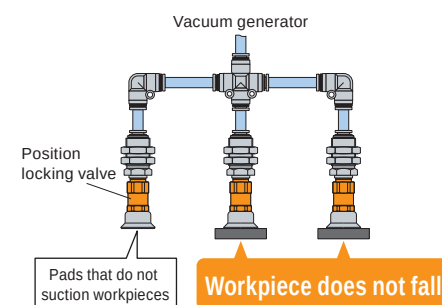
Free holder
(F1:30°, F2:15°)



Flexible holder
(CF)



Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



Pad surface treatment (option) is available for special treatment to reduce suction marks

	-DL	-ER	-FG
	Anti-sticking	Reduced suction marks	Fluorine coating
Surface-treated			
Compatible materials	silicone Fluorine Conductive silicone	Nitriles Nitrile conductive NBR	silicone Conductive silicone
Features	Special coating with good slip. Effective for preventing adhesion of lightweight and thin workpieces.	Reduces suction marks by modifying the surface with an environmentally friendly chemical liquid.	Surface modification for special treatment to prevent adhesion to workpieces. Improved pad durability and wear resistance.

VSP-*F*, *FH* Series

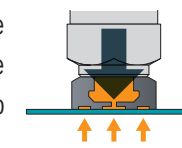
Pad shape



Flat shape

Standard (F)

The flat suction surface pushes down the workpiece to suppress its deformation. On the other hand, since the suction area is limited to the groove part, the suction force is not so large.

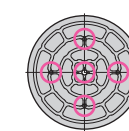
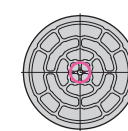


Increased intake flow rate (FH)

Increased flow path holes dramatically improve the suction flow rate and suction force.

Standard

Intake flow rate increase type



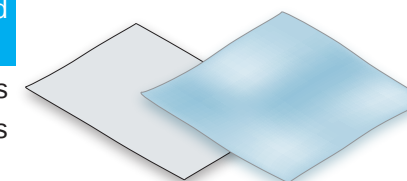
Intake flow rate Max. 2.5X
Suction force Max. 6X

Flow path

4-hole addition

Recommended workpiece

Thin workpieces such as sheets and vinyl



Pad diameter

5 types

10

15

20

25

30

Pad material

6 types

NitoriK

silicone

Urethane

Fluorine

Conductive silicone

Conductive NBR (low resistance)

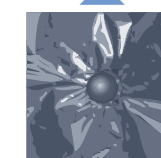
* Urethane is not available for intake flow rate (FH). Silicone (S) is compatible with the Food Sanitation Act. (holder is not supported/suction pad is compatible only with workpiece contact part)

Solution examples

Conveying thin and easily deformed workpieces



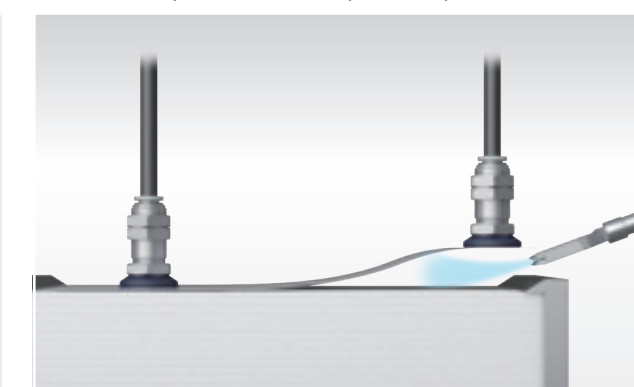
Flat pad



Thin pad



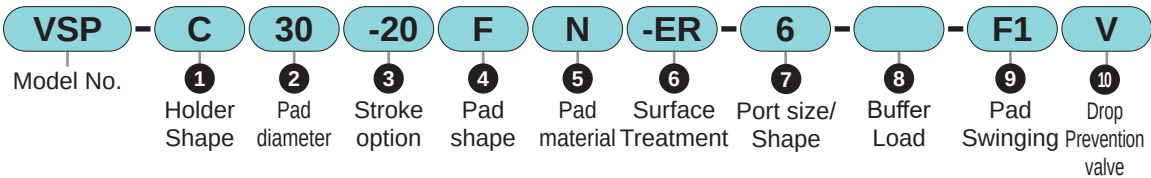
Suction-transport thin film-shaped workpieces one at a time



How to order

●Flat type/intake flow rate increase type

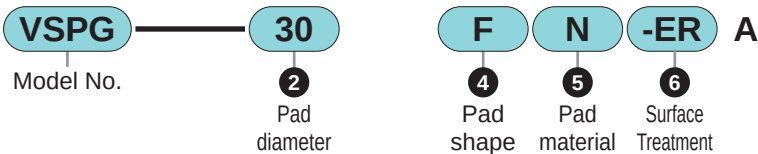
Suction pad



Pad rubber only



Pad rubber + Set with fixing screw



1 Holder type

With/without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact		MA	
	Standard	Lateral direction	B	
	Compact		MB	
	Low height	Both lateral directions	HEW	
Buffer type	Standard	Upward direction	C	
	Compact		MC	
	Low dust generation		LFC	
	Lightweight	Lateral direction	HC	
	Standard		D	
	Compact		MD	
	Low dust generation	Both lateral directions	LFD	
	Standard		HD	
	Lightweight		HDW	
	Standard	Direct mounting	F	

4 Pad shape

Code	Description	
F	Flat	
FH	Flat intake flow rate Growth type	

5 Pad material

Code	Description
N	Nitrile rubber
S	Silicone rubber
U	Urethane rubber
F	Fluoro rubber
SE	Conductive silicone rubber
NE	Conductive NBR (low resistance)

*1: 4 For FH, 5 U cannot be selected.

3 Stroke option

Description	Holder type					Code
	C	D	HC	LFC	LFD	
Specified stroke or without buffer	●	●				Blank
Stroke 2 mm				●		-2
Stroke 5 mm				●	●	-5
Stroke 10 mm	●	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	●	-20
Stroke 25 mm			●			-25
Stroke 30 mm	●	●	●			-30
Stroke 40 mm	●	●	●			-40
Stroke 50 mm	●	●	●			-50

*1: 1 Other than C, D, HC, LFC, LFD, 3 is blank.

*2: 3 For blank designated strokes, check the stroke dimensions with the O.D. dimensions.

*3: 2 For 10 and 15, 3 -2 can be selected.

6 Surface-treated

Description	Compatible pad material					Supported pad diameter	Code
	N	S	F	SE	NE	Flat (F/FH)	
No surface treatment						All pads material, all pad diameters	Blank
Anti-stick special coating		●	●	●		All sizes	-DL
Suction mark reduction surface modification	●				●	All sizes	-ER
Fluorine coating		●		●		All sizes	-FG

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - **P4***

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - **FP***

7 Port size/shape

Description	Holder type														Code	
	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW	
(1: When F)																Blank
ø1.8 push-in fitting						●	●	●			●	●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4
ø6 push-in fitting	●	●	●	●		●		●	●	●	●	●	●	●	●	6
ø4 Push-in fitting, without spring cover			●	●												4C
ø6 Push-in fitting, without spring cover			●	●												6C
ø4 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●												4TC
ø6 Barbed fitting, without spring cover			●	●												6TC

*1: 1 C, D 3 -20 up-For 50, 4C, 6C, 4TC, 6TC can be selected.

*2: 2 The port size and shape that can be selected differ depending on the pad diameter. Check with the combination table below.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1: 1 Blank for 8 except for LFC.

*2: When 3 -2, 8 is blank.

9 Swiveling pad

Code	Description	
Blank	None	
F1	With free holder swing angle 30°	
F2	With free holder swing angle 15°	
CF	With flexible holder angle 8°	

10 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

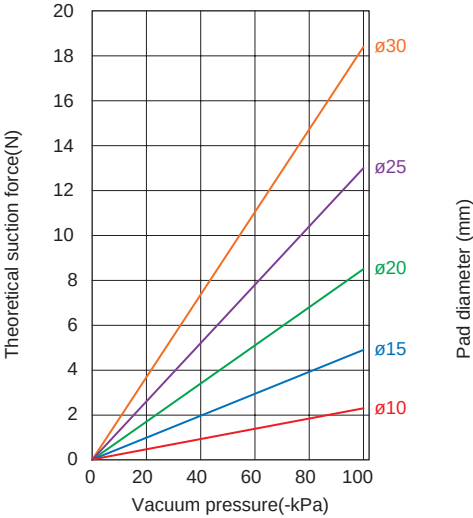
Holder shape - pad diameter - pad shape - port size/shape combinations

Holder type	Pad diameter	Push-in fitting				Barbed fitting			
		ø4		ø6		ø4		ø6	
		4	4C	6	6C	4T	4TC	6T	6TC
A	ø10, ø15			●				●	
	ø20 to ø30	●		●		●		●	
B	All sizes	●		●		●		●	
C	All sizes	●	●	●	●	●	●	●	●
D	All sizes	●	●	●	●	●	●	●	●

Holder type	Pad diameter	Thread
		M14
F	All sizes	●

Holder type	Pad diameter	Push-in fitting			Barbed fitting	
		ø1.8	ø4	ø6	ø4	ø6
		2	4	6	4T	6T
MA	ø10, ø15		●		●	
	ø20 to ø30		●		●	●
MB	All sizes	●	●	●	●	●
MC	All sizes	●	●		●	●
MD	All sizes	●	●	●	●	●
LFC	ø10, ø15		●		●	●
	ø20 to ø30		●	●	●	●
LFD	ø10, ø15		●		●	●
	ø20 to ø30		●	●	●	●
HC	All sizes	●	●	●	●	●
HD	All sizes	●	●	●	●	●
HDW	All sizes	●	●	●	●	●
HE	All sizes	●	●	●	●	●
HEW	All sizes	●	●	●	●	●

Theoretical suction force

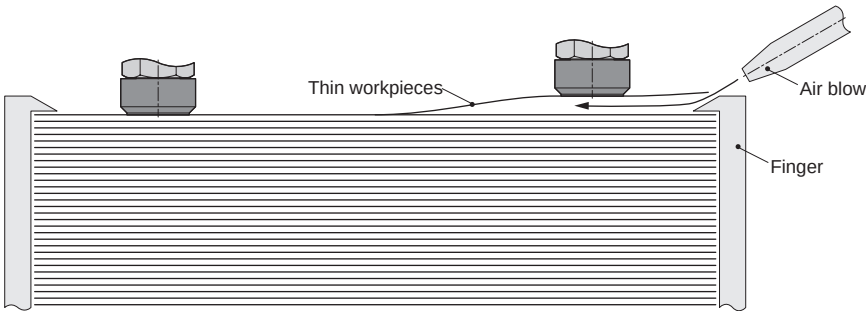


*1: Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use.

Reference materials for use

When suctioning multiple thin stacked workpieces

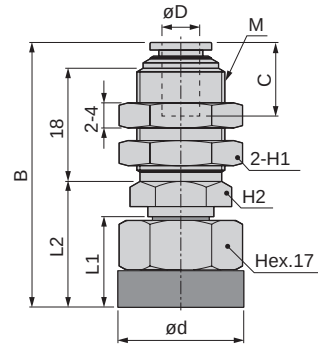
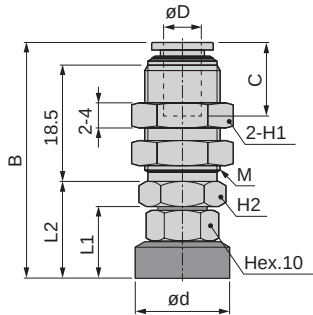
Since multiple workpieces may be suctioned at once, it is necessary to use a small-diameter pad and further lower the vacuum pressure. Moreover, one way to prevent suction of multiple workpieces is to use air blow and claw as shown in the figure below.



Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

●VSP-A10, 15F(FH)*-6

●VSP-A20 to 30F(FH)*-4/6



Unit: mm

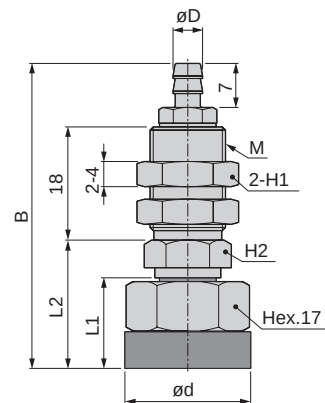
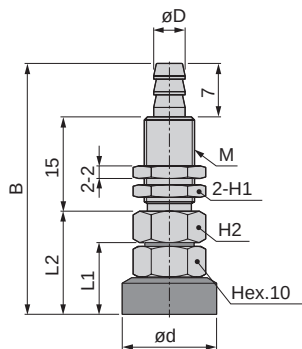
Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10F (FH)*-6	10	6	M 12 x 1	37.7 (35.9)	11.4 (9.6)	15.4 (13.6)	11.9	14	12	25 (24)
VSP-A15F (FH)*-6	15	6	M 12 x 1	37.7 (35.9)	11.4 (9.6)	15.4 (13.6)	11.9	14	12	25 (24)
VSP-A20F (FH)*-4	20	4	M 12 x 1	51.2 (46.4)	14.3 (9.5)	20.3 (15.5)	11.2	14	12	48 (38)
VSP-A20F (FH)*-6		6	M 14 x 1	42.2 (37.4)		19.9 (15.1)	11.9	17	14	54 (44)
VSP-A25F (FH)*-4	25	4	M 12 x 1	51.2 (46.4)	14.3 (9.5)	20.3 (15.5)	11.2	14	12	49 (39)
VSP-A25F (FH)*-6		6	M 14 x 1	42.2 (37.4)		19.9 (15.1)	11.9	17	14	55 (45)
VSP-A30F (FH)*-4	30	4	M 12 x 1	51.2 (46.4)	14.3 (9.5)	20.3 (15.5)	11.2	14	12	49 (39)
VSP-A30F (FH)*-6		6	M 14 x 1	42.2 (37.4)		19.9 (15.1)	11.9	17	14	55 (45)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (fixed, vacuum outlet top VSP-A, barbed fitting)

●VSP-A10, 15F(FH)*-6T

●VSP-A20 to 30F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10F (FH)*-6T	10	6	M 8 x 0.75	38.4 (36.6)	11.4 (9.6)	16.4 (14.6)	10	10	15 (14)
VSP-A15F (FH)*-6T	15	6	M 8 x 0.75	38.4 (36.6)	11.4 (9.6)	16.4 (14.6)	10	10	16 (15)
VSP-A20F (FH)*-4T	20	4	M 12 x 1	48.3 (43.5)	14.3 (9.5)	20.3 (15.5)	14	12	47 (37)
VSP-A20F (FH)*-6T		6							
VSP-A25F (FH)*-4T	25	4	M 12 x 1	48.3 (43.5)	14.3 (9.5)	20.3 (15.5)	14	12	48 (38)
VSP-A25F (FH)*-6T		6							
VSP-A30F (FH)*-4T	30	4	M 12 x 1	48.3 (43.5)	14.3 (9.5)	20.3 (15.5)	14	12	49 (39)
VSP-A30F (FH)*-6T		6							

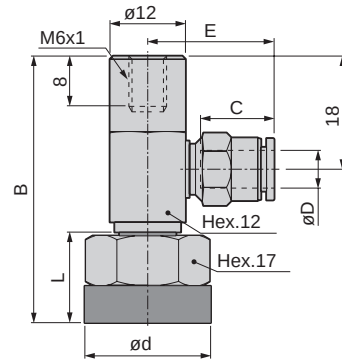
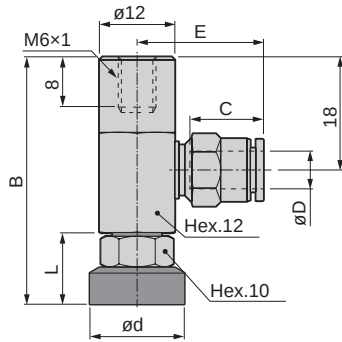
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

●VSP-B10, 15F(FH)*-4/6

●VSP-B20 to 30F(FH)*-4/6



Unit: mm

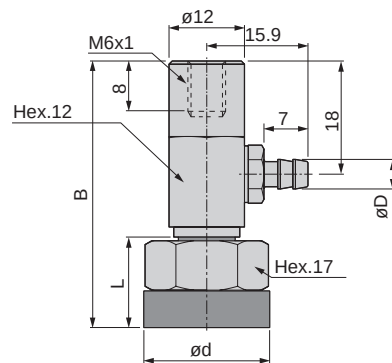
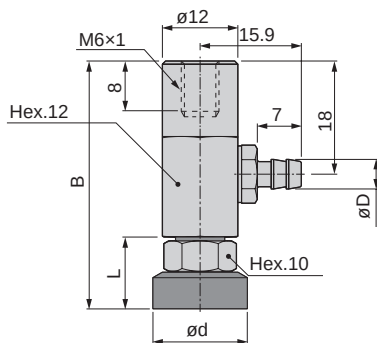
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B10F (FH)*-4	10	4	39.4 (37.6)	11.4 (9.6)	11.2	18.8	33 (32)
VSP-B10F (FH)*-6		6			11.9	20.1	34 (33)
VSP-B15F (FH)*-4	15	4	39.4 (37.6)	11.4 (9.6)	11.2	18.8	33 (32)
VSP-B15F (FH)*-6		6			11.9	20.1	34 (33)
VSP-B20F (FH)*-4	20	4	42.3 (37.5)	14.3 (9.5)	11.2	18.8	50 (40)
VSP-B20F (FH)*-6		6			11.9	20.1	51 (41)
VSP-B25F (FH)*-4	25	4	42.3 (37.5)	14.3 (9.5)	11.2	18.8	51 (41)
VSP-B25F (FH)*-6		6			11.9	20.1	52 (42)
VSP-B30F (FH)*-4	30	4	42.3 (37.5)	14.3 (9.5)	11.2	18.8	52 (42)
VSP-B30F (FH)*-6		6			11.9	20.1	53 (43)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (fixed, vacuum outlet side VSP-B, barbed fitting)

●VSP-B10, 15F(FH)*-4T/6T

●VSP-B20 to 30F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-B10F (FH)*-4T	10	2.5	39.4 (37.6)	11.4 (9.6)	32 (31)
VSP-B10F (FH)*-6T		4			
VSP-B15F (FH)*-4T	15	2.5	39.4 (37.6)	11.4 (9.6)	33 (32)
VSP-B15F (FH)*-6T		4			
VSP-B20F (FH)*-4T	20	2.5	42.3 (37.5)	14.3 (9.5)	49 (39)
VSP-B20F (FH)*-6T		4			
VSP-B25F (FH)*-4T	25	2.5	42.3 (37.5)	14.3 (9.5)	50 (40)
VSP-B25F (FH)*-6T		4			
VSP-B30F (FH)*-4T	30	2.5	42.3 (37.5)	14.3 (9.5)	51 (41)
VSP-B30F (FH)*-6T		4			

*1: Values in () are dimensions of the flat intake flow rate increase type.

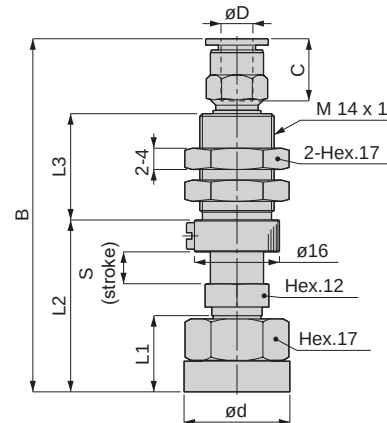
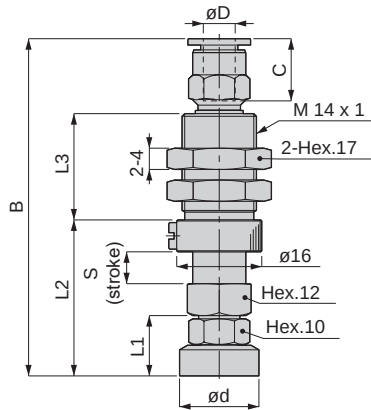
VSP-*F, FH* Series

Dimensions

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C10, 15F(FH)*-4/6
- VSP-C10, 15-□F(F)*-4/6

- VSP-C20 to 30F(FH)*-4/6
- VSP-C20 to 30-□F(FH)*-4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C10F (FH)*-4	10	4	62.4 (60.6)	11.4 (9.6)	29.4 (27.6)	20	11.2	6	4.0 to 7.1	38 (37)
VSP-C10F (FH)*-6		6	63.7 (61.9)				11.9			39 (38)
VSP-C10-10F (FH)*-4		4	66.9 (65.1)		33.9 (32.1)		11.2	10	2.0 to 5.2	40 (39)
VSP-C10-10F (FH)*-6		6	68.2 (66.4)							11.9
VSP-C10-15F (FH)*-4		4	76.9 (75.1)		38.9 (37.1)	25	11.2	15	2.0 to 5.9	45 (44)
VSP-C10-15F (FH)*-6		6	78.2 (76.4)							11.9
VSP-C10-20F (FH)*-4		4	92.9 (91.1)		45.9 (44.1)	34	11.2	20	1.1 to 4.8	52 (51)
VSP-C10-20F (FH)*-6		6	94.2 (92.4)							11.9
VSP-C15F (FH)*-4	15	4	62.4 (60.6)	11.4 (9.6)	29.4 (27.6)	20	11.2	6	4.0 to 7.1	39 (38)
VSP-C15F (FH)*-6		6	63.7 (61.9)				11.9			40 (39)
VSP-C15-10F (FH)*-4		4	66.9 (65.1)		33.9 (32.1)		11.2	10	2.0 to 5.2	40 (39)
VSP-C15-10F (FH)*-6		6	68.2 (66.4)							11.9
VSP-C15-15F (FH)*-4		4	76.9 (75.1)		38.9 (37.1)	25	11.2	15	2.0 to 5.9	45 (44)
VSP-C15-15F (FH)*-6		6	78.2 (76.4)							11.9
VSP-C15-20F (FH)*-4		4	92.9 (91.1)		45.9 (44.1)	34	11.2	20	1.1 to 4.8	52 (51)
VSP-C15-20F (FH)*-6		6	94.2 (92.4)							11.9
VSP-C20F (FH)*-4	20	4	65.3 (60.5)	14.3 (9.5)	32.3 (27.5)	20	11.2	6	7.0 to 12.6	56 (46)
VSP-C20F (FH)*-6		6	66.6 (61.8)				11.9			57 (47)
VSP-C20-10F (FH)*-4		4	71.3 (66.5)		38.3 (33.5)		11.2	10	3.3 to 10.0	59 (49)
VSP-C20-10F (FH)*-6		6	72.6 (67.8)							11.9
VSP-C20-15F (FH)*-4		4	81.3 (76.5)		43.3 (38.5)	25	11.2	15	3.3 to 10.4	64 (54)
VSP-C20-15F (FH)*-6		6	82.6 (77.8)							11.9
VSP-C20-20F (FH)*-4		4	97.3 (92.5)		50.3 (45.5)	34	11.2	20	2.0 to 8.7	70 (60)
VSP-C20-20F (FH)*-6		6	98.6 (93.8)							11.9
VSP-C25F (FH)*-4	25	4	65.3 (60.5)	14.3 (9.5)	32.3 (27.5)	20	11.2	6	7.0 to 12.6	57 (47)
VSP-C25F (FH)*-6		6	66.6 (61.8)				11.9			58 (48)
VSP-C25-10F (FH)*-4		4	71.3 (66.5)		38.3 (33.5)		11.2	10	3.3 to 10.0	60 (50)
VSP-C25-10F (FH)*-6		6	72.6 (67.8)							11.9
VSP-C25-15F (FH)*-4		4	81.3 (76.5)		43.3 (38.5)	25	11.2	15	3.3 to 10.4	65 (55)
VSP-C25-15F (FH)*-6		6	82.6 (77.8)							11.9
VSP-C25-20F (FH)*-4		4	97.3 (92.5)		50.3 (45.5)	34	11.2	20	2.0 to 8.7	71 (61)
VSP-C25-20F (FH)*-6		6	98.6 (93.8)							11.9
VSP-C30F (FH)*-4	30	4	65.3 (60.5)	14.3 (9.5)	32.3 (27.5)	20	11.2	6	7.0 to 12.6	58 (48)
VSP-C30F (FH)*-6		6	66.6 (61.8)				11.9			59 (49)
VSP-C30-10F (FH)*-4		4	71.3 (66.5)		38.3 (33.5)		11.2	10	3.3 to 10.0	60 (50)
VSP-C30-10F (FH)*-6		6	72.6 (67.8)							11.9
VSP-C30-15F (FH)*-4		4	81.3 (76.5)		43.3 (38.5)	25	11.2	15	3.3 to 10.4	65 (55)
VSP-C30-15F (FH)*-6		6	82.6 (77.8)							11.9
VSP-C30-20F (FH)*-4		4	97.3 (92.5)		50.3 (45.5)	34	11.2	20	2.0 to 8.7	71 (61)
VSP-C30-20F (FH)*-6		6	98.6 (93.8)							11.9

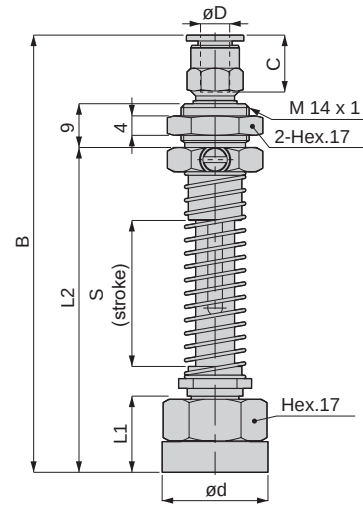
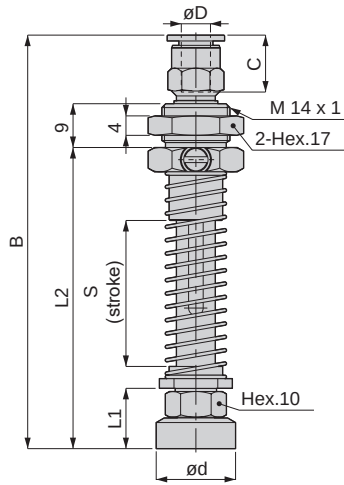
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C10, 15-□F(FH)*-4C/6C

●VSP-C20 to 30-□F(FH)*-4C/6C



Unit: mm

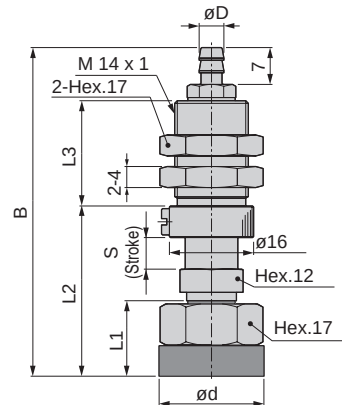
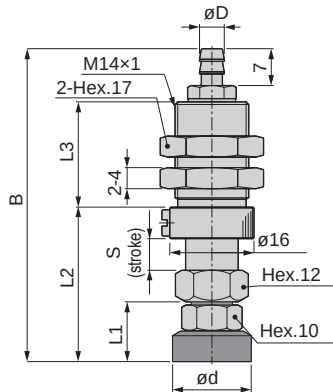
	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-C10-20F (FH)*-4C	10	4	69.9 (68.1)	11.4 (9.6)	47.9 (46.1)	11.2	20	1.5 to 4.9	47 (46)
	VSP-C10-20F (FH)*-6C		6	71.2 (69.4)			11.9			48 (47)
Sponge	VSP-C10-30F (FH)*-4C		4	82.9 (81.1)		60.9 (59.1)	11.2	30	1.1 to 4.8	53 (52)
	VSP-C10-30F (FH)*-6C		6	84.2 (82.4)			11.9			54 (53)
Bellows	VSP-C10-40F (FH)*-4C		4	95.9 (94.1)		73.9 (72.1)	11.2	40	1.0 to 4.5	58 (57)
	VSP-C10-40F (FH)*-6C		6	97.2 (95.4)			11.9			59 (58)
	VSP-C10-50F (FH)*-4C		4	108.9 (107.1)		86.9 (85.1)	11.2	50	0.9 to 4.5	63 (62)
	VSP-C10-50F (FH)*-6C		6	110.2 (108.4)			11.9			64 (63)
Multi-stage bellows	VSP-C15-20F (FH)*-4C	15	4	69.9 (68.1)	11.4 (9.6)	47.9 (46.1)	11.2	20	1.5 to 4.9	49 (48)
	VSP-C15-20F (FH)*-6C		6	71.2 (69.4)			11.9			50 (49)
	VSP-C15-30F (FH)*-4C		4	82.9 (81.1)		60.9 (59.1)	11.2	30	1.1 to 4.8	55 (54)
	VSP-C15-30F (FH)*-6C		6	84.2 (82.4)			11.9			56 (55)
Oval	VSP-C15-40F (FH)*-4C		4	95.9 (94.1)		73.9 (72.1)	11.2	40	1.0 to 4.5	60 (59)
	VSP-C15-40F (FH)*-6C		6	97.2 (95.4)			11.9			61 (60)
	VSP-C15-50F (FH)*-4C		4	108.9 (107.1)		86.9 (85.1)	11.2	50	0.9 to 4.5	65 (64)
	VSP-C15-50F (FH)*-6C		6	110.2 (108.4)			11.9			66 (65)
Soft	VSP-C20-20F (FH)*-4C	20	4	74.3 (69.5)	14.3 (9.5)	52.3 (47.5)	11.2	20	1.5 to 4.9	66 (56)
	VSP-C20-20F (FH)*-6C		6	75.6 (70.8)			11.9			67 (57)
Soft bellows	VSP-C20-30F (FH)*-4C		4	87.3 (82.5)		65.3 (60.5)	11.2	30	1.1 to 4.8	71 (61)
	VSP-C20-30F (FH)*-6C		6	88.6 (83.8)			11.9			72 (62)
Anti-slip	VSP-C20-40F (FH)*-4C		4	100.3 (95.5)		78.3 (73.5)	11.2	40	1.0 to 4.5	77 (67)
	VSP-C20-40F (FH)*-6C		6	101.6 (96.8)			11.9			78 (77)
Thin object	VSP-C20-50F (FH)*-4C		4	113.3 (108.5)		91.3 (86.5)	11.2	50	0.9 to 4.5	82 (72)
	VSP-C20-50F (FH)*-6C		6	114.6 (109.8)			11.9			83 (73)
Flat	VSP-C25-20F (FH)*-4C	25	4	74.3 (69.5)	14.3 (9.5)	52.3 (47.5)	11.2	20	1.5 to 4.9	67 (57)
	VSP-C25-20F (FH)*-6C		6	75.6 (70.8)			11.9			68 (58)
	VSP-C25-30F (FH)*-4C		4	87.3 (82.5)		65.3 (60.5)	11.2	30	1.1 to 4.8	72 (62)
	VSP-C25-30F (FH)*-6C		6	88.6 (83.8)			11.9			73 (63)
	VSP-C25-40F (FH)*-4C		4	100.3 (95.5)		78.3 (73.5)	11.2	40	1.0 to 4.5	78 (68)
	VSP-C25-40F (FH)*-6C		6	101.6 (96.8)			11.9			79 (69)
	VSP-C25-50F (FH)*-4C		4	113.3 (108.5)		91.3 (86.5)	11.2	50	0.9 to 4.5	83 (73)
	VSP-C25-50F (FH)*-6C		6	114.6 (109.8)			11.9			84 (74)
Suction mark prevention	VSP-C30-20F (FH)*-4C	30	4	74.3 (69.5)	14.3 (9.5)	52.3 (47.5)	11.2	20	1.5 to 4.9	67 (57)
	VSP-C30-20F (FH)*-6C		6	75.6 (70.8)			11.9			68 (58)
	VSP-C30-30F (FH)*-4C		4	87.3 (82.5)		65.3 (60.5)	11.2	30	1.1 to 4.8	72 (62)
	VSP-C30-30F (FH)*-6C		6	88.6 (83.8)			11.9			73 (63)
	VSP-C30-40F (FH)*-4C		4	100.3 (95.5)		78.3 (73.5)	11.2	40	1.0 to 4.5	78 (68)
	VSP-C30-40F (FH)*-6C		6	101.6 (96.8)			11.9			79 (69)
	VSP-C30-50F (FH)*-4C		4	113.3 (108.5)		91.3 (86.5)	11.2	50	0.9 to 4.5	83 (73)
	VSP-C30-50F (FH)*-6C		6	114.6 (109.8)			11.9			84 (74)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

- VSP-C10, 15F(FH)*-4T/6T
- VSP-C10, 15-□F(FH)*-4T/6T

- VSP-C20 to 30F(FH)*-4T/6T
- VSP-C20 to 30-□F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C10F (FH)*-4T	10	4	59.5 (57.7)	11.4 (9.6)	29.4 (27.6)	20	6	4.0 to 7.1	34 (33)
VSP-C10F (FH)*-6T		6					10	2.0 to 5.2	35 (34)
VSP-C10-10F (FH)*-4T		4	64 (62.2)		33.9 (32.1)	25	15	2.0 to 5.9	41 (40)
VSP-C10-10F (FH)*-6T		6					20	1.1 to 4.8	48 (47)
VSP-C10-15F (FH)*-4T		4	74 (72.2)		38.9 (37.1)	34	6	7.0 to 12.6	38 (37)
VSP-C10-15F (FH)*-6T		6					10	3.3 to 10.0	40 (39)
VSP-C10-20F (FH)*-4T		4	90 (88.2)		45.9 (44.1)	20	15	3.3 to 10.4	45 (44)
VSP-C10-20F (FH)*-6T		6					20	2.0 to 8.7	52 (51)
VSP-C15F (FH)*-4T	15	4	59.5 (57.7)	11.4 (9.6)	29.4 (27.6)	20	6	7.0 to 12.6	38 (37)
VSP-C15F (FH)*-6T		6					10	3.3 to 10.0	40 (39)
VSP-C15-10F (FH)*-4T		4	64 (62.2)		33.9 (32.1)	25	15	3.3 to 10.4	45 (44)
VSP-C15-10F (FH)*-6T		6					20	2.0 to 8.7	52 (51)
VSP-C15-15F (FH)*-4T		4	74 (72.2)		38.9 (37.1)	34	6	7.0 to 12.6	38 (37)
VSP-C15-15F (FH)*-6T		6					10	3.3 to 10.0	40 (39)
VSP-C15-20F (FH)*-4T		4	90 (88.2)		45.9 (44.1)	20	15	3.3 to 10.4	45 (44)
VSP-C15-20F (FH)*-6T		6					20	2.0 to 8.7	52 (51)
VSP-C20F (FH)*-4T	20	4	62.4 (57.6)	14.3 (9.5)	32.3 (27.5)	20	6	7.0 to 12.6	42 (32)
VSP-C20F (FH)*-6T		6					10	3.3 to 10.0	44 (34)
VSP-C20-10F (FH)*-4T		4	68.4 (63.6)		38.3 (33.5)	25	15	3.3 to 10.4	49 (39)
VSP-C20-10F (FH)*-6T		6					20	2.0 to 8.7	56 (46)
VSP-C20-15F (FH)*-4T		4	78.4 (73.6)		43.3 (38.5)	34	6	7.0 to 12.6	50 (40)
VSP-C20-15F (FH)*-6T		6					10	3.3 to 10.0	53 (43)
VSP-C20-20F (FH)*-4T		4	94.4 (89.6)		50.3 (45.5)	20	15	3.3 to 10.4	58 (48)
VSP-C20-20F (FH)*-6T		6					20	2.0 to 8.7	64 (54)
VSP-C25F (FH)*-4T	25	4	62.4 (57.6)	14.3 (9.5)	32.3 (27.5)	20	6	7.0 to 12.6	50 (40)
VSP-C25F (FH)*-6T		6					10	3.3 to 10.0	53 (43)
VSP-C25-10F (FH)*-4T		4	68.4 (63.6)		38.3 (33.5)	25	15	3.3 to 10.4	58 (48)
VSP-C25-10F (FH)*-6T		6					20	2.0 to 8.7	64 (54)
VSP-C25-15F (FH)*-4T		4	78.4 (73.6)		43.3 (38.5)	34	6	7.0 to 12.6	50 (40)
VSP-C25-15F (FH)*-6T		6					10	3.3 to 10.0	53 (43)
VSP-C25-20F (FH)*-4T		4	94.4 (89.6)		50.3 (45.5)	20	15	3.3 to 10.4	58 (48)
VSP-C25-20F (FH)*-6T		6					20	2.0 to 8.7	64 (54)
VSP-C30F (FH)*-4T	30	4	62.4 (57.6)	14.3 (9.5)	32.3 (27.5)	20	6	7.0 to 12.6	57 (47)
VSP-C30F (FH)*-6T		6					10	3.3 to 10.0	59 (49)
VSP-C30-10F (FH)*-4T		4	68.4 (63.6)		38.3 (33.5)	25	15	3.3 to 10.4	64 (54)
VSP-C30-10F (FH)*-6T		6					20	2.0 to 8.7	71 (61)
VSP-C30-15F (FH)*-4T		4	78.4 (73.6)		43.3 (38.5)	34	6	7.0 to 12.6	57 (47)
VSP-C30-15F (FH)*-6T		6					10	3.3 to 10.0	59 (49)
VSP-C30-20F (FH)*-4T		4	94.4 (89.6)		50.3 (45.5)	20	15	3.3 to 10.4	64 (54)
VSP-C30-20F (FH)*-6T		6					20	2.0 to 8.7	71 (61)

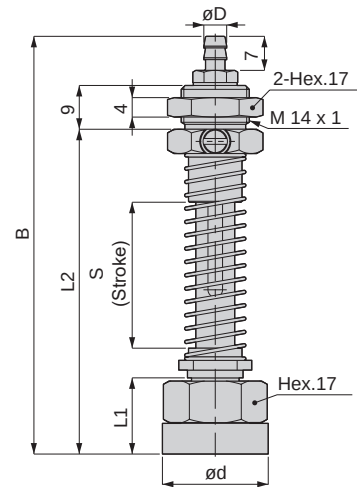
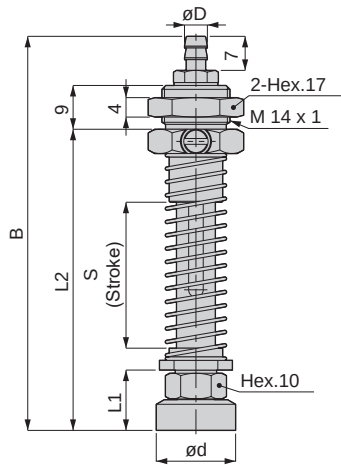
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C10, 15-□F(FH)*-4TC/6TC

●VSP-C20 to 30-□F(FH)*-4TC/6TC



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)					
General/Deep/ Compact	VSP-C10-20F (FH)*-4TC	10	4	67 (65.2)	11.4 (9.6)	47.9 (46.1)	20	1.5 to 4.9	45 (44)					
	VSP-C10-20F (FH)*-6TC		6											
Sponge	VSP-C10-30F (FH)*-4TC		4	80 (78.2)		60.9 (59.1)	30	1.1 to 4.8	51 (50)					
	VSP-C10-30F (FH)*-6TC		6											
Bellows	VSP-C10-40F (FH)*-4TC		4	93 (91.2)		73.9 (72.1)	40	1.0 to 4.5	56 (55)					
	VSP-C10-40F (FH)*-6TC		6											
	VSP-C10-50F (FH)*-4TC		4	106 (104.2)		86.9 (85.1)	50	0.9 to 4.5	61 (60)					
	VSP-C10-50F (FH)*-6TC		6											
Multi-stage bellows	VSP-C15-20F (FH)*-4TC	15	4	67 (65.2)	11.4 (9.6)	47.9 (46.1)	20	1.5 to 4.9	47 (46)					
	VSP-C15-20F (FH)*-6TC		6											
	VSP-C15-30F (FH)*-4TC		4							80 (78.2)	60.9 (59.1)	30	1.1 to 4.8	53 (52)
	VSP-C15-30F (FH)*-6TC		6											
Oval	VSP-C15-40F (FH)*-4TC		4	93 (91.2)		73.9 (72.1)	40	1.0 to 4.5	58 (57)					
	VSP-C15-40F (FH)*-6TC		6											
	VSP-C15-50F (FH)*-4TC		4	106 (104.2)						86.9 (85.1)	50	0.9 to 4.5	63 (62)	
	VSP-C15-50F (FH)*-6TC		6											
Soft	VSP-C20-20F (FH)*-4TC	20	4	71.4 (66.6)	14.3 (9.5)	52.3 (48.5)	20	1.5 to 4.9	65 (55)					
	VSP-C20-20F (FH)*-6TC		6											
Soft bellows	VSP-C20-30F (FH)*-4TC		4	84.4 (79.6)		65.3 (61.5)	30	1.1 to 4.8	70 (60)					
	VSP-C20-30F (FH)*-6TC		6											
	VSP-C20-40F (FH)*-4TC		4	97.4 (92.6)						78.3 (74.5)	40	1.0 to 4.5	75 (65)	
	VSP-C20-40F (FH)*-6TC		6											
Anti-slip	VSP-C20-50F (FH)*-4TC		4	110.4 (105.6)		91.3 (87.5)	50	0.9 to 4.5	81 (71)					
	VSP-C20-50F (FH)*-6TC		6											
Thin object	VSP-C25-20F (FH)*-4TC	25	4	71.4 (66.6)	14.3 (9.5)	52.3 (48.5)	20	1.5 to 4.9	66 (56)					
	VSP-C25-20F (FH)*-6TC		6											
	VSP-C25-30F (FH)*-4TC		4	84.4 (79.6)		65.3 (61.5)	30	1.1 to 4.8	71 (61)					
	VSP-C25-30F (FH)*-6TC		6											
	VSP-C25-40F (FH)*-4TC		4	97.4 (92.6)		78.3 (74.5)	40	1.0 to 4.5	76 (66)					
	VSP-C25-40F (FH)*-6TC		6											
Flat	VSP-C25-50F (FH)*-4TC		4	110.4 (105.6)		91.3 (87.5)	50	0.9 to 4.5	82 (72)					
	VSP-C25-50F (FH)*-6TC		6											
Suction mark prevention	VSP-C30-20F (FH)*-4TC	30	4	71.4 (66.6)	14.3 (9.5)	52.3 (48.5)	20	1.5 to 4.9	66 (56)					
	VSP-C30-20F (FH)*-6TC		6											
	VSP-C30-30F (FH)*-4TC		4	84.4 (79.6)		65.3 (61.5)	30	1.1 to 4.8	71 (61)					
	VSP-C30-30F (FH)*-6TC		6											
	VSP-C30-40F (FH)*-4TC		4	97.4 (92.6)		78.3 (74.5)	40	1.0 to 4.5	76 (66)					
	VSP-C30-40F (FH)*-6TC		6											
	VSP-C30-50F (FH)*-4TC		4	110.4 (105.6)		91.3 (87.5)	50	0.9 to 4.5	82 (72)					
	VSP-C30-50F (FH)*-6TC		6											

*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions

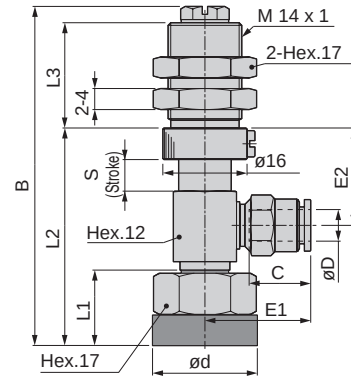
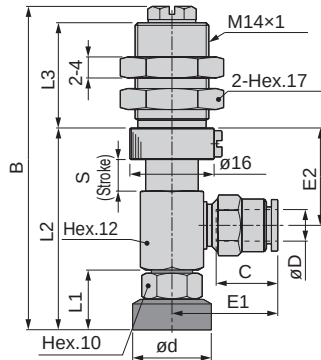
Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

●VSP-D10, 15F(FH)*-4/6

●VSP-D10, 15-□F(FH)*-4/6

●VSP-D20 to 30F(FH)*-4/6

●VSP-D20 to 30-□F(FH)*-4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10F (FH)*-4	10	4	61.5 (59.7)	11.4 (9.6)	38.4 (36.6)	20	11.2	18.8	18.5	6	4.0 to 7.1	50 (49)
VSP-D10F (FH)*-6		6					11.9	20.1				51 (50)
VSP-D10-10F (FH)*-4		4	66.5 (64.7)		43.4 (41.6)	25	11.2	18.8	25	10	2.0 to 5.2	53 (52)
VSP-D10-10F (FH)*-6		6					11.9	20.1				54 (53)
VSP-D10-15F (FH)*-4		4	76.5 (74.7)		48.4 (46.6)	25	11.2	18.8	30	15	2.0 to 5.9	59 (58)
VSP-D10-15F (FH)*-6		6					11.9	20.1				60 (59)
VSP-D10-20F (FH)*-4		4	92.5 (90.7)		55.4 (53.6)	34	11.2	18.8	37	20	1.1 to 4.8	69 (68)
VSP-D10-20F (FH)*-6		6					11.9	20.1				70 (69)
VSP-D15F (FH)*-4	15	4	61.5 (59.7)	11.4 (9.6)	38.4 (36.6)	20	11.2	18.8	18.5	6	4.0 to 7.1	51 (50)
VSP-D15F (FH)*-6		6					11.9	20.1				52 (51)
VSP-D15-10F (FH)*-4		4	66.5 (64.7)		43.4 (41.6)	25	11.2	18.8	25	10	2.0 to 5.2	54 (53)
VSP-D15-10F (FH)*-6		6					11.9	20.1				55 (54)
VSP-D15-15F (FH)*-4		4	76.5 (74.7)		48.4 (46.6)	25	11.2	18.8	30	15	2.0 to 5.9	60 (59)
VSP-D15-15F (FH)*-6		6					11.9	20.1				61 (60)
VSP-D15-20F (FH)*-4		4	92.5 (90.7)		55.4 (53.6)	34	11.2	18.8	37	20	1.1 to 4.8	70 (69)
VSP-D15-20F (FH)*-6		6					11.9	20.1				71 (70)
VSP-D20F (FH)*-4	20	4	64.4 (59.6)	14.3 (9.5)	41.3 (36.5)	20	11.2	18.8	18.5	6	7.0 to 12.6	68 (58)
VSP-D20F (FH)*-6		6					11.9	20.1				69 (59)
VSP-D20-10F (FH)*-4		4	70.4 (65.6)		47.3 (42.5)	25	11.2	18.8	24.5	10	3.3 to 10.0	71 (61)
VSP-D20-10F (FH)*-6		6					11.9	20.1				72 (62)
VSP-D20-15F (FH)*-4		4	80.4 (75.6)		52.3 (47.5)	25	11.2	18.8	29.5	15	3.3 to 10.4	78 (68)
VSP-D20-15F (FH)*-6		6					11.9	20.1				79 (69)
VSP-D20-20F (FH)*-4		4	96.4 (91.6)		59.3 (54.5)	34	11.2	18.8	36.5	20	2.0 to 8.7	88 (78)
VSP-D20-20F (FH)*-6		6					11.9	20.1				89 (79)
VSP-D25F (FH)*-4	25	4	64.4 (59.6)	14.3 (9.5)	41.3 (36.5)	20	11.2	18.8	18.5	6	7.0 to 12.6	69 (59)
VSP-D25F (FH)*-6		6					11.9	20.1				70 (60)
VSP-D25-10F (FH)*-4		4	70.4 (65.6)		47.3 (42.5)	25	11.2	18.8	24.5	10	3.3 to 10.0	72 (62)
VSP-D25-10F (FH)*-6		6					11.9	20.1				73 (63)
VSP-D25-15F (FH)*-4		4	80.4 (75.6)		52.3 (47.5)	25	11.2	18.8	29.5	15	3.3 to 10.4	79 (69)
VSP-D25-15F (FH)*-6		6					11.9	20.1				80 (70)
VSP-D25-20F (FH)*-4		4	96.4 (91.6)		59.3 (54.5)	34	11.2	18.8	36.5	20	2.0 to 8.7	89 (79)
VSP-D25-20F (FH)*-6		6					11.9	20.1				90 (80)
VSP-D30F (FH)*-4	30	4	64.4 (59.6)	14.3 (9.5)	41.3 (36.5)	20	11.2	18.8	18.5	6	7.0 to 12.6	69 (59)
VSP-D30F (FH)*-6		6					11.9	20.1				70 (60)
VSP-D30-10F (FH)*-4		4	70.4 (65.6)		47.3 (42.5)	25	11.2	18.8	24.5	10	3.3 to 10.0	72 (82)
VSP-D30-10F (FH)*-6		6					11.9	20.1				73 (63)
VSP-D30-15F (FH)*-4		4	80.4 (75.6)		52.3 (47.5)	25	11.2	18.8	29.5	15	3.3 to 10.4	79 (69)
VSP-D30-15F (FH)*-6		6					11.9	20.1				80 (70)
VSP-D30-20F (FH)*-4		4	96.4 (91.6)		59.3 (54.5)	34	11.2	18.8	36.5	20	2.0 to 8.7	89 (79)
VSP-D30-20F (FH)*-6		6					11.9	20.1				90 (80)

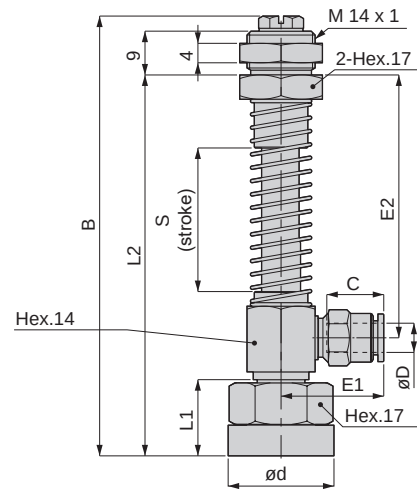
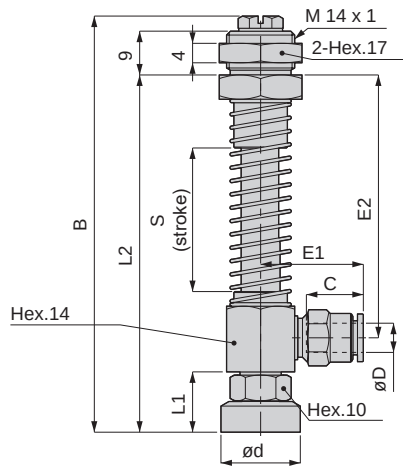
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D10, 15-□F(FH)*-4C/6C

●VSP-D20 to 30-□F(FH)*-4C/6C



Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-D10-20F (FH)*-4C	10	4	71.5 (69.7)	11.4 (9.6)	59.4 (57.6)	11.2	19.8	40.5	20	1.5 to 4.9	71 (70)
	VSP-D10-20F (FH)*-6C		6				11.9	21.1				72 (71)
Sponge	VSP-D10-30F (FH)*-4C		4	84.5 (82.7)		72.4 (70.6)	11.2	19.8	53.5	30	1.1 to 4.8	78 (77)
	VSP-D10-30F (FH)*-6C		6				11.9	21.1				79 (78)
Bellows	VSP-D10-40F (FH)*-4C		4	97.5 (95.7)		85.4 (83.6)	11.2	19.8	66.5	40	1.0 to 4.5	84 (83)
	VSP-D10-40F (FH)*-6C		6				11.9	21.1				85 (84)
	VSP-D10-50F (FH)*-4C		4	110.5 (108.7)		98.4 (96.6)	11.2	19.8	79.5	50	0.9 to 4.5	91 (90)
	VSP-D10-50F (FH)*-6C		6				11.9	21.1				92 (91)
Multi-stage bellows	VSP-D15-20F (FH)*-4C	15	4	71.5 (69.7)	11.4 (9.6)	59.4 (57.6)	11.2	19.8	40.5	20	1.5 to 4.9	72 (71)
	VSP-D15-20F (FH)*-6C		6				11.9	21.1				73 (72)
	VSP-D15-30F (FH)*-4C		4	84.5 (82.7)		72.4 (70.6)	11.2	19.8	53.5	30	1.1 to 4.8	79 (78)
	VSP-D15-30F (FH)*-6C		6				11.9	21.1				80 (79)
Oval	VSP-D15-40F (FH)*-4C		4	97.5 (95.7)		85.4 (83.6)	11.2	19.8	66.5	40	1.0 to 4.5	85 (84)
	VSP-D15-40F (FH)*-6C		6				11.9	21.1				86 (85)
	VSP-D15-50F (FH)*-4C		4	110.5 (108.7)		98.4 (96.6)	11.2	19.8	79.5	50	0.9 to 4.5	92 (91)
	VSP-D15-50F (FH)*-6C		6				11.9	21.1				93 (92)
Soft	VSP-D20-20F (FH)*-4C	20	4	75.9 (71.1)	14.3 (9.5)	63.8 (59)	11.2	19.8	41	20	1.5 to 4.9	76 (66)
	VSP-D20-20F (FH)*-6C		6				11.9	21.1				77 (67)
	VSP-D20-30F (FH)*-4C		4	88.9 (84.1)		76.8 (72)	11.2	19.8	54	30	1.1 to 4.8	83 (73)
	VSP-D20-30F (FH)*-6C		6				11.9	21.1				84 (74)
Soft bellows	VSP-D20-40F (FH)*-4C		4	101.9 (97.1)		89.8 (85)	11.2	19.8	67	40	1.0 to 4.5	100 (90)
	VSP-D20-40F (FH)*-6C		6				11.9	21.1				101 (91)
	VSP-D20-50F (FH)*-4C		4	114.9 (110.1)		102.8 (98)	11.2	19.8	80	50	0.9 to 4.5	107 (97)
	VSP-D20-50F (FH)*-6C		6				11.9	21.1				108 (98)
Anti-slip	VSP-D25-20F (FH)*-4C	25	4	75.9 (71.1)	14.3 (9.5)	63.8 (59)	11.2	19.8	41	20	1.5 to 4.9	77 (67)
	VSP-D25-20F (FH)*-6C		6				11.9	21.1				78 (68)
	VSP-D25-30F (FH)*-4C		4	88.9 (84.1)		76.8 (72)	11.2	19.8	54	30	1.1 to 4.8	84 (74)
	VSP-D25-30F (FH)*-6C		6				11.9	21.1				85 (75)
Thin object	VSP-D25-40F (FH)*-4C		4	101.9 (97.1)		89.8 (85)	11.2	19.8	67	40	1.0 to 4.5	101 (91)
	VSP-D25-40F (FH)*-6C		6				11.9	21.1				102 (92)
Flat	VSP-D25-50F (FH)*-4C		4	114.9 (110.1)		102.8 (98)	11.2	19.8	80	50	0.9 to 4.5	108 (98)
	VSP-D25-50F (FH)*-6C		6				11.9	21.1				109 (99)
Suction mark prevention	VSP-D30-20F (FH)*-4C	30	4	75.9 (71.1)	14.3 (9.5)	63.8 (59)	11.2	19.8	41	20	1.5 to 4.9	77 (67)
	VSP-D30-20F (FH)*-6C		6				11.9	21.1				78 (68)
	VSP-D30-30F (FH)*-4C		4	88.9 (84.1)		76.8 (72)	11.2	19.8	54	30	1.1 to 4.8	84 (74)
	VSP-D30-30F (FH)*-6C		6				11.9	21.1				85 (75)
	VSP-D30-40F (FH)*-4C		4	101.9 (97.1)		89.8 (85)	11.2	19.8	67	40	1.0 to 4.5	101 (91)
	VSP-D30-40F (FH)*-6C		6				11.9	21.1				102 (92)
	VSP-D30-50F (FH)*-4C		4	114.9 (110.1)		102.8 (98)	11.2	19.8	80	50	0.9 to 4.5	108 (98)
	VSP-D30-50F (FH)*-6C		6				11.9	21.1				109 (99)

*1: Values in () are dimensions of the flat intake flow rate increase type.

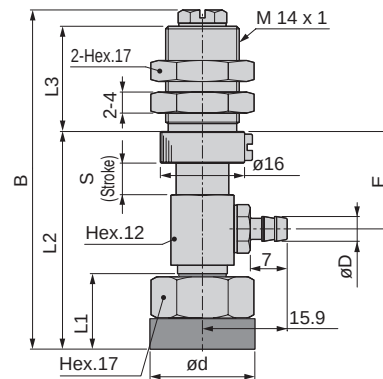
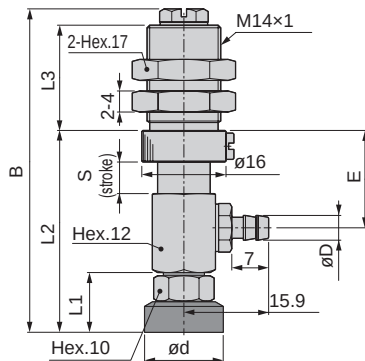
VSP-*F, FH* Series

Dimensions

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting)

- VSP-D10, 15F(FH)*-4T/6T
- VSP-D10, 15-□F(FH)*-4T/6T

- VSP-D20 to 30F(FH)*-4T/6T
- VSP-D20 to 30-□F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D10F (FH)*-4T	10	2.5	61.5 (59.7)	11.4 (9.6)	38.4 (36.6)	20	18.5	6	4.0 to 7.1	49 (48)
VSP-D10F (FH)*-6T		4					25	10	2.0 to 5.2	53 (52)
VSP-D10-10F (FH)*-4T		2.5	66.5 (64.7)		43.4 (41.6)	25	30	15	2.0 to 5.9	58 (57)
VSP-D10-10F (FH)*-6T		4								
VSP-D10-15F (FH)*-4T		2.5	76.5 (74.7)		48.4 (46.6)	34	37	20	1.1 to 4.8	69 (68)
VSP-D10-15F (FH)*-6T		4								
VSP-D10-20F (FH)*-4T		2.5	92.5 (90.7)		55.4 (53.6)	37	20	1.1 to 4.8	69 (68)	
VSP-D10-20F (FH)*-6T		4								
VSP-D15F (FH)*-4T	15	2.5	61.5 (59.7)	11.4 (9.6)	38.4 (36.6)	20	18.5	6	4.0 to 7.1	50 (49)
VSP-D15F (FH)*-6T		4					25	10	2.0 to 5.2	53 (52)
VSP-D15-10F (FH)*-4T		2.5	66.5 (64.7)		43.4 (41.6)	25	30	15	2.0 to 5.9	58 (57)
VSP-D15-10F (FH)*-6T		4								
VSP-D15-15F (FH)*-4T		2.5	76.5 (74.7)		48.4 (46.6)	34	37	20	1.1 to 4.8	69 (68)
VSP-D15-15F (FH)*-6T		4								
VSP-D15-20F (FH)*-4T		2.5	92.5 (90.7)		55.4 (53.6)	37	20	1.1 to 4.8	69 (68)	
VSP-D15-20F (FH)*-6T		4								
VSP-D20F (FH)*-4T	20	2.5	64.4 (59.6)	14.3 (9.5)	41.3 (36.5)	20	18.5	6	7.0 to 12.6	66 (56)
VSP-D20F (FH)*-6T		4					24.5	10	3.3 to 10.0	71 (61)
VSP-D20-10F (FH)*-4T		2.5	70.4 (65.6)		47.3 (42.5)	25	29.5	15	3.3 to 10.4	77 (67)
VSP-D20-10F (FH)*-6T		4								
VSP-D20-15F (FH)*-4T		2.5	80.4 (75.6)		52.3 (47.5)	34	36.5	20	2.0 to 8.7	87 (77)
VSP-D20-15F (FH)*-6T		4								
VSP-D20-20F (FH)*-4T		2.5	96.4 (91.6)		59.3 (54.5)	36.5	20	2.0 to 8.7	87 (77)	
VSP-D20-20F (FH)*-6T		4								
VSP-D25F (FH)*-4T	25	2.5	64.4 (59.6)	14.3 (9.5)	41.3 (36.5)	20	18.5	6	7.0 to 12.6	67 (57)
VSP-D25F (FH)*-6T		4					24.5	10	3.3 to 10.0	72 (62)
VSP-D25-10F (FH)*-4T		2.5	70.4 (65.6)		47.3 (42.5)	25	29.5	15	3.3 to 10.4	78 (68)
VSP-D25-10F (FH)*-6T		4								
VSP-D25-15F (FH)*-4T		2.5	80.4 (75.6)		52.3 (47.5)	34	36.5	20	2.0 to 8.7	88 (78)
VSP-D25-15F (FH)*-6T		4								
VSP-D25-20F (FH)*-4T		2.5	96.4 (91.6)		59.3 (54.5)	36.5	20	2.0 to 8.7	88 (78)	
VSP-D25-20F (FH)*-6T		4								
VSP-D30F (FH)*-4T	30	2.5	64.4 (59.6)	14.3 (9.5)	41.3 (36.5)	20	18.5	6	7.0 to 12.6	68 (58)
VSP-D30F (FH)*-6T		4					24.5	10	3.3 to 10.0	72 (62)
VSP-D30-10F (FH)*-4T		2.5	70.4 (65.6)		47.3 (42.5)	25	29.5	15	3.3 to 10.4	78 (68)
VSP-D30-10F (FH)*-6T		4								
VSP-D30-15F (FH)*-4T		2.5	80.4 (75.6)		52.3 (47.5)	34	36.5	20	2.0 to 8.7	88 (78)
VSP-D30-15F (FH)*-6T		4								
VSP-D30-20F (FH)*-4T		2.5	96.4 (91.6)		59.3 (54.5)	36.5	20	2.0 to 8.7	88 (78)	
VSP-D30-20F (FH)*-6T		4								

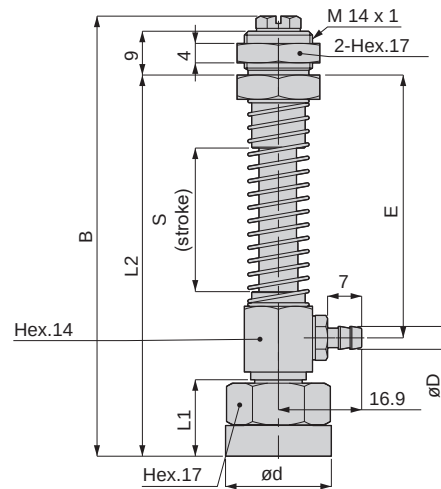
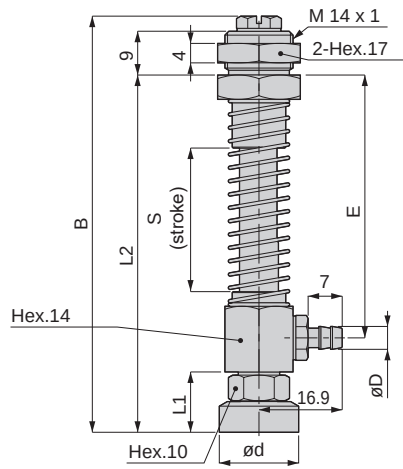
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D10, 15-□F(FH)*-4TC/6TC

●VSP-D20 to 30-□F(FH)*-4TC/6TC

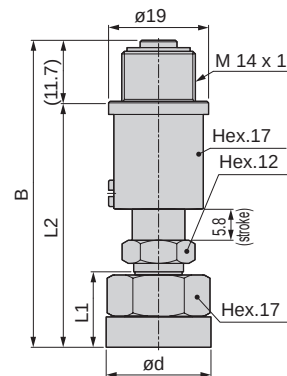


Unit: mm

	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)						
General/Deep/ Compact	VSP-D10-20F (FH)*-4TC	10	2.5	71.5 (69.7)	11.4 (9.6)	59.4 (57.6)	40.5	20	1.5 to 4.9	68 (67)						
	VSP-D10-20F (FH)*-6TC		4													
Sponge	VSP-D10-30F (FH)*-4TC		2.5	84.5 (82.7)		72.4 (70.6)	53.5	30	1.1 to 4.8	75 (74)						
	VSP-D10-30F (FH)*-6TC		4													
Bellows	VSP-D10-40F (FH)*-4TC		2.5	97.5 (95.7)		85.4 (83.6)	66.5	40	1.0 to 4.5	81 (80)						
	VSP-D10-40F (FH)*-6TC		4													
	VSP-D10-50F (FH)*-4TC		2.5	110.5 (108.7)							98.4 (96.6)	79.5	50	0.9 to 4.5	88 (87)	
	VSP-D10-50F (FH)*-6TC		4													
Multi-stage bellows	VSP-D15-20F (FH)*-4TC	15	4	71.5(69.7)	11.4 (9.6)	59.4 (57.6)	41	20	1.5 to 4.9	69 (68)						
	VSP-D15-20F (FH)*-6TC		6													
	VSP-D15-30F (FH)*-4TC		4								84.5 (82.7)	72.4 (70.6)	54	30	1.1 to 4.8	76 (75)
	VSP-D15-30F (FH)*-6TC		6													
Oval	VSP-D15-40F (FH)*-4TC		4	97.5 (95.7)		85.4 (83.6)	67	40	1.0 to 4.5	82 (81)						
	VSP-D15-40F (FH)*-6TC		6													
	VSP-D15-50F (FH)*-4TC		4	110.5 (108.7)							98.4 (96.6)	80	50	0.9 to 4.5	89 (88)	
	VSP-D15-50F (FH)*-6TC		6													
Soft	VSP-D20-20F (FH)*-4TC	20	4	75.9 (71.1)	14.3 (9.5)	63.8 (59)	41	20	1.5 to 4.9	85 (75)						
	VSP-D20-20F (FH)*-6TC		6													
Soft bellows	VSP-D20-30F (FH)*-4TC		4	88.9 (84.1)		76.8 (72)	54	30	1.1 to 4.8	92 (82)						
	VSP-D20-30F (FH)*-6TC		6													
	VSP-D20-40F (FH)*-4TC		4	101.9 (97.1)							89.8 (85)	67	40	1.0 to 4.5	99 (89)	
	VSP-D20-40F (FH)*-6TC		6													
Anti-slip	VSP-D20-50F (FH)*-4TC		4	114.9 (110.1)		102.8 (98)	80	50	0.9 to 4.5	106 (96)						
	VSP-D20-50F (FH)*-6TC		6													
Thin object	VSP-D25-20F (FH)*-4TC	25	4	75.9 (71.1)	14.3 (9.5)						63.8 (59)	41	20	1.5 to 4.9	86 (76)	
	VSP-D25-20F (FH)*-6TC		6													
	VSP-D25-30F (FH)*-4TC		4	88.9 (84.1)		76.8 (72)	54	30	1.1 to 4.8	93 (83)						
	VSP-D25-30F (FH)*-6TC		6													
	VSP-D25-40F (FH)*-4TC		4	101.9 (97.1)							89.8 (85)	67	40	1.0 to 4.5	100 (90)	
	VSP-D25-40F (FH)*-6TC		6													
Flat	VSP-D25-50F (FH)*-4TC		4	114.9 (110.1)		102.8 (98)	80	50	0.9 to 4.5	107 (97)						
	VSP-D25-50F (FH)*-6TC		6													
Suction mark prevention	VSP-D30-20F (FH)*-4TC	30	4	75.9 (71.1)	14.3 (9.5)						63.8 (59)	41	20	1.5 to 4.9	86 (76)	
	VSP-D30-20F (FH)*-6TC		6													
	VSP-D30-30F (FH)*-4TC		4	88.9 (84.1)		76.8 (72)	54	30	1.1 to 4.8	93 (92)						
	VSP-D30-30F (FH)*-6TC		6													
	VSP-D30-40F (FH)*-4TC		4	101.9 (97.1)							89.8 (85)	67	40	1.0 to 4.5	100 (90)	
	VSP-D30-40F (FH)*-6TC		6													
	VSP-D30-50F (FH)*-4TC		4	114.9 (110.1)		102.8 (98)	80	50	0.9 to 4.5	107 (97)						
	VSP-D30-50F (FH)*-6TC		6													

*1: Values in () are dimensions of the flat intake flow rate increase type.

●VSP-F20 to 30F(FH)*



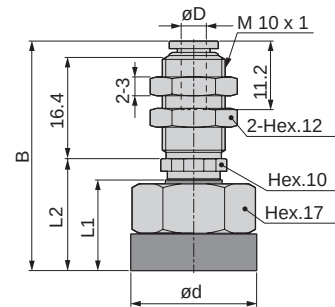
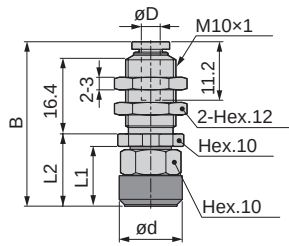
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (compact fixed, vacuum outlet top VSP-MA, push-in fitting)

●VSP-MA10, 15F(FH)*-4

●VSP-MA20 to 30F(FH)*-4



Unit: mm

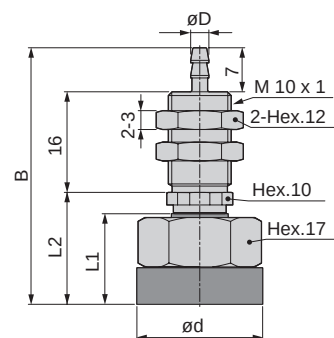
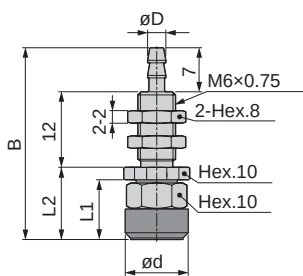
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA10F (FH)*-4	10	4	32.4 (30.6)	11.4 (9.6)	13.4 (11.6)	10 (9)
VSP-MA15F (FH)*-4	15	4	32.4 (30.6)	11.4 (9.6)	13.4 (11.6)	10 (9)
VSP-MA20F (FH)*-4	20	4	36.9 (32.1)	14.3 (9.5)	17.9 (13.1)	29 (19)
VSP-MA25F (FH)*-4	25	4	36.9 (32.1)	14.3 (9.5)	17.9 (13.1)	31 (21)
VSP-MA30F (FH)*-4	30	4	36.9 (32.1)	14.3 (9.5)	17.9 (13.1)	31 (21)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (compact fixed, vacuum outlet side VSP-MA, barbed fitting)

●VSP-MA10, 15F(FH)*-4T

●VSP-MA20 to 30F(FH)*-4T/6T



Unit: mm

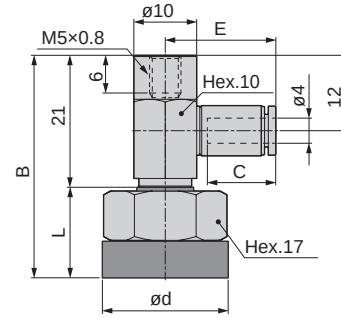
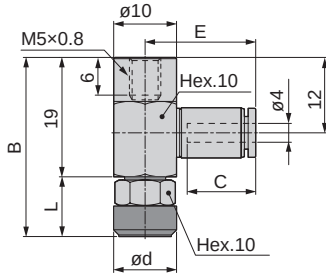
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA10F (FH)*-4T	10	2.5	32.4 (30.6)	11.4 (9.6)	13.4 (11.6)	7 (6)
VSP-MA15F (FH)*-4T	15	2.5	32.4 (30.6)	11.4 (9.6)	13.4 (11.6)	8 (7)
VSP-MA20F (FH)*-4T	20	2.5	40.9 (36.1)	14.3 (9.5)	17.9 (13.1)	29 (19)
VSP-MA20F (FH)*-6T		4				
VSP-MA25F (FH)*-4T	25	2.5	40.9 (36.1)	14.3 (9.5)	17.9 (13.1)	31 (21)
VSP-MA25F (FH)*-6T		4				
VSP-MA30F (FH)*-4T	30	2.5	40.9 (36.1)	14.3 (9.5)	17.9 (13.1)	31 (21)
VSP-MA30F (FH)*-6T		4				

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (compact fixed, vacuum outlet side VSP-MB, push-in fitting)

●VSP-MB10, 15F(FH)*-2/4/6

●VSP-MB20 to 30F(FH)*-2/4/6



Unit: mm

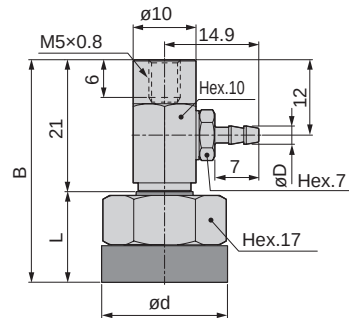
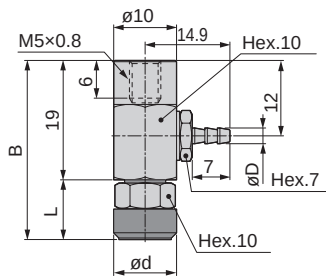
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB10F (FH)*-2	10	1.8	30.4 (28.6)	11.4 (9.6)	8.4	13.7	11 (10)
VSP-MB10F (FH)*-4		4			11.2	17.8	12 (11)
VSP-MB10F (FH)*-6		6			11.9	19.6	13 (12)
VSP-MB15F (FH)*-2	15	1.8	30.4 (28.6)	11.4 (9.6)	8.4	13.7	11 (10)
VSP-MB15F (FH)*-4		4			11.2	17.8	12 (11)
VSP-MB15F (FH)*-6		6			11.9	19.6	13 (12)
VSP-MB20F (FH)*-2	20	1.8	35.5 (30.7)	14.3 (9.5)	8.4	13.7	29 (19)
VSP-MB20F (FH)*-4		4			11.2	17.8	30 (20)
VSP-MB20F (FH)*-6		6			11.9	19.6	31 (21)
VSP-MB25F (FH)*-2	25	1.8	35.5 (30.7)	14.3 (9.5)	8.4	13.7	31 (21)
VSP-MB25F (FH)*-4		4			11.2	17.8	32 (22)
VSP-MB25F (FH)*-6		6			11.9	19.6	33 (23)
VSP-MB30F (FH)*-2	30	1.8	35.5 (30.7)	14.3 (9.5)	8.4	13.7	32 (22)
VSP-MB30F (FH)*-4		4			11.2	17.8	33 (23)
VSP-MB30F (FH)*-6		6			11.9	19.6	34 (24)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (compact fixed, vacuum outlet side VSP-MB, barbed fitting)

●VSP-MB10, 15F(FH)*-4T/6T

●VSP-MB20 to 30F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB10F (FH)*-4T	10	2.5	30.4 (28.6)	11.4 (9.6)	10 (9)
VSP-MB10F (FH)*-6T		4			
VSP-MB15F (FH)*-4T	15	2.5	30.4 (28.6)	11.4 (9.6)	11 (10)
VSP-MB15F (FH)*-6T		4			
VSP-MB20F (FH)*-4T	20	2.5	35.5 (30.7)	14.3 (9.5)	29 (19)
VSP-MB20F (FH)*-6T		4			
VSP-MB25F (FH)*-4T	25	2.5	35.5 (30.7)	14.3 (9.5)	31 (30)
VSP-MB25F (FH)*-6T		4			
VSP-MB30F (FH)*-4T	30	2.5	35.5 (30.7)	14.3 (9.5)	31 (30)
VSP-MB30F (FH)*-6T		4			

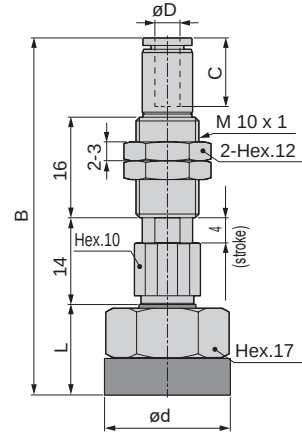
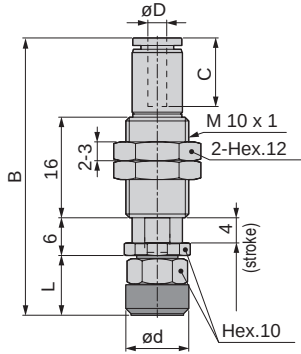
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

●VSP-MC10, 15F(FH)*-2/4

●VSP-MC20 to 30F(FH)*-2/4



Unit: mm

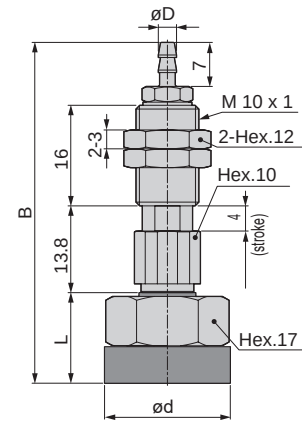
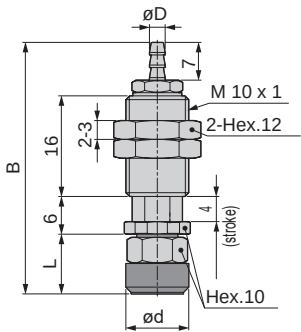
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC10F (FH)*-2	10	1.8	42.3 (40.5)	11.4 (9.6)	8.4	1 to 1.3	19 (18)
VSP-MC10F (FH)*-4		4	46.4 (44.6)		11.2		20 (19)
VSP-MC15F (FH)*-2	15	1.8	42.3 (40.5)	11.4 (9.6)	8.4	1 to 1.3	19 (18)
VSP-MC15F (FH)*-4		4	46.4 (44.6)		11.2		20 (19)
VSP-MC20F (FH)*-2	20	1.8	53.2 (49.4)	14.3 (9.5)	8.4	1 to 1.3	40 (30)
VSP-MC20F (FH)*-4		4	57.3 (52.5)		11.2		41 (31)
VSP-MC25F (FH)*-2	25	1.8	53.2 (49.4)	14.3 (9.5)	8.4	1 to 1.3	42 (32)
VSP-MC25F (FH)*-4		4	57.3 (52.5)		11.2		43 (33)
VSP-MC30F (FH)*-2	30	1.8	53.2 (49.4)	14.3 (9.5)	8.4	1 to 1.3	42 (32)
VSP-MC30F (FH)*-4		4	57.3 (52.5)		11.2		43 (33)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

●VSP-MC10, 15F(FH)*-4T/6T

●VSP-MC20 to 30F(FH)*-4T/6T



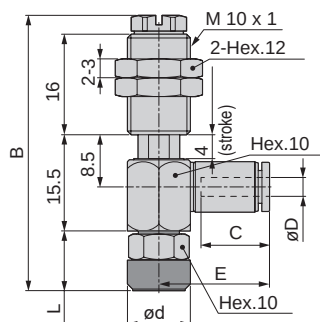
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Spring force (N)	Weight (g)
VSP-MC10F (FH)*-4T	10	2.5	43.5 (41.7)	11.4 (9.6)	0.5 to 0.6	18 (17)
VSP-MC10F (FH)*-6T		4				
VSP-MC15F (FH)*-4T	15	2.5	43.5 (41.7)	11.4 (9.6)	0.5 to 0.6	19 (18)
VSP-MC15F (FH)*-6T		4				
VSP-MC20F (FH)*-4T	20	2.5	54.4 (49.6)	14.3 (9.5)	1 to 1.3	40 (30)
VSP-MC20F (FH)*-6T		4				
VSP-MC25F (FH)*-4T	25	2.5	54.4 (49.6)	14.3 (9.5)	1 to 1.3	42 (32)
VSP-MC25F (FH)*-6T		4				
VSP-MC30F (FH)*-4T	30	2.5	54.4 (49.6)	14.3 (9.5)	1 to 1.3	42 (32)
VSP-MC30F (FH)*-6T		4				

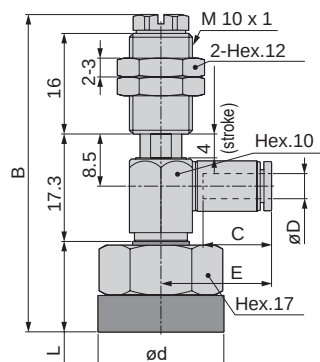
*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

●VSP-MD10, 15F(FH)*-2/4/6



●VSP-MD20 to 30F(FH)*-2/4/6



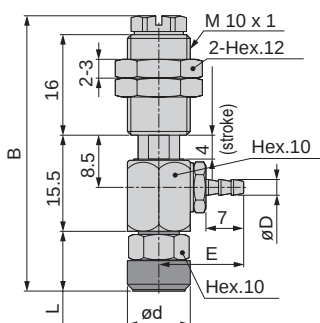
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD10F (FH)*-2	10	1.8	45.9 (44.1)	11.4 (9.6)	8.4	13.6	1 to 1.3	26 (25)
VSP-MD10F (FH)*-4		4			11.2	17.7		27 (26)
VSP-MD10F (FH)*-6		6			11.9	19.5		28 (27)
VSP-MD15F (FH)*-2	15	1.8	45.9 (44.1)	11.4 (9.6)	8.4	13.6	1 to 1.3	27 (26)
VSP-MD15F (FH)*-4		4			11.2	17.7		28 (27)
VSP-MD15F (FH)*-6		6			11.9	19.5		29 (28)
VSP-MD20F (FH)*-2	20	1.8	50.6 (45.8)	14.3 (9.5)	8.4	13.6	1 to 1.3	44 (34)
VSP-MD20F (FH)*-4		4			11.2	17.7		45 (35)
VSP-MD20F (FH)*-6		6			11.9	19.5		46 (36)
VSP-MD25F (FH)*-2	25	1.8	50.6 (45.8)	14.3 (9.5)	8.4	13.6	1 to 1.3	45 (35)
VSP-MD25F (FH)*-4		4			11.2	17.7		46 (36)
VSP-MD25F (FH)*-6		6			11.9	19.5		47 (37)
VSP-MD30F (FH)*-2	30	1.8	50.6 (45.8)	14.3 (9.5)	8.4	13.6	1 to 1.3	45 (35)
VSP-MD30F (FH)*-4		4			11.2	17.7		46 (36)
VSP-MD30F (FH)*-6		6			11.9	19.5		47 (37)

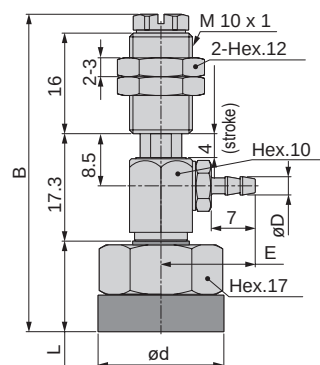
*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (compact buffer, vacuum outlet side VSP-MD, barbed fitting)

●VSP-MD10, 15F(FH)*-4T/6T



●VSP-MD20 to 30F(FH)*-4T/6T



Unit: mm

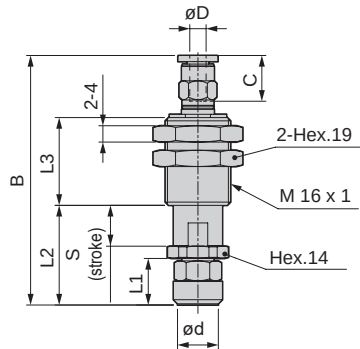
Model No.	Pad diameter ød	Bore size øD	B	L	E	Spring force (N)	Weight (g)
VSP-MD10F (FH)*-4T	10	2.5	45.9 (44.1)	11.4 (9.6)	14.8	1 to 1.3	26 (25)
VSP-MD10F (FH)*-6T		4					
VSP-MD15F (FH)*-4T	15	2.5	45.9 (44.1)	11.4 (9.6)	14.8	1 to 1.3	26 (25)
VSP-MD15F (FH)*-6T		4					
VSP-MD20F (FH)*-4T	20	2.5	50.6 (45.8)	14.3 (9.5)	14.8	1 to 1.3	43 (33)
VSP-MD20F (FH)*-6T		4					
VSP-MD25F (FH)*-4T	25	2.5	50.6 (45.8)	14.3 (9.5)	14.8	1 to 1.3	45 (35)
VSP-MD25F (FH)*-6T		4					
VSP-MD30F (FH)*-4T	30	2.5	50.6 (45.8)	14.3 (9.5)	14.8	1 to 1.3	45 (35)
VSP-MD30F (FH)*-6T		4					

*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC10, 15-□F(FH)*-2/4/6



Unit: mm

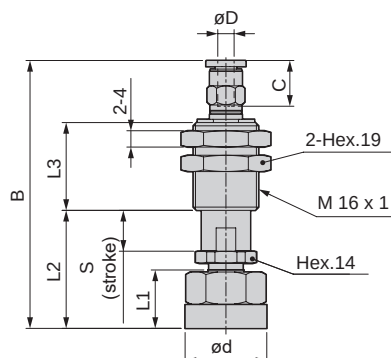
Suction pad

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
General/Deep/ Compact	VSP-HC10-10F (FH)*-2	10	1.8	57 (55.2)	11.4 (9.6)	24.4 (22.6)	21.5	8.4	10	1.0 to 2.4	26 (25)
	VSP-HC10-10F (FH)*-4		4	61.1 (59.3)				11.2			27 (26)
	VSP-HC10-10F (FH)*-6		6	62.4 (60.6)				11.9			28 (27)
Sponge	VSP-HC10-15F (FH)*-2		1.8	67 (65.2)		29.4 (27.6)	26.5	8.4	15	1.0 to 2.7	28 (27)
	VSP-HC10-15F (FH)*-4		4	71.1 (69.3)				11.2			29 (28)
	VSP-HC10-15F (FH)*-6		6	72.4 (70.6)				11.9			30 (29)
Bellows	VSP-HC10-20F (FH)*-2		1.8	77 (75.2)		34.4 (32.6)	31.5	8.4	20	1.0 to 3.0	30 (29)
	VSP-HC10-20F (FH)*-4		4	81.1 (79.3)				11.2			31 (30)
	VSP-HC10-20F (FH)*-6		6	82.4 (80.6)				11.9			32 (31)
Multi-stage bellows	VSP-HC10-25F (FH)*-2		1.8	87.5 (85.7)		39.4 (37.6)	37	8.4	25	1.0 to 3.0	32 (31)
	VSP-HC10-25F (FH)*-4		4	91.6 (89.8)				11.2			33 (32)
	VSP-HC10-25F (FH)*-6		6	92.9 (91.1)				11.9			34 (33)
Oval	VSP-HC10-30F (FH)*-2		1.8	98.5 (96.7)		44.4 (42.6)	43	8.4	30	1.0 to 3.0	34 (33)
	VSP-HC10-30F (FH)*-4		4	102.6 (100.8)				11.2			35 (34)
	VSP-HC10-30F (FH)*-6		6	103.9 (102.1)				11.9			36 (35)
Soft	VSP-HC10-40F (FH)*-2		1.8	120.5 (118.7)		54.4 (52.6)	55	8.4	40	1.0 to 3.0	38 (37)
	VSP-HC10-40F (FH)*-4		4	124.6 (122.8)				11.2			39 (38)
	VSP-HC10-40F (FH)*-6		6	125.9 (124.1)				11.9			40 (39)
Soft bellows	VSP-HC10-50F (FH)*-2		1.8	142 (140.2)		64.4 (62.6)	66.5	8.4	50	1.0 to 3.1	43 (42)
	VSP-HC10-50F (FH)*-4		4	146.1 (144.3)				11.2			44 (43)
	VSP-HC10-50F (FH)*-6		6	147.4 (145.6)				11.9			45 (44)
Anti-slip	VSP-HC15-10F (FH)*-2	15	1.8	57 (55.2)	11.4 (9.6)	24.4 (22.6)	21.5	8.4	10	1.0 to 2.4	27 (26)
	VSP-HC15-10F (FH)*-4		4	61.1 (59.3)				11.2			28 (27)
	VSP-HC15-10F (FH)*-6		6	62.4 (60.6)				11.9			29 (28)
Thin object	VSP-HC15-15F (FH)*-2		1.8	67 (65.2)		29.4 (27.6)	26.5	8.4	15	1.0 to 2.7	29 (28)
	VSP-HC15-15F (FH)*-4		4	71.1 (69.3)				11.2			30 (29)
	VSP-HC15-15F (FH)*-6		6	72.4 (70.6)				11.9			31 (30)
Flat	VSP-HC15-20F (FH)*-2		1.8	77 (75.2)		34.4 (32.6)	31.5	8.4	20	1.0 to 3.0	31 (30)
	VSP-HC15-20F (FH)*-4		4	81.1 (79.3)				11.2			32 (31)
	VSP-HC15-20F (FH)*-6		6	82.4 (80.6)				11.9			33 (32)
Suction mark prevention	VSP-HC15-25F (FH)*-2		1.8	87.5 (85.7)		39.4 (37.6)	37	8.4	25	1.0 to 3.0	33 (32)
	VSP-HC15-25F (FH)*-4		4	91.6 (89.8)				11.2			34 (33)
	VSP-HC15-25F (FH)*-6		6	92.9 (91.1)				11.9			35 (34)
	VSP-HC15-30F (FH)*-2		1.8	98.5 (96.7)		44.4 (42.6)	43	8.4	30	1.0 to 3.0	35 (34)
	VSP-HC15-30F (FH)*-4		4	102.6 (100.8)				11.2			36 (35)
	VSP-HC15-30F (FH)*-6		6	103.9 (102.1)				11.9			37 (36)
	VSP-HC15-40F (FH)*-2		1.8	120.5 (118.7)		54.4 (52.6)	55	8.4	40	1.0 to 3.0	39 (38)
	VSP-HC15-40F (FH)*-4		4	124.6 (122.8)				11.2			40 (39)
	VSP-HC15-40F (FH)*-6		6	125.9 (124.1)				11.9			41 (40)
	VSP-HC15-50F (FH)*-2		1.8	142 (140.2)		64.4 (62.6)	66.5	8.4	50	1.0 to 3.1	44 (43)
	VSP-HC15-50F (FH)*-4		4	146.1 (144.3)				11.2			45 (44)
	VSP-HC15-50F (FH)*-6		6	147.4 (145.6)				11.9			46 (45)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC20, 25-□F(FH)*-2/4/6



Unit: mm

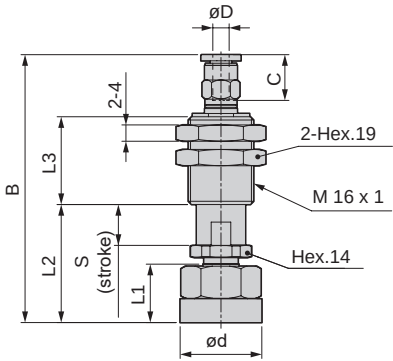
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10F (FH)*-2	20	1.8	61.5 (56.7)	14.3 (9.5)	28.9 (24.1)	21.5	8.4	10	1.0 to 2.4	44 (34)
VSP-HC20-10F (FH)*-4		4	65.6 (60.8)				11.2			45 (35)
VSP-HC20-10F (FH)*-6		6	66.9 (62.1)				11.9			46 (36)
VSP-HC20-15F (FH)*-2		1.8	71.5 (66.7)		33.9 (29.1)	26.5	8.4	15	1.0 to 2.7	46 (36)
VSP-HC20-15F (FH)*-4		4	75.6 (70.8)				11.2			47 (37)
VSP-HC20-15F (FH)*-6		6	76.9 (72.1)				11.9			48 (38)
VSP-HC20-20F (FH)*-2		1.8	81.5 (76.7)		38.9 (34.1)	31.5	8.4	20	1.0 to 3.0	48 (38)
VSP-HC20-20F (FH)*-4		4	85.6 (80.8)				11.2			49 (39)
VSP-HC20-20F (FH)*-6		6	86.9 (82.1)				11.9			50 (40)
VSP-HC20-25F (FH)*-2		1.8	92 (87.2)		43.9 (39.1)	37	8.4	25	1.0 to 3.0	50 (40)
VSP-HC20-25F (FH)*-4		4	96.1 (91.3)				11.2			51 (41)
VSP-HC20-25F (FH)*-6		6	97.4 (92.6)				11.9			52 (42)
VSP-HC20-30F (FH)*-2		1.8	103 (98.2)		48.9 (44.1)	43	8.4	30	1.0 to 3.0	52 (42)
VSP-HC20-30F (FH)*-4		4	107.1 (102.3)				11.2			53 (43)
VSP-HC20-30F (FH)*-6		6	108.4 (103.6)				11.9			54 (44)
VSP-HC20-40F (FH)*-2		1.8	125 (120.2)		58.9 (54.1)	55	8.4	40	1.0 to 3.0	56 (46)
VSP-HC20-40F (FH)*-4		4	129.1 (124.3)				11.2			57 (47)
VSP-HC20-40F (FH)*-6		6	130.4 (125.6)				11.9			58 (48)
VSP-HC20-50F (FH)*-2		1.8	146.5 (141.7)		68.9 (64.1)	66.5	8.4	50	1.0 to 3.1	60 (50)
VSP-HC20-50F (FH)*-4		4	150.6 (145.8)				11.2			61 (51)
VSP-HC20-50F (FH)*-6		6	151.9 (147.1)				11.9			62 (52)
VSP-HC25-10F (FH)*-2	25	1.8	61.5 (56.7)	14.3 (9.5)	28.9 (24.1)	21.5	8.4	10	1.0 to 2.4	45 (35)
VSP-HC25-10F (FH)*-4		4	65.6 (60.8)				11.2			46 (36)
VSP-HC25-10F (FH)*-6		6	66.9 (62.1)				11.9			47 (37)
VSP-HC25-15F (FH)*-2		1.8	71.5 (66.7)		33.9 (29.1)	26.5	8.4	15	1.0 to 2.7	47 (37)
VSP-HC25-15F (FH)*-4		4	75.6 (70.8)				11.2			48 (38)
VSP-HC25-15F (FH)*-6		6	76.9 (72.1)				11.9			49 (39)
VSP-HC25-20F (FH)*-2		1.8	81.5 (76.7)		38.9 (34.1)	31.5	8.4	20	1.0 to 3.0	49 (39)
VSP-HC25-20F (FH)*-4		4	85.6 (80.8)				11.2			50 (40)
VSP-HC25-20F (FH)*-6		6	86.9 (82.1)				11.9			51 (41)
VSP-HC25-25F (FH)*-2		1.8	92 (87.2)		43.9 (39.1)	37	8.4	25	1.0 to 3.0	51 (41)
VSP-HC25-25F (FH)*-4		4	96.1 (91.3)				11.2			52 (42)
VSP-HC25-25F (FH)*-6		6	97.4 (92.6)				11.9			53 (43)
VSP-HC25-30F (FH)*-2		1.8	103 (98.2)		48.9 (44.1)	43	8.4	30	1.0 to 3.0	53 (43)
VSP-HC25-30F (FH)*-4		4	107.1 (102.3)				11.2			54 (44)
VSP-HC25-30F (FH)*-6		6	108.4 (103.6)				11.9			55 (45)
VSP-HC25-40F (FH)*-2		1.8	125 (120.2)		58.9 (54.1)	55	8.4	40	1.0 to 3.0	57 (47)
VSP-HC25-40F (FH)*-4		4	129.1 (124.3)				11.2			58 (48)
VSP-HC25-40F (FH)*-6		6	130.4 (125.6)				11.9			59 (49)
VSP-HC25-50F (FH)*-2		1.8	146.5 (141.7)		68.9 (64.1)	66.5	8.4	50	1.0 to 3.1	61 (51)
VSP-HC25-50F (FH)*-4		4	150.6 (145.8)				11.2			62 (52)
VSP-HC25-50F (FH)*-6		6	151.9 (147.1)				11.9			63 (53)

*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC30-□F(FH)*-2/4/6

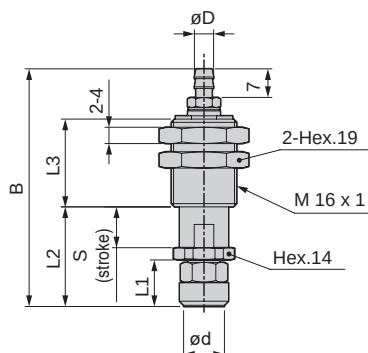


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC30-10F (FH)*-2	30	1.8	61.5 (56.7)	14.3 (9.5)	28.9 (24.1)	21.5	8.4	10	1.0 to 2.4	46 (36)
VSP-HC30-10F (FH)*-4		4	65.6 (60.8)				11.2			47 (37)
VSP-HC30-10F (FH)*-6		6	66.9 (62.1)				11.9			48 (38)
VSP-HC30-15F (FH)*-2		1.8	71.5 (66.7)		33.9 (29.1)	26.5	8.4	15	1.0 to 2.7	48 (38)
VSP-HC30-15F (FH)*-4		4	75.6 (70.8)				11.2			49 (39)
VSP-HC30-15F (FH)*-6		6	76.9 (72.1)				11.9			50 (40)
VSP-HC30-20F (FH)*-2		1.8	81.5 (76.7)		38.9 (34.1)	31.5	8.4	20	1.0 to 3.0	50 (40)
VSP-HC30-20F (FH)*-4		4	85.6 (80.8)				11.2			51 (41)
VSP-HC30-20F (FH)*-6		6	86.9 (82.1)				11.9			52 (42)
VSP-HC30-25F (FH)*-2		1.8	92 (87.2)		43.9 (39.1)	37	8.4	25	1.0 to 3.0	52 (42)
VSP-HC30-25F (FH)*-4		4	96.1 (91.3)				11.2			53 (43)
VSP-HC30-25F (FH)*-6		6	97.4 (92.6)				11.9			54 (44)
VSP-HC30-30F (FH)*-2		1.8	103 (98.2)		48.9 (44.1)	43	8.4	30	1.0 to 3.0	54 (44)
VSP-HC30-30F (FH)*-4		4	107.1 (102.3)				11.2			55 (45)
VSP-HC30-30F (FH)*-6		6	108.4 (103.6)				11.9			56 (46)
VSP-HC30-40F (FH)*-2		1.8	125 (120.2)		58.9 (54.1)	55	8.4	40	1.0 to 3.0	58 (48)
VSP-HC30-40F (FH)*-4		4	129.1 (124.3)				11.2			59 (49)
VSP-HC30-40F (FH)*-6		6	130.4 (125.6)				11.9			60 (50)
VSP-HC30-50F (FH)*-2		1.8	146.5 (141.7)		68.9 (64.1)	66.5	8.4	50	1.0 to 3.1	62 (52)
VSP-HC30-50F (FH)*-4		4	150.6 (145.8)				11.2			63 (53)
VSP-HC30-50F (FH)*-6		6	151.9 (147.1)				11.9			64 (54)

*1: Values in () are dimensions of the flat intake flow rate increase type.

●VSP-HC10, 15-□F(FH)*-4T/6T



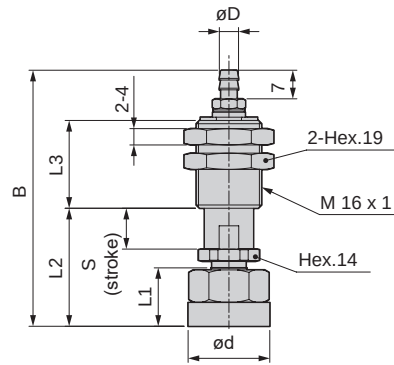
									Unit: mm
Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10F (FH)*-4T	10	2.5	58.2 (56.4)	11.4 (9.6)	24.4 (22.6)	21.5	10	1.0 to 2.4	25 (24)
VSP-HC10-10F (FH)*-6T		4							
VSP-HC10-15F (FH)*-4T		2.5	68.2 (66.4)		29.4 (27.6)	26.5	15	1.0 to 2.7	27 (26)
VSP-HC10-15F (FH)*-6T		4							
VSP-HC10-20F (FH)*-4T		2.5	78.2 (76.4)		34.4 (32.6)	31.5	20	1.0 to 3.0	29 (28)
VSP-HC10-20F (FH)*-6T		4							
VSP-HC10-25F (FH)*-4T		2.5	88.7 (86.9)		39.4 (37.6)	37	25	1.0 to 3.0	32 (31)
VSP-HC10-25F (FH)*-6T		4							
VSP-HC10-30F (FH)*-4T		2.5	99.7 (97.9)		44.4 (42.6)	43	30	1.0 to 3.0	34 (33)
VSP-HC10-30F (FH)*-6T		4							
VSP-HC10-40F (FH)*-4T		2.5	121.7 (119.9)		54.4 (52.6)	55	40	1.0 to 3.0	38 (37)
VSP-HC10-40F (FH)*-6T		4							
VSP-HC10-50F (FH)*-4T		2.5	143.2 (141.4)		64.4 (62.6)	66.5	50	1.0 to 3.1	42 (41)
VSP-HC10-50F (FH)*-6T		4							
VSP-HC15-10F (FH)*-4T	15	2.5	58.2 (56.4)	11.4 (9.6)	24.4 (22.6)	21.5	10	1.0 to 2.4	26 (25)
VSP-HC15-10F (FH)*-6T		4							
VSP-HC15-15F (FH)*-4T		2.5	68.2 (66.4)		29.4 (27.6)	26.5	15	1.0 to 2.7	28 (27)
VSP-HC15-15F (FH)*-6T		4							
VSP-HC15-20F (FH)*-4T		2.5	78.2 (76.4)		34.4 (32.6)	31.5	20	1.0 to 3.0	30 (29)
VSP-HC15-20F (FH)*-6T		4							
VSP-HC15-25F (FH)*-4T		2.5	88.7 (86.9)		39.4 (37.6)	37	25	1.0 to 3.0	33 (32)
VSP-HC15-25F (FH)*-6T		4							
VSP-HC15-30F (FH)*-4T		2.5	99.7 (97.9)		44.4 (42.6)	43	30	1.0 to 3.0	35 (34)
VSP-HC15-30F (FH)*-6T		4							
VSP-HC15-40F (FH)*-4T		2.5	121.7 (119.9)		54.4 (52.6)	55	40	1.0 to 3.0	39 (38)
VSP-HC15-40F (FH)*-6T		4							
VSP-HC15-50F (FH)*-4T		2.5	143.2 (141.4)		64.4 (62.6)	66.5	50	1.0 to 3.1	43 (42)
VSP-HC15-50F (FH)*-6T		4							

*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC20 to 30-□F(FH)*-4T/6T



Unit: mm

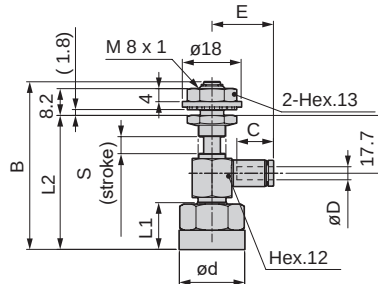
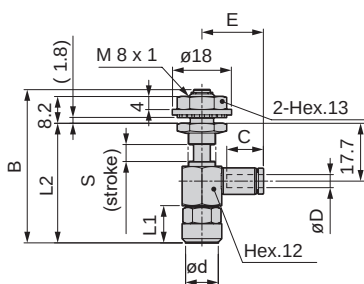
	Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)	
General/Deep/ Compact	VSP-HC20-10F (FH)*-4T	20	2.5	62.7 (57.9)	14.3 (9.5)	28.9 (24.1)	21.5	10	1.0 to 2.4	43 (33)	
	VSP-HC20-10F (FH)*-6T		4								
	VSP-HC20-15F (FH)*-4T		2.5	72.7 (67.9)		33.9 (29.1)	26.5	15	1.0 to 2.7	44 (35)	
	VSP-HC20-15F (FH)*-6T		4								
Sponge	VSP-HC20-20F (FH)*-4T		2.5	82.7 (77.9)		38.9 (34.1)	31.5	20	1.0 to 3.0	47 (37)	
	VSP-HC20-20F (FH)*-6T		4								
	VSP-HC20-25F (FH)*-4T		2.5	93.2 (89.4)		43.9 (39.1)	37	25	1.0 to 3.0	49 (39)	
	VSP-HC20-25F (FH)*-6T		4								
Bellows	VSP-HC20-30F (FH)*-4T		2.5	104.2 (99.4)		48.9 (44.1)	43	30	1.0 to 3.0	52 (42)	
	VSP-HC20-30F (FH)*-6T		4								
	Multi-stage bellows		VSP-HC20-40F (FH)*-4T	2.5		126.2 (121.4)	58.9 (54.1)	55	40	1.0 to 3.0	56 (46)
			VSP-HC20-40F (FH)*-6T	4							
			VSP-HC20-50F (FH)*-4T	2.5		147.7 (142.9)	68.9 (64.1)	66.5	50	1.0 to 3.1	60 (50)
			VSP-HC20-50F (FH)*-6T	4							
	Oval	VSP-HC25-10F (FH)*-4T	25	2.5	62.7 (57.9)	14.3 (9.5)	28.9 (24.1)	21.5	10	1.0 to 2.4	44 (34)
		VSP-HC25-10F (FH)*-6T		4							
VSP-HC25-15F (FH)*-4T		2.5		72.7 (67.9)	33.9 (29.1)		26.5	15	1.0 to 2.7	46 (36)	
VSP-HC25-15F (FH)*-6T		4									
Soft	VSP-HC25-20F (FH)*-4T	2.5		82.7 (77.9)	38.9 (34.1)		31.5	20	1.0 to 3.0	48 (38)	
	VSP-HC25-20F (FH)*-6T	4									
	Soft bellows	VSP-HC25-25F (FH)*-4T		2.5	93.2 (89.4)		43.9 (39.1)	37	25	1.0 to 3.0	50 (40)
		VSP-HC25-25F (FH)*-6T		4							
Anti-slip		VSP-HC25-30F (FH)*-4T		2.5	104.2 (99.4)		48.9 (44.1)	43	30	1.0 to 3.0	53 (43)
		VSP-HC25-30F (FH)*-6T		4							
		VSP-HC25-40F (FH)*-4T		2.5	126.2 (121.4)		58.9 (54.1)	55	40	1.0 to 3.0	57 (47)
		VSP-HC25-40F (FH)*-6T		4							
		VSP-HC25-50F (FH)*-4T		2.5	147.7 (142.9)		68.9 (64.1)	66.5	50	1.0 to 3.1	61 (51)
		VSP-HC25-50F (FH)*-6T		4							
	Thin object	VSP-HC30-10F (FH)*-4T	30	2.5	62.7 (57.9)	14.3 (9.5)	28.9 (24.1)	21.5	10	1.0 to 2.4	45 (35)
		VSP-HC30-10F (FH)*-6T		4							
VSP-HC30-15F (FH)*-4T		2.5		72.7 (67.9)	33.9 (29.1)		26.5	15	1.0 to 2.7	47 (37)	
VSP-HC30-15F (FH)*-6T		4									
Flat	VSP-HC30-20F (FH)*-4T	2.5		82.7 (77.9)	38.9 (34.1)		31.5	20	1.0 to 3.0	49 (39)	
	VSP-HC30-20F (FH)*-6T	4									
	Suction mark prevention	VSP-HC30-25F (FH)*-4T		2.5	93.2 (89.4)		43.9 (39.1)	37	25	1.0 to 3.0	51 (41)
		VSP-HC30-25F (FH)*-6T		4							
VSP-HC30-30F (FH)*-4T		2.5		104.2 (99.4)	48.9 (44.1)		43	30	1.0 to 3.0	54 (44)	
VSP-HC30-30F (FH)*-6T		4									
		VSP-HC30-40F (FH)*-4T		2.5	126.2 (121.4)		58.9 (54.1)	55	40	1.0 to 3.0	58 (48)
		VSP-HC30-40F (FH)*-6T		4							
		VSP-HC30-50F (FH)*-4T		2.5	147.7 (142.9)		68.9 (64.1)	66.5	50	1.0 to 3.1	62 (52)
		VSP-HC30-50F (FH)*-6T		4							

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, push-in fitting)

●VSP-HD10, 15F(FH)*-2/4/6

●VSP-HD20 to 30F(FH)*-2/4/6



Unit: mm

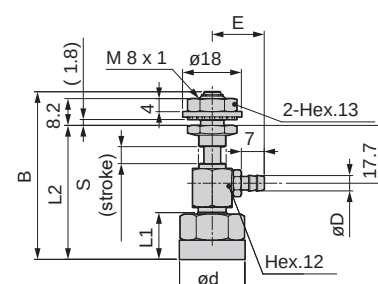
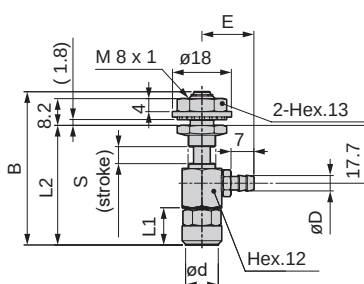
Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10F (FH)*-2	10	1.8	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	8.4	14.7	5.2	1.6 to 2.9	36 (35)
VSP-HD10F (FH)*-4		4				11.2	18.8			37 (36)
VSP-HD10F (FH)*-6		6				11.9	20.6			38 (37)
VSP-HD15F (FH)*-2	15	1.8	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	8.4	14.7	5.2	1.6 to 2.9	37 (36)
VSP-HD15F (FH)*-4		4				11.2	18.8			38 (37)
VSP-HD15F (FH)*-6		6				11.9	20.6			39 (38)
VSP-HD20F (FH)*-2	20	1.8	51.3 (46.5)	14.3 (9.5)	41 (36.2)	8.4	14.7	5.2	1.6 to 2.9	49 (39)
VSP-HD20F (FH)*-4		4				11.2	18.8			50 (40)
VSP-HD20F (FH)*-6		6				11.9	20.6			51 (41)
VSP-HD25F (FH)*-2	25	1.8	51.3 (46.5)	14.3 (9.5)	41 (36.2)	8.4	14.7	5.2	1.6 to 2.9	50 (40)
VSP-HD25F (FH)*-4		4				11.2	18.8			51 (41)
VSP-HD25F (FH)*-6		6				11.9	20.6			52 (42)
VSP-HD30F (FH)*-2	30	1.8	51.3 (46.5)	14.3 (9.5)	41 (36.2)	8.4	14.7	5.2	1.6 to 2.9	51 (41)
VSP-HD30F (FH)*-4		4				11.2	18.8			52 (42)
VSP-HD30F (FH)*-6		6				11.9	20.6			53 (43)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, barbed fitting)

●VSP-HD10, 15F(FH)*-4T/6T

●VSP-HD20 to 30F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10F (FH)*-4T	10	2.5	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	15.9	5.2	1.6 to 2.9	35 (34)
VSP-HD10F (FH)*-6T		4							
VSP-HD15F (FH)*-4T	15	2.5	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	15.9	5.2	1.6 to 2.9	36 (35)
VSP-HD15F (FH)*-6T		4							
VSP-HD20F (FH)*-4T	20	2.5	51.3 (46.5)	14.3 (9.5)	41 (36.2)	15.9	5.2	1.6 to 2.9	53 (52)
VSP-HD20F (FH)*-6T		4							
VSP-HD25F (FH)*-4T	25	2.5	51.3 (46.5)	14.3 (9.5)	41 (36.2)	15.9	5.2	1.6 to 2.9	54 (53)
VSP-HD25F (FH)*-6T		4							
VSP-HD30F (FH)*-4T	30	2.5	51.3 (46.5)	14.3 (9.5)	41 (36.2)	15.9	5.2	1.6 to 2.9	55 (54)
VSP-HD30F (FH)*-6T		4							

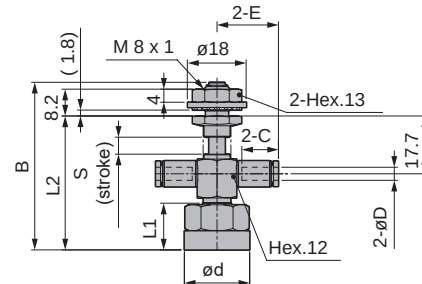
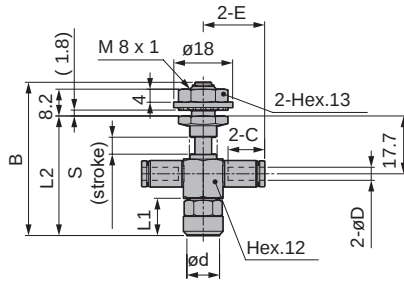
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW10, 15F(FH)*-2/4/6

●VSP-HDW20 to 30F(FH)*-2/4/6



Unit: mm

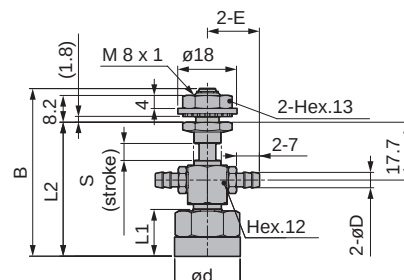
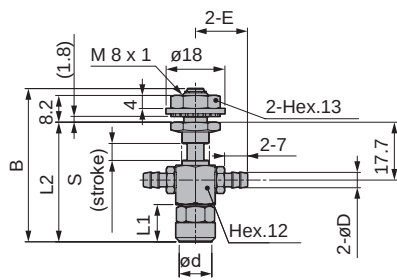
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10F (FH)*-2	10	1.8	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	8.4	14.7	5.2	1.6 to 2.9	37 (36)
VSP-HDW10F (FH)*-4		4				11.2	18.8			39 (38)
VSP-HDW10F (FH)*-6		6				11.9	20.6			41 (40)
VSP-HDW15F (FH)*-2	15	1.8	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	8.4	14.7	5.2	1.6 to 2.9	38 (37)
VSP-HDW15F (FH)*-4		4				11.2	18.8			40 (39)
VSP-HDW15F (FH)*-6		6				11.9	20.6			42 (41)
VSP-HDW20F (FH)*-2	20	1.8	51.3 (46.5)	14.3 (9.5)	41 (36.2)	8.4	14.7	5.2	1.6 to 2.9	55 (45)
VSP-HDW20F (FH)*-4		4				11.2	18.8			57 (47)
VSP-HDW20F (FH)*-6		6				11.9	20.6			59 (49)
VSP-HDW25F (FH)*-2	25	1.8	51.3 (46.5)	14.3 (9.5)	41 (36.2)	8.4	14.7	5.2	1.6 to 2.9	56 (46)
VSP-HDW25F (FH)*-4		4				11.2	18.8			58 (48)
VSP-HDW25F (FH)*-6		6				11.9	20.6			60 (50)
VSP-HDW30F (FH)*-2	30	1.8	51.3 (46.5)	14.3 (9.5)	41 (36.2)	8.4	14.7	5.2	1.6 to 2.9	57 (47)
VSP-HDW30F (FH)*-4		4				11.2	18.8			59 (49)
VSP-HDW30F (FH)*-6		6				11.9	20.6			61 (51)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW10, 15F(FH)*-4T/6T

●VSP-HDW20 to 30F(FH)*-4T/6T



Unit: mm

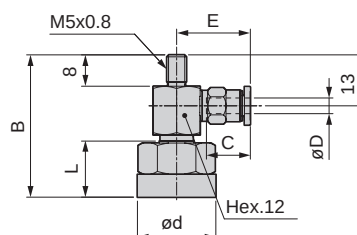
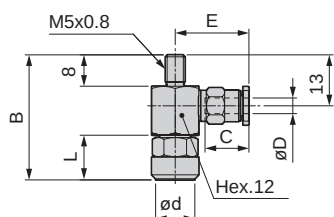
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10F (FH)*-4T	10	2.5	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	15.9	5.2	1.6 to 2.9	36 (35)
VSP-HDW10F (FH)*-6T		4							
VSP-HDW15F (FH)*-4T	15	2.5	46.9 (45.1)	11.4 (9.6)	36.6 (34.8)	15.9	5.2	1.6 to 2.9	37 (36)
VSP-HDW15F (FH)*-6T		4							
VSP-HDW20F (FH)*-4T	20	2.5	51.3 (46.5)	14.3 (9.5)	41 (36.2)	15.9	5.2	1.6 to 2.9	54 (44)
VSP-HDW20F (FH)*-6T		4							
VSP-HDW25F (FH)*-4T	25	2.5	51.3 (46.5)	14.3 (9.5)	41 (36.2)	15.9	5.2	1.6 to 2.9	55 (45)
VSP-HDW25F (FH)*-6T		4							
VSP-HDW30F (FH)*-4T	30	2.5	51.3 (46.5)	14.3 (9.5)	41 (36.2)	15.9	5.2	1.6 to 2.9	56 (46)
VSP-HDW30F (FH)*-6T		4							

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (low back fixed, vacuum outlet side VSP-HE, push-in fitting)

●VSP-HE10, 15F(FH)*-2/4/6

●VSP-HE20 to 30F(FH)*-2/4/6



Unit: mm

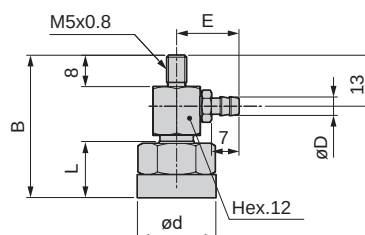
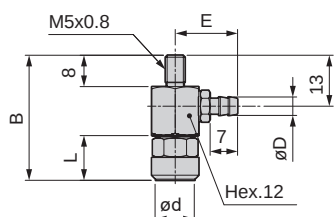
Model No.	Pad diameter Ød	Bore size ØD	B	L	Tube end C	E	Weight (g)
VSP-HE10F (FH)*-2	10	1.8	31.9 (30.1)	11.4 (9.6)	8.4	14.7	22 (21)
VSP-HE10F (FH)*-4		4			11.2	18.8	23 (22)
VSP-HE10F (FH)*-6		6			11.9	20.6	24 (23)
VSP-HE15F (FH)*-2	15	1.8	31.9 (30.1)	11.4 (9.6)	8.4	14.7	23 (22)
VSP-HE15F (FH)*-4		4			11.2	18.8	24 (23)
VSP-HE15F (FH)*-6		6			11.9	20.6	25 (24)
VSP-HE20F (FH)*-2	20	1.8	36.3 (31.5)	14.3 (9.5)	8.4	14.7	38 (28)
VSP-HE20F (FH)*-4		4			11.2	18.8	39 (29)
VSP-HE20F (FH)*-6		6			11.9	20.6	40 (30)
VSP-HE25F (FH)*-2	25	1.8	36.3 (31.5)	14.3 (9.5)	8.4	14.7	39 (29)
VSP-HE25F (FH)*-4		4			11.2	18.8	40 (30)
VSP-HE25F (FH)*-6		6			11.9	20.6	41 (31)
VSP-HE30F (FH)*-2	30	1.8	36.3 (31.5)	14.3 (9.5)	8.4	14.7	40 (30)
VSP-HE30F (FH)*-4		4			11.2	18.8	41 (31)
VSP-HE30F (FH)*-6		6			11.9	20.6	42 (32)

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (low back fixed, vacuum outlet side VSP-HE, barbed fitting)

●VSP-HE10, 15F(FH)*-4T/6T

●VSP-HE20 to 30F(FH)*-4T/6T



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L	E	Weight (g)
VSP-HE10F (FH)*-4T	10	2.5	31.9 (30.1)	11.4 (9.6)	15.9	21 (20)
VSP-HE10F (FH)*-6T		4				
VSP-HE15F (FH)*-4T	15	2.5	31.9 (30.1)	11.4 (9.6)	15.9	22 (21)
VSP-HE15F (FH)*-6T		4				
VSP-HE20F (FH)*-4T	20	2.5	36.3 (31.5)	14.3 (9.5)	15.9	38 (28)
VSP-HE20F (FH)*-6T		4				
VSP-HE25F (FH)*-4T	25	2.5	36.3 (31.5)	14.3 (9.5)	15.9	39 (29)
VSP-HE25F (FH)*-6T		4				
VSP-HE30F (FH)*-4T	30	2.5	36.3 (31.5)	14.3 (9.5)	15.9	40 (30)
VSP-HE30F (FH)*-6T		4				

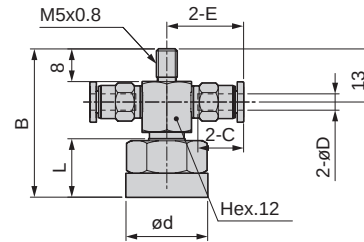
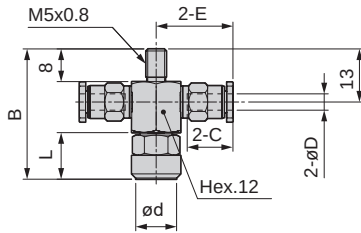
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, push-in fitting)

●VSP-HEW10, 15F(FH)*-2/4/6

●VSP-HEW20 to 30F(FH)*-2/4/6



Unit: mm

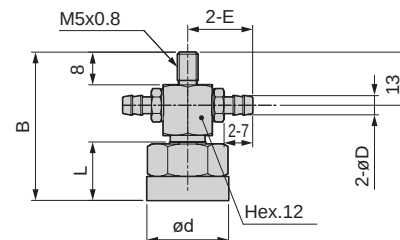
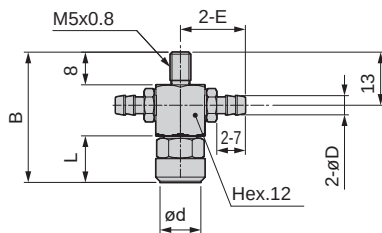
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW10F (FH)*-2	10	1.8	31.9 (30.1)	11.4 (9.6)	8.4	14.7	23 (22)
VSP-HEW10F (FH)*-4		4			11.2	18.8	25 (24)
VSP-HEW10F (FH)*-6		6			11.9	20.6	27 (26)
VSP-HEW15F (FH)*-2	15	1.8	31.9 (30.1)	11.4 (9.6)	8.4	14.7	24 (23)
VSP-HEW15F (FH)*-4		4			11.2	18.8	26 (25)
VSP-HEW15F (FH)*-6		6			11.9	20.6	28 (27)
VSP-HEW20F (FH)*-2	20	1.8	36.3 (31.5)	14.3 (9.5)	8.4	14.7	40 (30)
VSP-HEW20F (FH)*-4		4			11.2	18.8	42 (32)
VSP-HEW20F (FH)*-6		6			11.9	20.6	44 (34)
VSP-HEW25F (FH)*-2	25	1.8	36.3 (31.5)	14.3 (9.5)	8.4	14.7	41 (31)
VSP-HEW25F (FH)*-4		4			11.2	18.8	43 (33)
VSP-HEW25F (FH)*-6		6			11.9	20.6	45 (35)
VSP-HEW30F (FH)*-2	30	1.8	36.3 (31.5)	14.3 (9.5)	8.4	14.7	42 (32)
VSP-HEW30F (FH)*-4		4			11.2	18.8	44 (34)
VSP-HEW30F (FH)*-6		6			11.9	20.6	46 (36)

*1: Values in () are for flat intake flow rate. Increase the dimensions of the type.

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW10, 15F(FH)*-4T/6T

●VSP-HEW20 to 30F(FH)*-4T/6T



Unit: mm

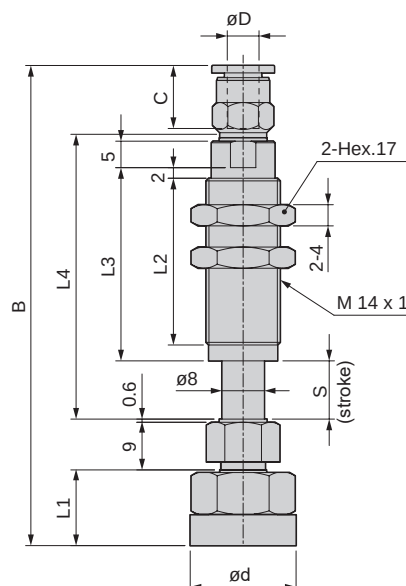
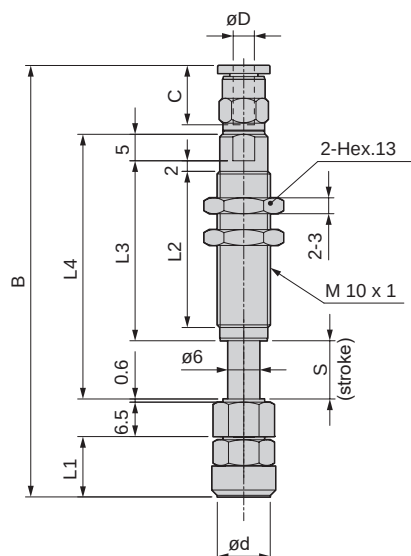
Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW10F (FH)*-4T	10	2.5	31.9 (30.1)	11.4 (9.6)	15.9	22 (21)
VSP-HEW10F (FH)*-6T		4				
VSP-HEW15F (FH)*-4T	15	2.5	31.9 (30.1)	11.4 (9.6)	15.9	23 (22)
VSP-HEW15F (FH)*-6T		4				
VSP-HEW20F (FH)*-4T	20	2.5	36.3 (32.5)	14.3 (10.5)	15.9	39 (29)
VSP-HEW20F (FH)*-6T		4				
VSP-HEW25F (FH)*-4T	25	2.5	36.3 (32.5)	14.3 (10.5)	15.9	40 (30)
VSP-HEW25F (FH)*-6T		4				
VSP-HEW30F (FH)*-4T	30	2.5	36.3 (32.5)	14.3 (10.5)	15.9	41 (31)
VSP-HEW30F (FH)*-6T		4				

*1: Values in () are dimensions of the flat intake flow rate increase type.

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC10, 15-□F(FH)*-4

●VSP-LFC20 to 30-□F(FH)*-4/6



Unit: mm

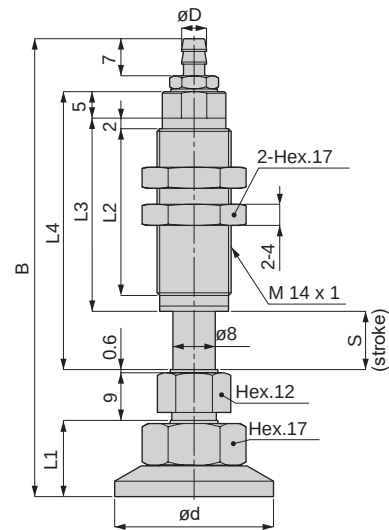
Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2F (FH)*-4	10	4	65.5 (63.7)	11.4 (9.6)	21.5	26	34	11.2	2	1.3 to 1.8	32 (31)
VSP-LFC10-5F (FH)*-4			71.5 (69.7)		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	34 (33)
VSP-LFC10-10F (FH)*-4			81.5 (79.7)		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	36 (35)
VSP-LFC10-15F (FH)*-4			91.5 (89.7)		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	38 (37)
VSP-LFC10-20F (FH)*-4			101.5 (99.7)		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	40 (39)
VSP-LFC15-2F (FH)*-4	15	4	65.5 (63.7)	11.4 (9.6)	21.5	26	34	11.2	2	1.3 to 1.8	33 (32)
VSP-LFC15-5F (FH)*-4			71.5 (69.7)		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	35 (34)
VSP-LFC15-10F (FH)*-4			81.5 (79.7)		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	37 (36)
VSP-LFC15-15F (FH)*-4			91.5 (89.7)		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	39 (38)
VSP-LFC15-20F (FH)*-4			101.5 (99.7)		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	41 (40)
VSP-LFC20-5F (FH)*-4	20	4	79.4 (74.6)	14.3 (9.5)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	75 (65)
VSP-LFC20-5F (FH)*-6		6	80.7 (75.9)					11.9			76 (66)
VSP-LFC20-10F (FH)*-4		4	89.4 (84.6)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	77 (67)
VSP-LFC20-10F (FH)*-6		6	90.7 (85.9)					11.9			78 (68)
VSP-LFC20-15F (FH)*-4		4	99.4 (94.6)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	80 (70)
VSP-LFC20-15F (FH)*-6		6	100.7 (95.9)					11.9			81 (71)
VSP-LFC20-20F (FH)*-4		4	109.4 (104.6)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	83 (73)
VSP-LFC20-20F (FH)*-6		6	110.7 (105.9)					11.9			84 (74)
VSP-LFC25-5F (FH)*-4	25	4	79.4 (74.6)	14.3 (9.5)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	76 (66)
VSP-LFC25-5F (FH)*-6		6	80.7 (75.9)					11.9			77 (67)
VSP-LFC25-10F (FH)*-4		4	89.4 (84.6)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	78 (68)
VSP-LFC25-10F (FH)*-6		6	90.7 (85.9)					11.9			79 (69)
VSP-LFC25-15F (FH)*-4		4	99.4 (94.6)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	81 (71)
VSP-LFC25-15F (FH)*-6		6	100.7 (95.9)					11.9			82 (72)
VSP-LFC25-20F (FH)*-4		4	109.4 (104.6)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	84 (74)
VSP-LFC25-20F (FH)*-6		6	110.7 (105.9)					11.9			85 (75)
VSP-LFC30-5F (FH)*-4	30	4	79.4 (74.6)	14.3 (9.5)	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	78 (67)
VSP-LFC30-5F (FH)*-6		6	80.7 (75.9)					11.9			79 (68)
VSP-LFC30-10F (FH)*-4		4	89.4 (84.6)		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	80 (69)
VSP-LFC30-10F (FH)*-6		6	90.7 (85.9)					11.9			81 (70)
VSP-LFC30-15F (FH)*-4		4	99.4 (94.6)		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	83 (72)
VSP-LFC30-15F (FH)*-6		6	100.7 (95.9)					11.9			84 (73)
VSP-LFC30-20F (FH)*-4		4	109.4 (104.6)		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	86 (75)
VSP-LFC30-20F (FH)*-6		6	110.7 (105.9)					11.9			87 (76)

*1: Values in () are dimensions of the flat intake flow rate increase type.

*2: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, barbed fitting)

●VSP-LFC20 to 30-□F(FH)*-4T/6T



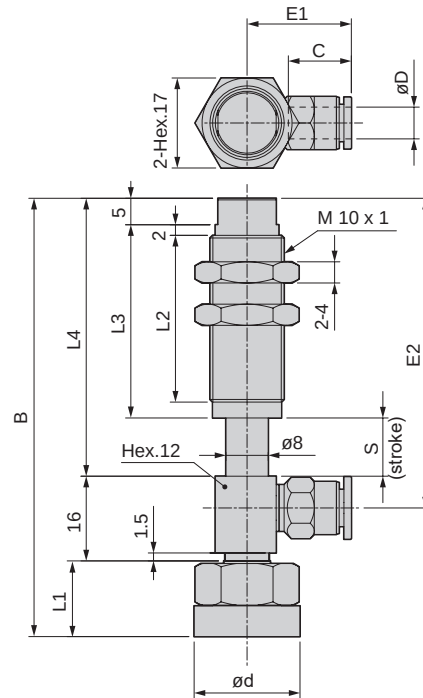
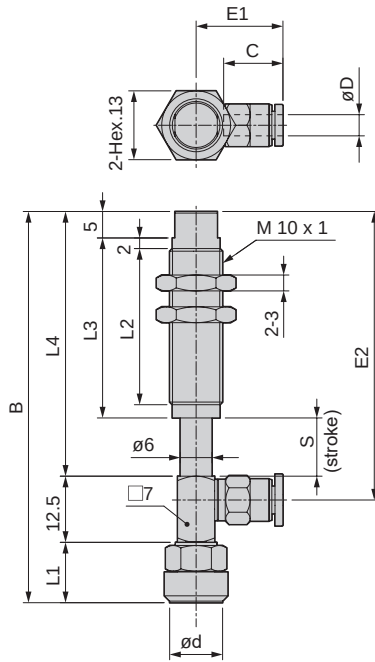
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2F (FH)*-4T	10	2.5	62.6 (60.8)	11.4 (9.6)	21.5	26	34	2	1.3 to 1.8	30 (29)
VSP-LFC10-2F (FH)*-6T		4								
VSP-LFC10-5F (FH)*-4T		2.5	68.6 (66.8)		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	32 (31)
VSP-LFC10-5F (FH)*-6T		4								
VSP-LFC10-10F (FH)*-4T		2.5	78.6 (76.8)		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	34 (33)
VSP-LFC10-10F (FH)*-6T		4								
VSP-LFC10-15F (FH)*-4T		2.5	88.6 (86.8)		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	36 (35)
VSP-LFC10-15F (FH)*-6T		4								
VSP-LFC10-20F (FH)*-4T		2.5	98.6 (96.8)		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	38 (37)
VSP-LFC10-20F (FH)*-6T		4								
VSP-LFC15-2F (FH)*-4T	15	2.5	62.6 (60.8)	11.4 (9.6)	21.5	26	34	2	1.3 to 1.8	31 (30)
VSP-LFC15-2F (FH)*-6T		4								
VSP-LFC15-5F (FH)*-4T		2.5	68.6 (66.8)		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	33 (32)
VSP-LFC15-5F (FH)*-6T		4								
VSP-LFC15-10F (FH)*-4T		2.5	78.6 (76.8)		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	35 (34)
VSP-LFC15-10F (FH)*-6T		4								
VSP-LFC15-15F (FH)*-4T		2.5	88.6 (86.8)		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	37 (36)
VSP-LFC15-15F (FH)*-6T		4								
VSP-LFC15-20F (FH)*-4T		2.5	98.6 (96.8)		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	39 (38)
VSP-LFC15-20F (FH)*-6T		4								
VSP-LFC20-5F (FH)*-4T	20	2.5	76.5 (71.7)	14.3 (9.5)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	70 (60)
VSP-LFC20-5F (FH)*-6T		4								
VSP-LFC20-10F (FH)*-4T		2.5	86.5 (81.7)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	72 (62)
VSP-LFC20-10F (FH)*-6T		4								
VSP-LFC20-15F (FH)*-4T		2.5	96.5 (91.7)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	75 (65)
VSP-LFC20-15F (FH)*-6T		4								
VSP-LFC20-20F (FH)*-4T		2.5	106.5 (101.7)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	78 (68)
VSP-LFC20-20F (FH)*-6T		4								
VSP-LFC25-5F (FH)*-4T	25	2.5	76.5 (71.7)	14.3 (9.5)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	71 (61)
VSP-LFC25-5F (FH)*-6T		4								
VSP-LFC25-10F (FH)*-4T		2.5	86.5 (81.7)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	73 (63)
VSP-LFC25-10F (FH)*-6T		4								
VSP-LFC25-15F (FH)*-4T		2.5	96.5 (91.7)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	76 (76)
VSP-LFC25-15F (FH)*-6T		4								
VSP-LFC25-20F (FH)*-4T		2.5	106.5 (101.7)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	79 (69)
VSP-LFC25-20F (FH)*-6T		4								
VSP-LFC30-5F (FH)*-4T	30	2.5	76.5 (71.7)	14.3 (9.5)	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	73 (62)
VSP-LFC30-5F (FH)*-6T		4								
VSP-LFC30-10F (FH)*-4T		2.5	86.5 (81.7)		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	75 (64)
VSP-LFC30-10F (FH)*-6T		4								
VSP-LFC30-15F (FH)*-4T		2.5	96.5 (91.7)		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	78 (67)
VSP-LFC30-15F (FH)*-6T		4								
VSP-LFC30-20F (FH)*-4T		2.5	106.5 (101.7)		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	81 (70)
VSP-LFC30-20F (FH)*-6T		4								

*2: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, push-in fitting)

●VSP-LFD10, 15-□F(FH)*-4

●VSP-LFD20 to 30-□F(FH)*-4/6



Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5F (FH)*-4	10	4	63.9 (62.1)	11.4 (9.6)	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	30 (29)
VSP-LFD10-10F (FH)*-4			73.9 (72.1)		29.5	34	50			54.5	10	1.3 to 3.3	32 (31)
VSP-LFD10-15F (FH)*-4			83.9 (82.1)		34.5	39	60			64.5	15	1.3 to 4.2	34 (33)
VSP-LFD10-20F (FH)*-4			93.9 (92.1)		39.5	44	70			74.5	20	1.3 to 5.1	36 (35)
VSP-LFD15-5F (FH)*-4	15	4	63.9 (62.1)	11.4 (9.6)	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	31 (30)
VSP-LFD15-10F (FH)*-4			73.9 (72.1)		29.5	34	50			54.5	10	1.3 to 3.3	33 (32)
VSP-LFD15-15F (FH)*-4			83.9 (82.1)		34.5	39	60			64.5	15	1.3 to 4.2	35 (34)
VSP-LFD15-20F (FH)*-4			93.9 (92.1)		39.5	44	70			74.5	20	1.3 to 5.1	37 (36)
VSP-LFD20-5F (FH)*-4	20	4	72.8 (68)	14.3 (9.5)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	76 (66)
VSP-LFD20-5F (FH)*-6		6						11.9	19.7				77 (67)
VSP-LFD20-10F (FH)*-4		4						11.2	18.4		10	4.5 to 8.2	80 (70)
VSP-LFD20-10F (FH)*-6		6						11.9	19.7				81 (71)
VSP-LFD20-15F (FH)*-4		4						11.2	18.4	68.5	15	4.5 to 9.9	84 (74)
VSP-LFD20-15F (FH)*-6		6						11.9	19.7				85 (75)
VSP-LFD20-20F (FH)*-4		4						11.2	18.4	78.5	20	4.5 to 14.9	88 (78)
VSP-LFD20-20F (FH)*-6		6						11.9	19.7				89 (79)
VSP-LFD25-5F (FH)*-4	25	4	72.8 (68)	14.3 (9.5)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	77 (67)
VSP-LFD25-5F (FH)*-6		6						11.9	19.7				78 (68)
VSP-LFD25-10F (FH)*-4		4						11.2	18.4		10	4.5 to 8.2	81 (71)
VSP-LFD25-10F (FH)*-6		6						11.9	19.7				82 (72)
VSP-LFD25-15F (FH)*-4		4						11.2	18.4	68.5	15	4.5 to 9.9	85 (75)
VSP-LFD25-15F (FH)*-6		6						11.9	19.7				86 (76)
VSP-LFD25-20F (FH)*-4		4						11.2	18.4	78.5	20	4.5 to 14.9	89 (79)
VSP-LFD25-20F (FH)*-6		6						11.9	19.7				90 (80)
VSP-LFD30-5F (FH)*-4	30	4	72.8 (68)	14.3 (9.5)	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	79 (68)
VSP-LFD30-5F (FH)*-6		6						11.9	19.7				80 (69)
VSP-LFD30-10F (FH)*-4		4						11.2	18.4		10	4.5 to 8.2	83 (72)
VSP-LFD30-10F (FH)*-6		6						11.9	19.7				84 (73)
VSP-LFD30-15F (FH)*-4		4						11.2	18.4	68.5	15	4.5 to 9.9	87 (76)
VSP-LFD30-15F (FH)*-6		6						11.9	19.7				88 (77)
VSP-LFD30-20F (FH)*-4		4						11.2	18.4	78.5	20	4.5 to 14.9	91 (80)
VSP-LFD30-20F (FH)*-6		6						11.9	19.7				92 (81)

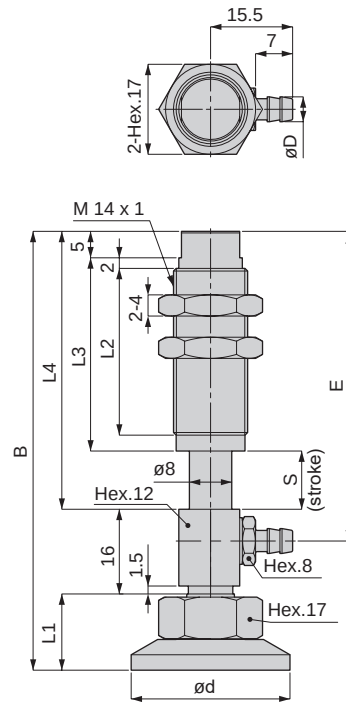
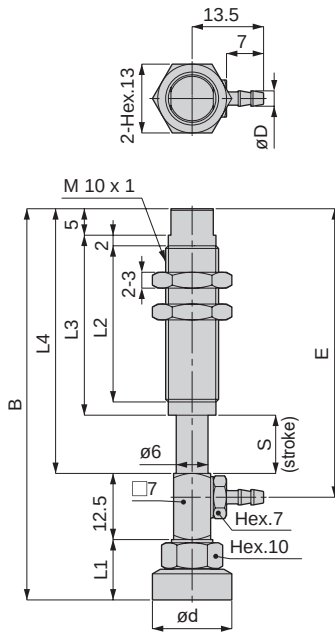
*1: Values in () are dimensions of the flat intake flow rate increase type.

VSP-*F, FH* Series

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD10, 15-□F(FH)*-4T/6T

●VSP-LFD20 to 30-□F(FH)*-4T/6T



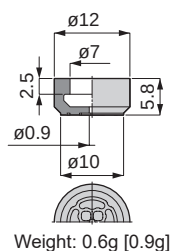
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5F (FH)*-4T	10	2.5	63.9 (62.1)	11.4 (9.6)	24.5	29	40	44.5	5	1.3 to 2.4	29 (28)
VSP-LFD10-5F (FH)*-6T		4									
VSP-LFD10-10F (FH)*-4T		2.5	73.9 (72.1)		29.5	34	50	54.5	10	1.3 to 3.3	31 (30)
VSP-LFD10-10F (FH)*-6T		4									
VSP-LFD10-15F (FH)*-4T		2.5	83.9 (82.1)		34.5	39	60	64.5	15	1.3 to 4.2	33 (32)
VSP-LFD10-15F (FH)*-6T		4									
VSP-LFD10-20F (FH)*-4T		2.5	93.9 (92.1)		39.5	44	70	74.5	20	1.3 to 5.1	35 (34)
VSP-LFD10-20F (FH)*-6T		4									
VSP-LFD15-5F (FH)*-4T	15	2.5	63.9 (62.1)	11.4 (9.6)	24.5	29	40	44.5	5	1.3 to 2.4	30 (29)
VSP-LFD15-5F (FH)*-6T		4									
VSP-LFD15-10F (FH)*-4T		2.5	73.9 (72.1)		29.5	34	50	54.5	10	1.3 to 3.3	32 (31)
VSP-LFD15-10F (FH)*-6T		4									
VSP-LFD15-15F (FH)*-4T		2.5	83.9 (82.1)		34.5	39	60	64.5	15	1.3 to 4.2	34 (33)
VSP-LFD15-15F (FH)*-6T		4									
VSP-LFD15-20F (FH)*-4T		2.5	93.9 (92.1)		39.5	44	70	74.5	20	1.3 to 5.1	36 (35)
VSP-LFD15-20F (FH)*-6T		4									
VSP-LFD20-5F (FH)*-4T	20	2.5	72.8 (68)	14.3 (9.5)	26.5	31.5	42.5	48.5	5	4.5 to 6.5	72 (62)
VSP-LFD20-5F (FH)*-6T		4									
VSP-LFD20-10F (FH)*-4T		2.5	82.8 (78)		31.5	36.5	52.5	58.5	10	4.5 to 8.2	75 (65)
VSP-LFD20-10F (FH)*-6T		4									
VSP-LFD20-15F (FH)*-4T		2.5	92.8 (88)		36.5	41.5	62.5	68.5	15	4.5 to 9.9	79 (69)
VSP-LFD20-15F (FH)*-6T		4									
VSP-LFD20-20F (FH)*-4T		2.5	102.8 (98)		41.5	46.5	72.5	78.5	20	4.5 to 14.9	83 (73)
VSP-LFD20-20F (FH)*-6T		4									
VSP-LFD25-5F (FH)*-4T	25	2.5	72.8 (68)	14.3 (9.5)	26.5	31.5	42.5	48.5	5	4.5 to 6.5	73 (63)
VSP-LFD25-5F (FH)*-6T		4									
VSP-LFD25-10F (FH)*-4T		2.5	82.8 (78)		31.5	36.5	52.5	58.5	10	4.5 to 8.2	76 (66)
VSP-LFD25-10F (FH)*-6T		4									
VSP-LFD25-15F (FH)*-4T		2.5	92.8 (88)		36.5	41.5	62.5	68.5	15	4.5 to 9.9	80 (70)
VSP-LFD25-15F (FH)*-6T		4									
VSP-LFD25-20F (FH)*-4T		2.5	102.8 (98)		41.5	46.5	72.5	78.5	20	4.5 to 14.9	84 (74)
VSP-LFD25-20F (FH)*-6T		4									
VSP-LFD30-5F (FH)*-4T	30	2.5	72.8 (68)	14.3 (9.5)	26.5	31.5	42.5	48.5	5	4.5 to 6.5	75 (64)
VSP-LFD30-5F (FH)*-6T		4									
VSP-LFD30-10F (FH)*-4T		2.5	82.8 (78)		31.5	36.5	52.5	58.5	10	4.5 to 8.2	78 (67)
VSP-LFD30-10F (FH)*-6T		4									
VSP-LFD30-15F (FH)*-4T		2.5	92.8 (88)		36.5	41.5	62.5	68.5	15	4.5 to 9.9	82 (71)
VSP-LFD30-15F (FH)*-6T		4									
VSP-LFD30-20F (FH)*-4T		2.5	102.8 (98)		41.5	46.5	72.5	78.5	20	4.5 to 14.9	86 (75)
VSP-LFD30-20F (FH)*-6T		4									

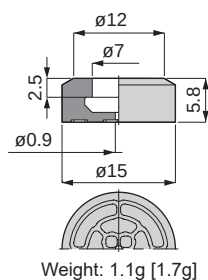
*1: Values in () are dimensions of the flat intake flow rate increase type.

Pad rubber only Dimensions (flat)

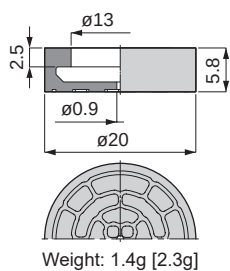
●VSPG-10F*



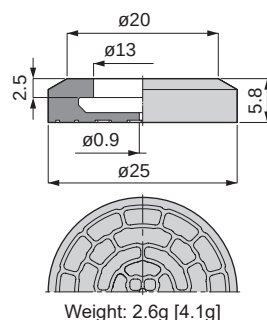
●VSPG-15F*



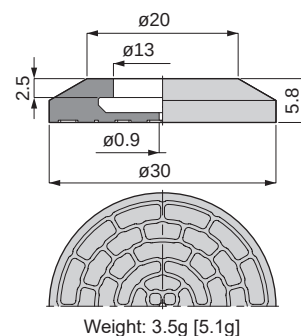
●VSPG-20F*



●VSPG-25F*

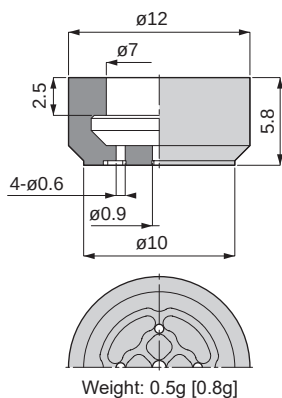


●VSPG-30F*

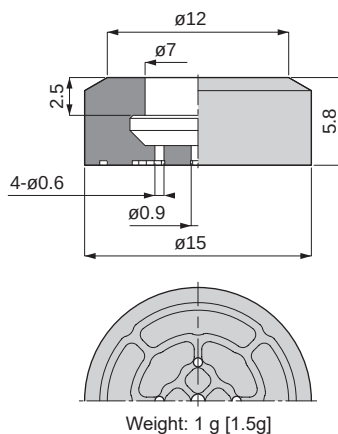


Pad rubber only Dimensions (flat suction flow rate increase type)

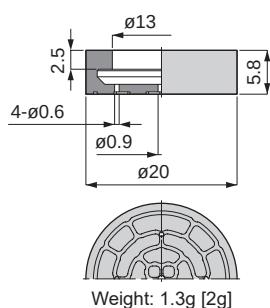
●VSPG-10FH*



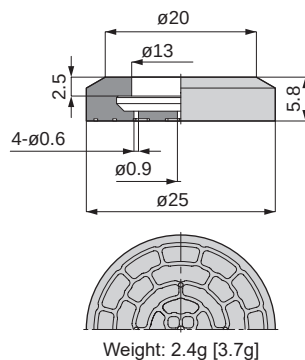
●VSPG-15FH*



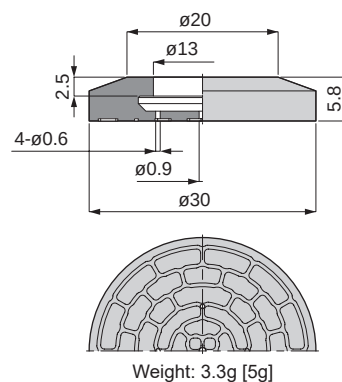
●VSPG-20FH*



●VSPG-25FH*



●VSPG-30FH*



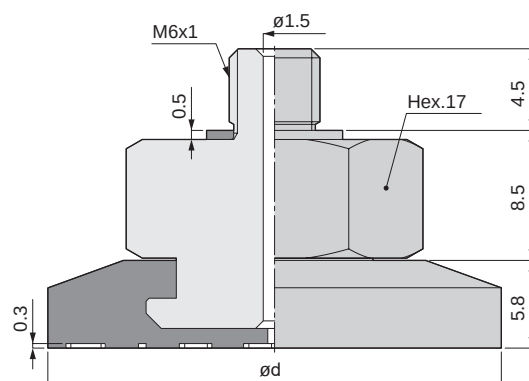
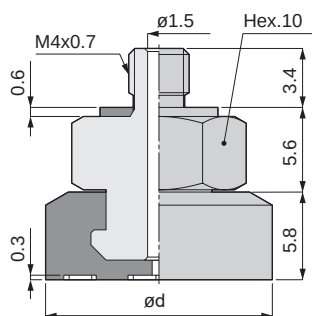
Note: Values in [] for fluoro rubber only.

VSPG-*F,FH* Series

Detailed view of pad and holder fixing part (flat type)

●VSPG-10, 15F*

●VSPG-20 to 30F*



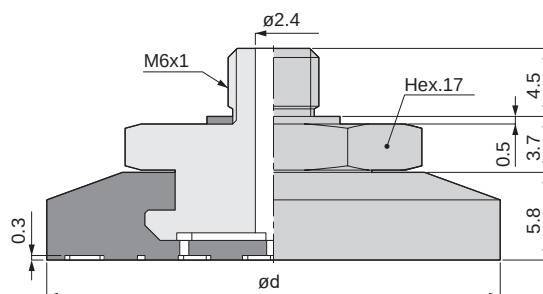
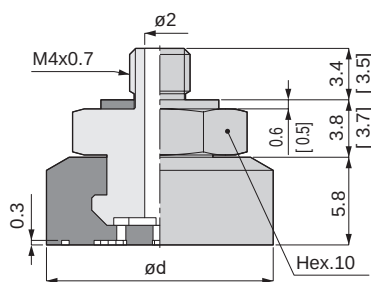
Unit: mm

Model No.	Pad diameter ød	Weight (g)
VSPG-10F*	10	5.6 [5.9]
VSPG-15F*	15	6.1 [6.7]
VSPG-20F*	20	23.4 [24.3]
VSPG-25F*	25	24.6 [26.1]
VSPG-30F*	30	25.5 [27.1]

Pad rubber only Dimensions (flat suction flow rate increase type)

●VSPG-10, 15FH*

●VSPG-20 to 30FH*



Unit: mm

Model No.	Pad diameter ød	Weight (g)
VSPG-10FH*	10	4.3 [4.6]
VSPG-15FH*	15	4.8 [5.3]
VSPG-20FH*	20	13.3 [14]
VSPG-25FH*	25	14.4 [15.7]
VSPG-30FH*	30	15.3 [17]

Note: Values in [] for fluoro rubber only.

Safety precautions



CAUTION

With the flat type, suction may be difficult for ventilated workpieces or workpieces that are prone to deformation with their own weight when suctioned. Be sure to conduct actual testing of suction on workpieces when making a selection.



Suction pad/suction mark prevention type

VSP-*Q* Series

Suction pad made of resin material for pad material that is resistant to suction marks



Ideal for liquid crystal glass, painting process and semiconductor manufacturing equipment transport

A wide range of holder variations

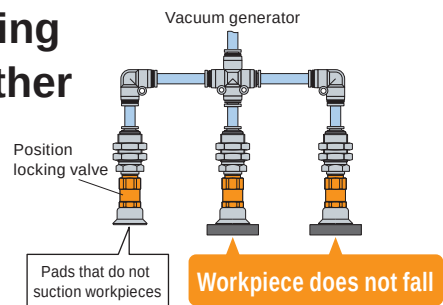
Shape	16types	Piping	5types	Stroke	11types
●Standard: 5 types	●Lightweight: 3 types	●Push-in fitting(ø1.8 to ø6): 3 types	2 mm to 50 mm (Depends on pad diameter and holder)		
●Compact: 4 types	●Low height: 2 types	●Barbed fitting(M3, M5): 2 types			
●Low dust generation: 2 types					

Low dust generation holders (LFC, LFD) are available, with minimal friction powder and low noise caused by sliding.

Flexible holder and resin pad can also suction tilted workpieces

Workpiece releasability during vacuum burst is also good.

Supports assembly option of position locking valve (V) that reduces vacuum drop in another circuit even without a workpiece



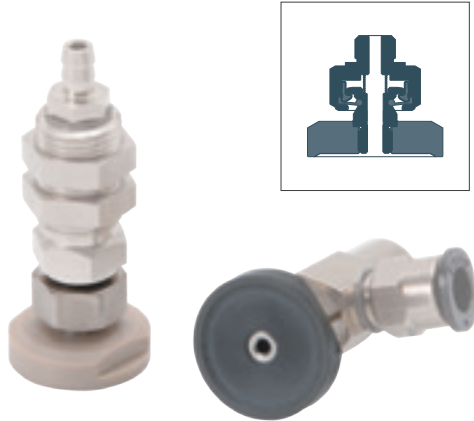
Resin pad used to prevent rubber material transfer that causes suction marks

Three types of resin materials are available for the pad section. Using a wrench and Allen wrench, the switch can be easily replaced without removing the body.

	K	M	KE
	PEEK	POM	Conductive PEEK
Material			
Features	It has excellent chemical resistance, heat resistance and mechanical strength. Ideal for liquid crystal and semiconductor manufacturing equipment.	The present invention has good wear resistance, self-lubrication properties, and excellent cost balance. Applicable to various manufacturing lines such as food-related and packaging machines.	In addition to the material characteristics of PEEK, it has conductivity to eliminate static electricity. Also applicable to electronic part manufacturing equipment.

VSP-*Q* Series

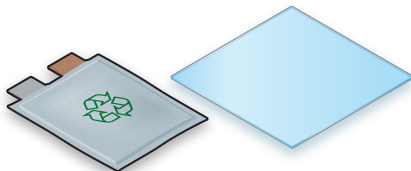
Pad shape



Flexible holder is provided as standard to enable suction of tilted workpieces.

Recommended workpiece

Ideal for liquid crystal glass, painting process and semiconductor manufacturing equipment, etc.



Pad diameter

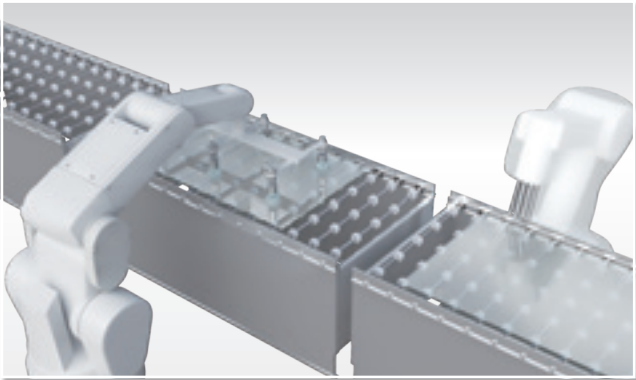
3 types	10	20	30
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Pad material

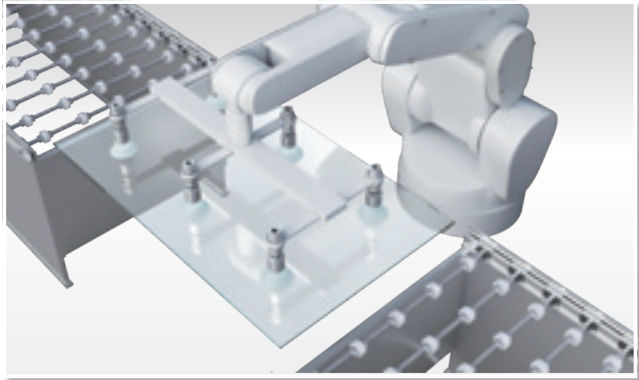
3 types	PEEK	POM	Conductive POM
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Solution examples

Workpieces that must not have suction marks
It is a hard pad that uses resin instead of rubber, allowing handling of glass substrates and solar cells without suction marks.



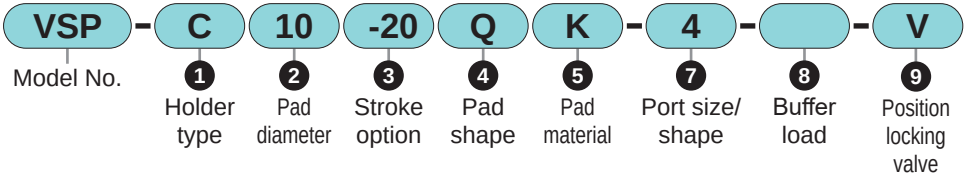
Transport of glass substrates and solar cells
FPD, solar cell, etc.



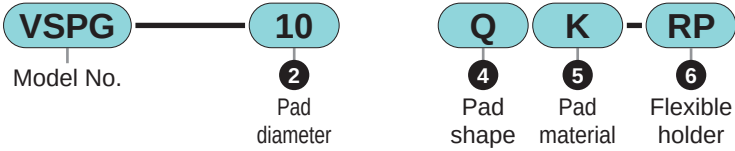
How to order

●Suction mark prevention

Suction pad



Resin pad only



1 Holder type

With/without buffer	Type	Vacuum outlet	Code	
Fixed	Standard	Upward direction	A	
	Compact		MA	
	Standard	Lateral direction	B	
	Compact		MB	
	Low height		HE	
	Low height	Both lateral directions	HEW	
Buffer type	Standard	Upward direction	C	
	Compact		MC	
	Low dust generation		LFC	
	Lightweight	Lateral direction	HC	
	Standard		D	
	Compact		MD	
	Low dust generation		LFD	
	Lightweight	Both lateral directions	HD	
	Standard		HDW	
	Standard	Direct mounting	F	

4 Pad shape

Code	Description	
Q	Suction mark prevention	

5 Pad material

Code	Description	
K	PEEK	
M	POM	
KE	Conductive PEEK	

3 Stroke option

Description	C	D	HC	LFC	LFD	Code
Specified stroke or without buffer	●	●				Blank
Stroke 2 mm				●		-2
Stroke 5 mm				●	●	-5
Stroke 10 mm	●	●	●	●	●	-10
Stroke 15 mm	●	●	●	●	●	-15
Stroke 20 mm	●	●	●	●	●	-20
Stroke 25 mm			●			-25
Stroke 30 mm	●	●	●			-30
Stroke 40 mm	●	●	●			-40
Stroke 50 mm	●	●	●			-50

*1: 1 Other than C, D, HC, LFC, LFD, 3 is blank.
*2: 2 For blank designated strokes, check the stroke dimensions with the O.D. dimensions.
*3: 2 For 10, 3-2 can be selected.

6 Flexible holder

Code	Description
Blank	Resin pad + flexible holder
RP	Resin pad only

How to order

Specifications for rechargeable battery (Catalog No.CC-1226A)

●Design compatible with rechargeable battery manufacturing process

VSP - - P4*

Specifications for food manufacturing processes (Catalog No.CC-1271A)

●Food-grade lubricants that can be used in food manufacturing processes, and resin/rubber materials that are compatible with the Food Sanitation Act are used

VSP - - FP*

7 Port size/shape

Description	Holder type														Code	
	A	B	C	D	MA	MB	MC	MD	LFC	LFD	HC	HD	HDW	HE	HEW	
(1:When F)																Blank
ø1.8 push-in fitting						●	●	●			●	●	●	●	●	2
ø4 push-in fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4
ø6 push-in fitting	●	●	●	●		●		●	●	●	●	●	●	●	●	6
ø4 Push-in fitting, without spring cover			●	●												4C
ø6 Push-in fitting, without spring cover			●	●												6C
ø4 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	4T
ø6 barbed fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6T
ø4 barbed fitting, without spring cover			●	●												4TC
ø6 Barbed fitting, without spring cover			●	●												6TC

*1: 1 C, D 3-20 up-For 50, 7 4C, 6C, 4TC, 6TC can be selected.
*2: 2 The port size and shape that can be selected differ depending on the pad diameter. Check with the combination table below.

8 Buffer load

Code	Description
Blank	Standard load or without buffer
L	Low load (1/4 of standard load)

*1: 1 Except for LFC, 3 is Blank.
*2: For 3-2, 3 is Blank.

9 Position locking valve

Code	Description	
Blank	None	
V	With position locking valve	

Holder shape - pad diameter - pad shape - port size/shape combinations

Holder type	Pad diameter	Push-in fitting				Barbed fitting			
		ø4		ø6		ø4		ø6	
		4	4C	6	6C	4T	4TC	6T	6TC
A	ø10			●				●	
	ø20, ø30	●		●		●		●	
B	All sizes	●		●		●		●	
C	All sizes	●	●	●	●	●	●	●	●
D	All sizes	●	●	●	●	●	●	●	●

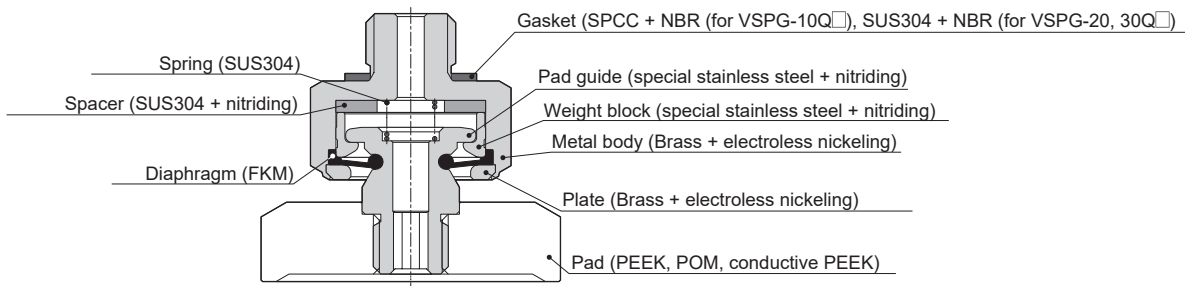
Holder type	Pad diameter	Thread
		M14
		Blank
F	All sizes	●

Holder type	Pad diameter	Push-in fitting			Barbed fitting	
		ø1.8	ø4	ø6	ø4	ø6
		2	4	6	4T	6T
MA	ø10		●		●	
	ø20, ø30		●		●	●
MB	All sizes	●	●	●	●	●
MC	All sizes	●	●		●	●
MD	All sizes	●	●	●	●	●
LFC	ø10		●		●	●
	ø20, ø30		●	●	●	●
LFD	ø10		●		●	●
	ø20, ø30		●	●	●	●
HC	All sizes	●	●	●	●	●
HD	All sizes	●	●	●	●	●
HDW	All sizes	●	●	●	●	●
HE	All sizes	●	●	●	●	●
HEW	All sizes	●	●	●	●	●

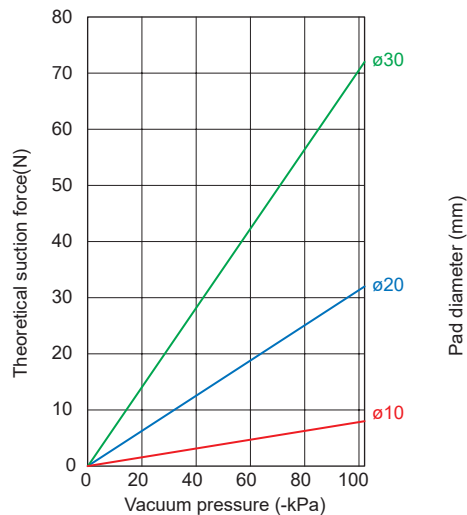
Specifications of flexible holder

Working fluid	Air
Operating vacuum pressure	0 to -100 kPa
Operating ambient temperature range	0 to 60°C (no freezing)

Structure drawing



Theoretical suction force

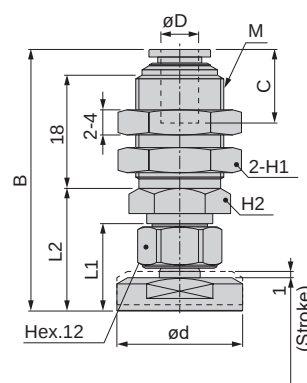
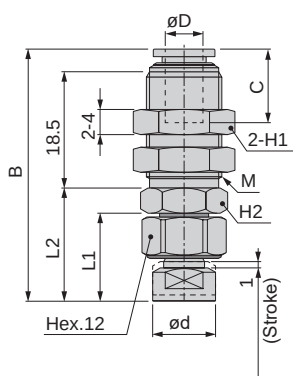


*1: Because the theoretical suction force is the value at static conditions, adopt a safety factor of 1/4 for horizontal lifting and 1/8 for vertical lifting in actual use.

Dimensions (fixed, vacuum outlet top VSP-A, push-in fitting)

●VSP-A10Q*-6

●VSP-A20, 30Q*-4/6



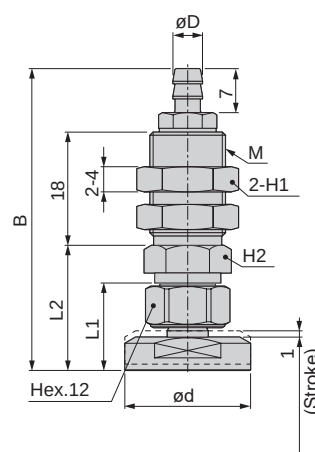
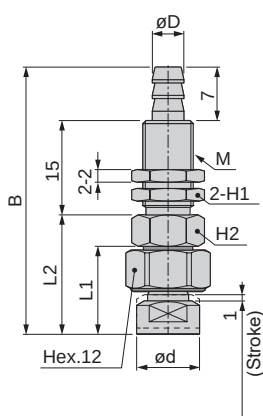
Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Tube end C	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10Q*-6	10	6	M 12 x 1	40.3	14	18	11.9	14	12	27
VSP-A20Q*-4	20	4	M 12 x 1	50.8	13.9	19.9	11.2	14	12	35
VSP-A20Q*-6		6	M 14 x 1	41.8		19.5	11.9	17	14	41
VSP-A30Q*-4	30	4	M 12 x 1	50.8	13.9	19.9	11.2	14	12	39
VSP-A30Q*-6		6	M 14 x 1	41.8		19.5	11.9	17	14	45

Dimensions (fixed, vacuum outlet top VSP-A, barbed fitting)

●VSP-A10Q*-6T

●VSP-A20, 30Q*-4T/6T



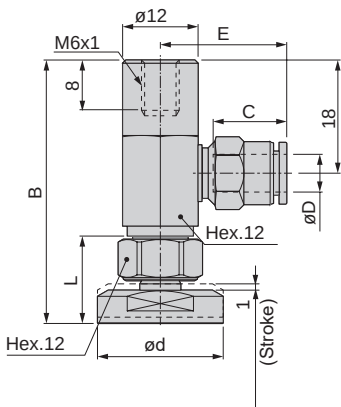
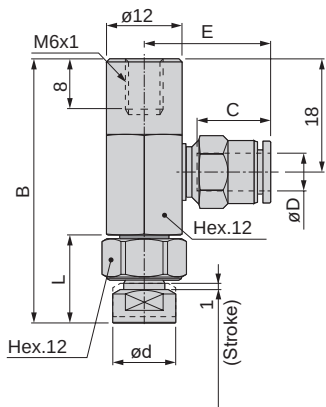
Unit: mm

Model No.	Pad diameter ød	Bore size øD	Mounting screw M	B	L1	L2	Hexagon H1	Hexagon H2	Weight (g)
VSP-A10Q*-6T	10	6	M 8 x 0.75	41	14	19	10	10	17
VSP-A20Q*-4T	20	4	M 12 x 1	47.9	13.9	19.9	14	12	34
VSP-A20Q*-6T		6							
VSP-A30Q*-4T	30	4	M 12 x 1	47.9	13.9	19.9	14	12	36
VSP-A30Q*-6T		6							

Dimensions (fixed, vacuum outlet side VSP-B, push-in fitting)

●VSP-B10Q*-4/6

●VSP-B20, 30Q*-4/6

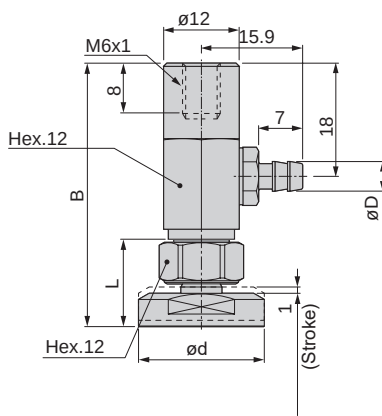
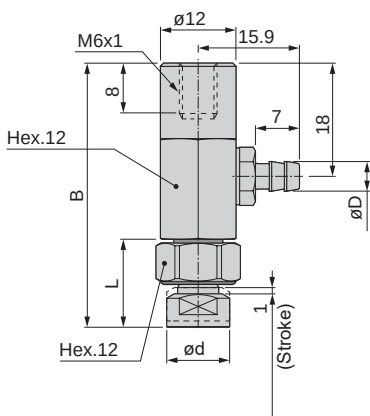


Unit: mm							
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-B10Q*-4	10	4	42	14	11.2	18.8	35
VSP-B10Q*-6		6			11.9	20.1	36
VSP-B20Q*-4	20	4	41.9	13.9	11.2	18.8	37
VSP-B20Q*-6		6			11.9	20.1	38
VSP-B30Q*-4	30	4	41.9	13.9	11.2	18.8	41
VSP-B30Q*-6		6			11.9	20.1	42

Dimensions (fixed, vacuum outlet side VSP-B, barbed fitting)

●VSP-B10Q*-4T/6T

●VSP-B20, 30Q*-4T/6T

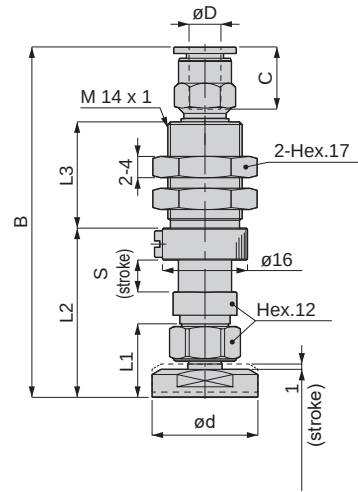
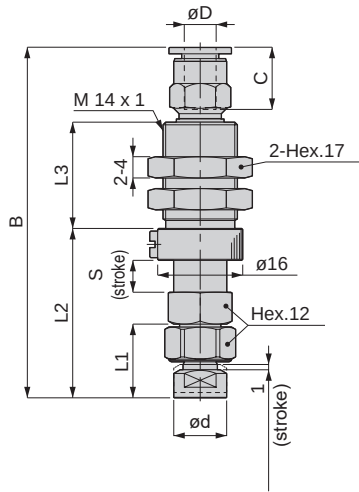


Unit: mm					
Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-B10Q*-4T	10	2.5	42	14	34
VSP-B10Q*-6T		4			
VSP-B20Q*-4T	20	2.5	41.9	13.9	36
VSP-B20Q*-6T		4			
VSP-B30Q*-4T	30	2.5	41.9	13.9	38
VSP-B30Q*-6T		4			

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting)

- VSP-C10Q*-4/6
- VSP-C10-□Q*-4/6

- VSP-C20, 30Q*-4/6
- VSP-C20, 30-□Q*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C10Q*-4	10	4	65	14	32	20	11.2	6	4.0 to 7.1	40
VSP-C10Q*-6		6	66.3				11.9			41
VSP-C10-10Q*-4		4	69.5				11.2			41
VSP-C10-10Q*-6		6	70.8				11.9			42
VSP-C10-15Q*-4		4	79.5		41.5	25	11.2	15	2.0 to 5.9	46
VSP-C10-15Q*-6		6	80.8				11.9			47
VSP-C10-20Q*-4		4	95.5		48.5	34	11.2	20	1.1 to 4.8	54
VSP-C10-20Q*-6		6	96.8				11.9			55
VSP-C20Q*-4	20	4	64.9	13.9	31.9	20	11.2	6	7.0 to 12.6	43
VSP-C20Q*-6		6	66.2				11.9			44
VSP-C20-10Q*-4		4	70.9				11.2	10	3.3 to 10.0	45
VSP-C20-10Q*-6		6	72.2				11.9			46
VSP-C20-15Q*-4		4	80.9		42.9	25	11.2	15	3.3 to 10.4	50
VSP-C20-15Q*-6		6	82.2				11.9			51
VSP-C20-20Q*-4		4	96.9		49.9	34	11.2	20	2.0 to 8.7	57
VSP-C20-20Q*-6		6	98.2				11.9			58
VSP-C30Q*-4	30	4	64.9	13.9	31.9	20	11.2	6	7.0 to 12.6	47
VSP-C30Q*-6		6	66.2				11.9			48
VSP-C30-10Q*-4		4	70.9				11.2	10	3.3 to 10.0	49
VSP-C30-10Q*-6		6	72.2				11.9			50
VSP-C30-15Q*-4		4	80.9		42.9	25	11.2	15	3.3 to 10.4	54
VSP-C30-15Q*-6		6	82.2				11.9			55
VSP-C30-20Q*-4		4	96.9		49.9	34	11.2	20	2.0 to 8.7	61
VSP-C30-20Q*-6		6	98.2				11.9			62

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

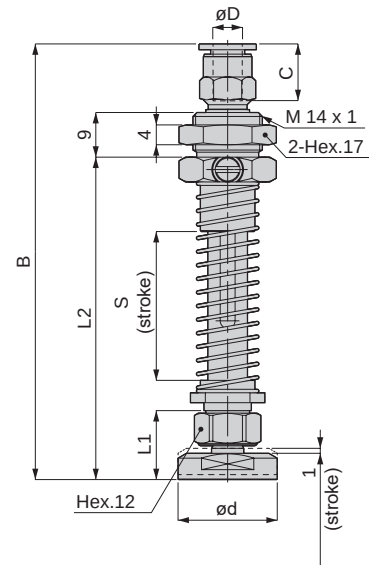
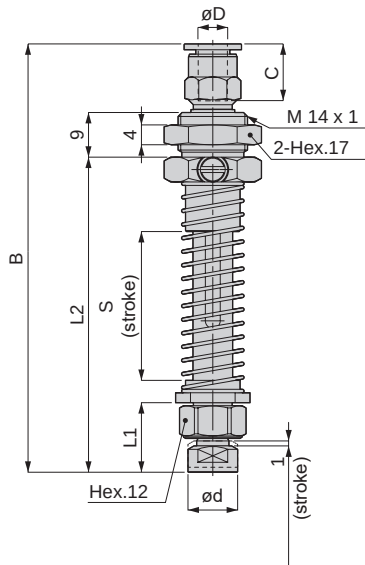
Suction mark
prevention

VSP-*Q* Series

Dimensions (buffer, vacuum outlet top VSP-C, push-in fitting without spring cover)

●VSP-C10-□Q*-4C/6C

●VSP-C20, 30-□Q*-4C/6C



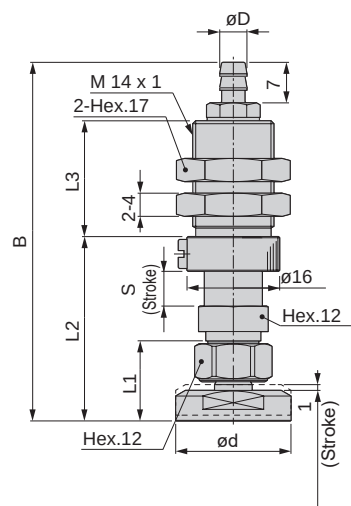
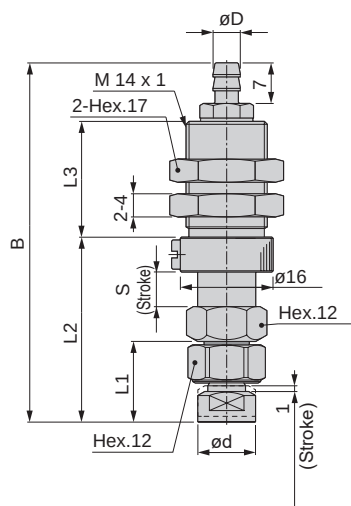
Unit: mm

Model No.	Pad diameter øD	Bore size øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-C10-20Q*-4C	10	4	72.5	14	50.5	11.2	20	1.5 to 4.9	49
VSP-C10-20Q*-6C		6	73.8			11.9			50
VSP-C10-30Q*-4C		4	85.5		63.5	11.2	30	1.1 to 4.8	54
VSP-C10-30Q*-6C		6	86.8			11.9			55
VSP-C10-40Q*-4C		4	98.5		76.5	11.2	40	1.0 to 4.5	59
VSP-C10-40Q*-6C		6	99.8			11.9			60
VSP-C10-50Q*-4C		4	111.5		89.5	11.2	50	0.9 to 4.5	64
VSP-C10-50Q*-6C		6	112.8			11.9			65
VSP-C20-20Q*-4C	20	4	73.9	13.9	51.9	11.2	20	1.5 to 4.9	53
VSP-C20-20Q*-6C		6	75.2			11.9			54
VSP-C20-30Q*-4C		4	86.9		64.9	11.2	30	1.1 to 4.8	58
VSP-C20-30Q*-6C		6	88.2			11.9			59
VSP-C20-40Q*-4C		4	99.9		77.9	11.2	40	1.0 to 4.5	63
VSP-C20-40Q*-6C		6	101.2			11.9			64
VSP-C20-50Q*-4C		4	112.9		90.9	11.2	50	0.9 to 4.5	68
VSP-C20-50Q*-6C		6	114.2			11.9			69
VSP-C30-20Q*-4C	30	4	73.9	13.9	51.9	11.2	20	1.5 to 4.9	57
VSP-C30-20Q*-6C		6	75.2			11.9			58
VSP-C30-30Q*-4C		4	86.9		64.9	11.2	30	1.1 to 4.8	62
VSP-C30-30Q*-6C		6	88.2			11.9			63
VSP-C30-40Q*-4C		4	99.9		77.9	11.2	40	1.0 to 4.5	67
VSP-C30-40Q*-6C		6	101.2			11.9			68
VSP-C30-50Q*-4C		4	112.9		90.9	11.2	50	0.9 to 4.5	72
VSP-C30-50Q*-6C		6	114.2			11.9			73

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting)

- VSP-C10Q*-4T/6T
- VSP-C10-□Q*-4T/6T

- VSP-C20, 30Q*-4T/6T
- VSP-C20, 30-□Q*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)
VSP-C10Q*-4T	10	4	62.1	14	32	20	6	4.0 to 7.1	39
VSP-C10Q*-6T		6							
VSP-C10-10Q*-4T		4	66.6		36.5	10	2.0 to 5.2	40	
VSP-C10-10Q*-6T		6							
VSP-C10-15Q*-4T		4	76.6		41.5	25	15	2.0 to 5.9	45
VSP-C10-15Q*-6T		6							
VSP-C10-20Q*-4T		4	92.6		48.5	34	20	1.1 to 4.8	53
VSP-C10-20Q*-6T		6							
VSP-C20Q*-4T	20	4	62	13.9	31.9	20	6	7.0 to 12.6	43
VSP-C20Q*-6T		6							
VSP-C20-10Q*-4T		4	68		37.9	10	3.3 to 10.0	44	
VSP-C20-10Q*-6T		6							
VSP-C20-15Q*-4T		4	78		42.9	25	15	3.3 to 10.4	49
VSP-C20-15Q*-6T		6							
VSP-C20-20Q*-4T		4	94		49.9	34	20	2.0 to 8.7	56
VSP-C20-20Q*-6T		6							
VSP-C30Q*-4T	30	4	62	13.9	31.9	20	6	7.0 to 12.6	46
VSP-C30Q*-6T		6							
VSP-C30-10Q*-4T		4	68		37.9	10	3.3 to 10.0	48	
VSP-C30-10Q*-6T		6							
VSP-C30-15Q*-4T		4	78		42.9	25	15	3.3 to 10.4	53
VSP-C30-15Q*-6T		6							
VSP-C30-20Q*-4T		4	94		49.9	34	20	1.1 to 4.8	60
VSP-C30-20Q*-6T		6							

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

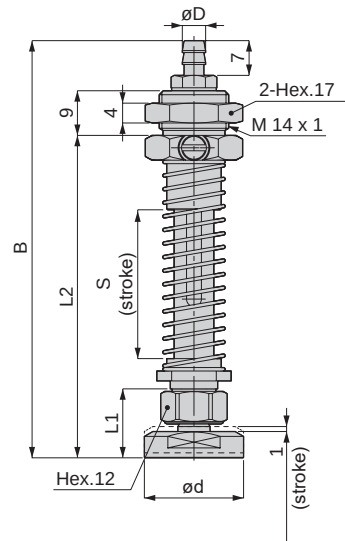
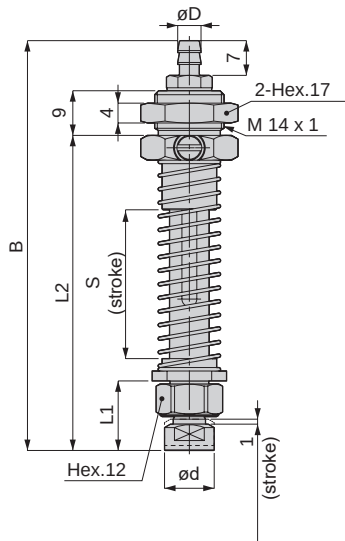
Suction mark
prevention

VSP-*Q* Series

Dimensions (buffer, vacuum outlet top VSP-C, barbed fitting without spring cover)

●VSP-C10-□Q*-4TC/6TC

●VSP-C20, 30-□Q*-4TC/6TC



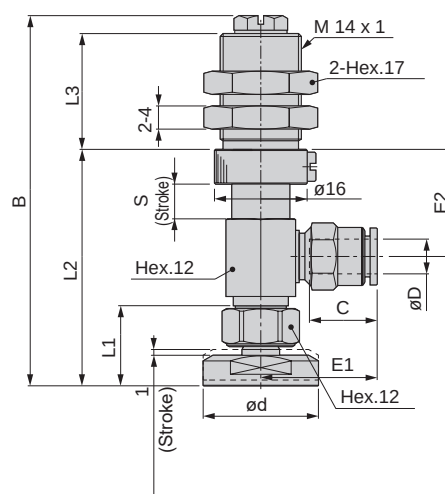
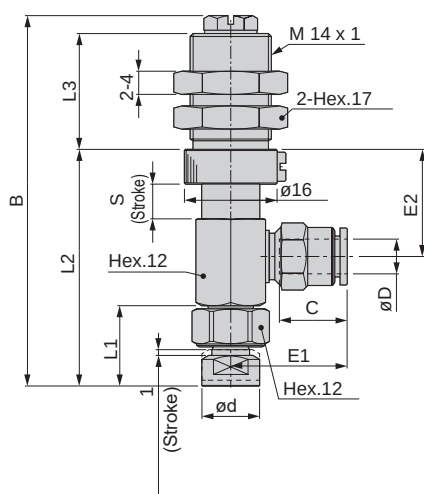
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Stroke S	Spring force (N)	Weight (g)
VSP-C10-20Q*-4TC	10	4	69.6	14	50.5	20	1.5 to 4.9	47
VSP-C10-20Q*-6TC		6						
VSP-C10-30Q*-4TC		4	82.6		63.5	30	1.1 to 4.8	53
VSP-C10-30Q*-6TC		6						
VSP-C10-40Q*-4TC		4	95.6		76.5	40	1.0 to 4.5	58
VSP-C10-40Q*-6TC		6						
VSP-C10-50Q*-4TC		4	108.6		89.5	50	0.9 to 4.5	63
VSP-C10-50Q*-6TC		6						
VSP-C20-20Q*-4TC	20	4	71	13.9	51.9	20	1.5 to 4.9	52
VSP-C20-20Q*-6TC		6						
VSP-C20-30Q*-4TC		4	84		64.9	30	1.1 to 4.8	57
VSP-C20-30Q*-6TC		6						
VSP-C20-40Q*-4TC		4	97		77.9	40	1.0 to 4.5	62
VSP-C20-40Q*-6TC		6						
VSP-C20-50Q*-4TC		4	110		90.9	50	0.9 to 4.5	67
VSP-C20-50Q*-6TC		6						
VSP-C30-20Q*-4TC	30	4	71	13.9	51.9	20	1.5 to 4.9	56
VSP-C30-20Q*-6TC		6						
VSP-C30-30Q*-4TC		4	84		64.9	30	1.1 to 4.8	61
VSP-C30-30Q*-6TC		6						
VSP-C30-40Q*-4TC		4	97		77.9	40	1.0 to 4.5	66
VSP-C30-40Q*-6TC		6						
VSP-C30-50Q*-4TC		4	110		90.9	50	0.9 to 4.5	71
VSP-C30-50Q*-6TC		6						

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting)

- VSP-D10Q*-4/6
- VSP-D10-□Q*-4/6

- VSP-D20, 30Q*-4/6
- VSP-D20, 30-□Q*-4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10Q*-4	10	4	64.1	14	41	20	11.2	18.8	18.5	6	4.0 to 7.1	52
VSP-D10Q*-6		6					11.9	20.1				53
VSP-D10-10Q*-4		4	69.1		46	11.2	18.8	25	10	2.0 to 5.2	55	
VSP-D10-10Q*-6		6				11.9	20.1				56	
VSP-D10-15Q*-4		4	79.1		51	11.2	18.8	30	15	2.0 to 5.9	61	
VSP-D10-15Q*-6		6				11.9	20.1				62	
VSP-D10-20Q*-4		4	95.1		58	34	11.2	18.8	37	20	1.1 to 4.8	71
VSP-D10-20Q*-6		6					11.9	20.1				72
VSP-D20Q*-4	20	4	64	13.9	40.9	20	11.2	18.8	18.5	6	7.0 to 12.6	55
VSP-D20Q*-6		6					11.9	20.1				56
VSP-D20-10Q*-4		4	70		46.9	11.2	18.8	24.5	10	3.3 to 10.0	58	
VSP-D20-10Q*-6		6				11.9	20.1				59	
VSP-D20-15Q*-4		4	80		51.9	25	11.2	18.8	29.5	15	3.3 to 10.4	65
VSP-D20-15Q*-6		6					11.9	20.1				66
VSP-D20-20Q*-4		4	96		58.9	34	11.2	18.8	36.5	20	2.0 to 8.7	75
VSP-D20-20Q*-6		6					11.9	20.1				76
VSP-D30Q*-4	30	4	64	13.9	40.9	20	11.2	18.8	18.5	6	7.0 to 12.6	59
VSP-D30Q*-6		6					11.9	20.1				60
VSP-D30-10Q*-4		4	70		46.9	11.2	18.8	24.5	10	3.3 to 10.0	62	
VSP-D30-10Q*-6		6				11.9	20.1				63	
VSP-D30-15Q*-4		4	80		51.9	25	11.2	18.8	29.5	15	3.3 to 10.4	69
VSP-D30-15Q*-6		6					11.9	20.1				70
VSP-D30-20Q*-4		4	96		58.9	34	11.2	18.8	36.5	20	2.0 to 8.7	79
VSP-D30-20Q*-6		6					11.9	20.1				80

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

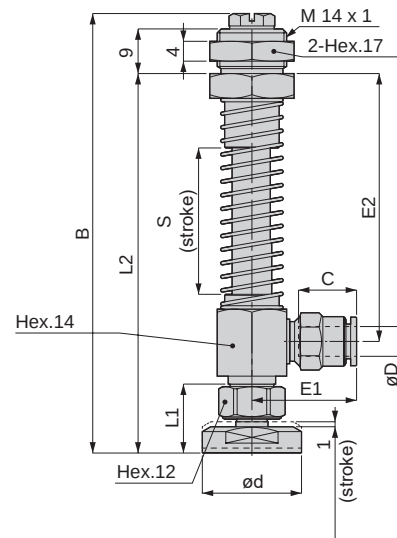
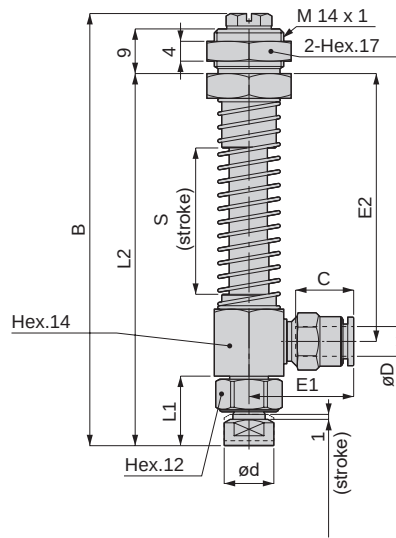
Flat

Suction mark
prevention

Dimensions (buffer, vacuum outlet side VSP-D, push-in fitting without spring cover)

●VSP-D10-□Q*-4C/6C

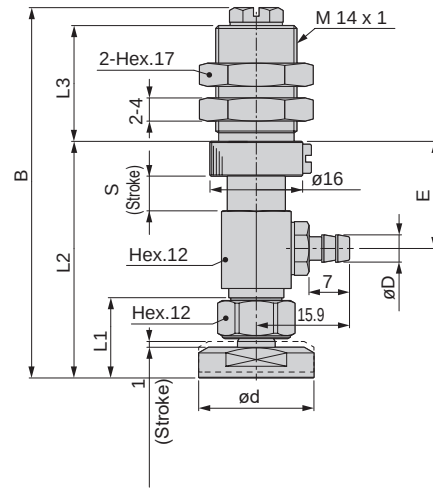
●VSP-D20, 30-□Q*-4C/6C



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-D10-20Q*-4C	10	4	74.1	14	62	11.2	19.8	40.5	20	1.5 to 4.9	70
VSP-D10-20Q*-6C		6				11.9	21.1				71
VSP-D10-30Q*-4C		4	87.1		75	11.2	19.8	53.5	30	1.1 to 4.8	77
VSP-D10-30Q*-6C		6				11.9	21.1				78
VSP-D10-40Q*-4C		4	100.1		88	11.2	19.8	66.5	40	1.0 to 4.5	83
VSP-D10-40Q*-6C		6				11.9	21.1				84
VSP-D10-50Q*-4C		4	113.1		101	11.2	19.8	79.5	50	0.9 to 4.5	90
VSP-D10-50Q*-6C		6				11.9	21.1				91
VSP-D20-20Q*-4C	20	4	75.5	13.9	63.4	11.2	19.8	41	20	1.5 to 4.9	73
VSP-D20-20Q*-6C		6				11.9	21.1				74
VSP-D20-30Q*-4C		4	88.5		76.4	11.2	19.8	54	30	1.1 to 4.8	80
VSP-D20-30Q*-6C		6				11.9	21.1				81
VSP-D20-40Q*-4C		4	101.5		89.4	11.2	19.8	67	40	1.0 to 4.5	86
VSP-D20-40Q*-6C		6				11.9	21.1				87
VSP-D20-50Q*-4C		4	114.5		102.4	11.2	19.8	80	50	0.9 to 4.5	93
VSP-D20-50Q*-6C		6				11.9	21.1				94
VSP-D30-20Q*-4C	30	4	75.5	13.9	63.4	11.2	19.8	41	20	1.5 to 4.9	77
VSP-D30-20Q*-6C		6				11.9	21.1				78
VSP-D30-30Q*-4C		4	88.5		76.4	11.2	19.8	54	30	1.1 to 4.8	84
VSP-D30-30Q*-6C		6				11.9	21.1				85
VSP-D30-40Q*-4C		4	101.5		89.4	11.2	19.8	67	40	1.0 to 4.5	90
VSP-D30-40Q*-6C		6				11.9	21.1				91
VSP-D30-50Q*-4C		4	114.5		102.4	11.2	19.8	80	50	0.9 to 4.5	97
VSP-D30-50Q*-6C		6				11.9	21.1				98

●VSP-D20, 30Q*-4T/6T
●VSP-D20, 30-□Q*-4T/-6T

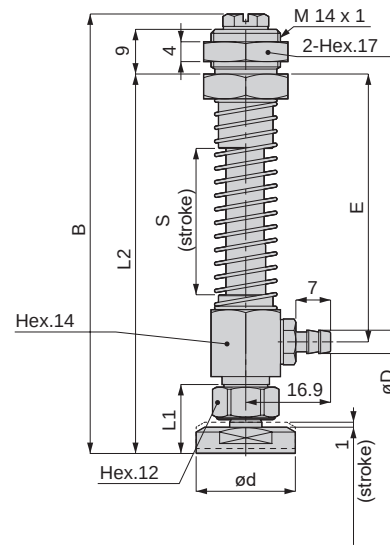
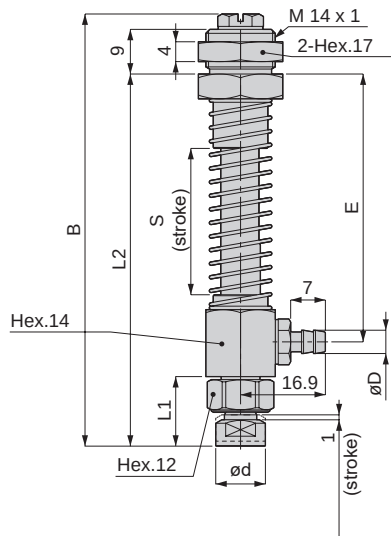


Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	E	Stroke S	Spring force (N)	Weight (g)
VSP-D10Q*-4T	10	2.5	64.1	14	41	20	18.5	6	4.0 to 7.1	51
VSP-D10Q*-6T		4								
VSP-D10-10Q*-4T		2.5	69.1		46	25	10	2.0 to 5.2	56	
VSP-D10-10Q*-6T		4								
VSP-D10-15Q*-4T		2.5	79.1		51	25	30	15	2.0 to 5.9	62
VSP-D10-15Q*-6T		4								
VSP-D10-20Q*-4T		2.5	95.1		58	34	37	20	1.1 to 4.8	72
VSP-D10-20Q*-6T		4								
VSP-D20Q*-4T	20	2.5	64	13.9	40.9	20	18.5	6	7.0 to 12.6	53
VSP-D20Q*-6T		4								
VSP-D20-10Q*-4T		2.5	70		46.9	24.5	10	3.3 to 10.0	59	
VSP-D20-10Q*-6T		4								
VSP-D20-15Q*-4T		2.5	80		51.9	25	29.5	15	3.3 to 10.4	66
VSP-D20-15Q*-6T		4								
VSP-D20-20Q*-4T		2.5	96		58.9	34	36.5	20	2.0 to 8.7	76
VSP-D20-20Q*-6T		4								
VSP-D30Q*-4T	30	2.5	64	13.9	40.9	20	18.5	6	7.0 to 12.6	57
VSP-D30Q*-6T		4								
VSP-D30-10Q*-4T		2.5	70		46.9	24.5	10	3.3 to 10.0	63	
VSP-D30-10Q*-6T		4								
VSP-D30-15Q*-4T		2.5	80		51.9	25	29.5	15	3.3 to 10.4	70
VSP-D30-15Q*-6T		4								
VSP-D30-20Q*-4T		2.5	96		58.9	34	36.5	20	2.0 to 8.7	80
VSP-D30-20Q*-6T		4								

Dimensions (buffer, vacuum outlet side VSP-D, barbed fitting without spring cover)

●VSP-D10-□Q*-4TC/6TC

●VSP-D20, 30-□Q*-4TC/6TC



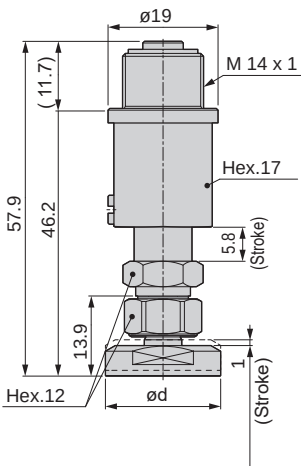
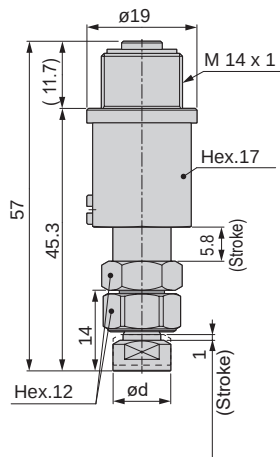
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)	
VSP-D10-20Q*-4TC	10	2.5	74.1	14	62	40.5	20	1.5 to 4.9	69	
VSP-D10-20Q*-6TC		4								
VSP-D10-30Q*-4TC		2.5	87.1		75	53.5	30	1.1 to 4.8		76
VSP-D10-30Q*-6TC		4								
VSP-D10-40Q*-4TC		2.5	100.1		88	66.5	40	1.0 to 4.5		82
VSP-D10-40Q*-6TC		4								
VSP-D10-50Q*-4TC		2.5	113.1		101	79.5	50	0.9 to 4.5		89
VSP-D10-50Q*-6TC		4								
VSP-D20-20Q*-4TC	20	4	75.5	13.9	63.4	41	20	1.5 to 4.9	72	
VSP-D20-20Q*-6TC		6								
VSP-D20-30Q*-4TC		4	88.5		76.4	54	30	1.1 to 4.8		79
VSP-D20-30Q*-6TC		6								
VSP-D20-40Q*-4TC		4	101.5		89.4	67	40	1.0 to 4.5		85
VSP-D20-40Q*-6TC		6								
VSP-D20-50Q*-4TC		4	114.5		102.4	80	50	0.9 to 4.5		92
VSP-D20-50Q*-6TC		6								
VSP-D30-20Q*-4TC	30	4	75.5	13.9	63.4	41	20	1.5 to 4.9	76	
VSP-D30-20Q*-6TC		6								
VSP-D30-30Q*-4TC		4	88.5		76.4	54	30	1.1 to 4.8		83
VSP-D30-30Q*-6TC		6								
VSP-D30-40Q*-4TC		4	101.5		89.4	67	40	1.0 to 4.5		89
VSP-D30-40Q*-6TC		6								
VSP-D30-50Q*-4TC		4	114.5		102.4	80	50	0.9 to 4.5		96
VSP-D30-50Q*-6TC		6								

Dimensions (direct mounting fixed VSP-F male thread)

●VSP-F10Q*

●VSP-F20, 30Q*



Unit: mm

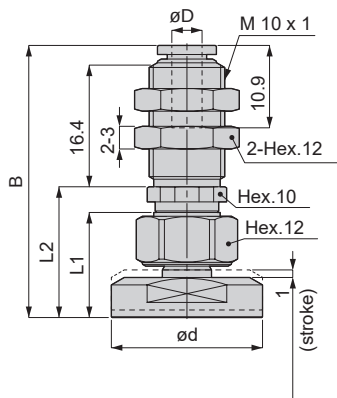
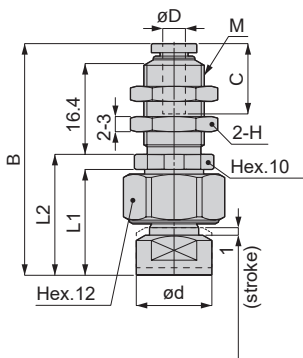
Model No.	Pad diameter ød	Spring force (N)	Weight (g)
VSP-F10Q*	10	7.9 to 15	61
VSP-F20Q*	20	7.9 to 15	63
VSP-F30Q*	30	7.9 to 15	67

- Suction pad
- General/Deep/
Compact
- Sponge
- BelloWS
- Multi-stage
bellows
- Oval
- Soft
- Soft
bellows
- Anti-slip
- Thin object
- Flat
- Suction mark
prevention

Dimensions (compact fixed, vacuum outlet top VSP-MA, push-in fitting)

●VSP-MA10Q*-4

●VSP-MA20, 30Q*-4

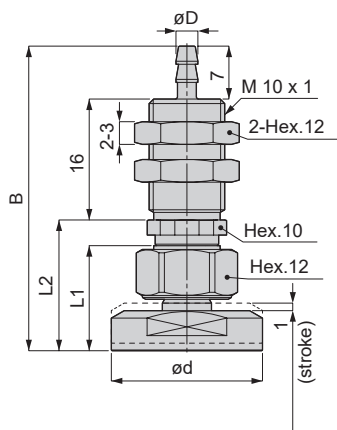
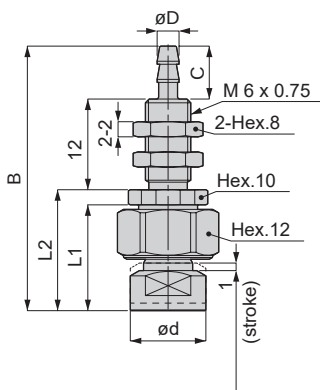


Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA10Q*-4	10	4	35	14	16	12
VSP-MA20Q*-4	20	4	36.5	13.9	17.5	16
VSP-MA30Q*-4	30	4	36.5	13.9	17.5	20

Dimensions (compact fixed, vacuum outlet side VSP-MA, barbed fitting)

●VSP-MA10Q*-4T

●VSP-MA20, 30Q*-4T/6T

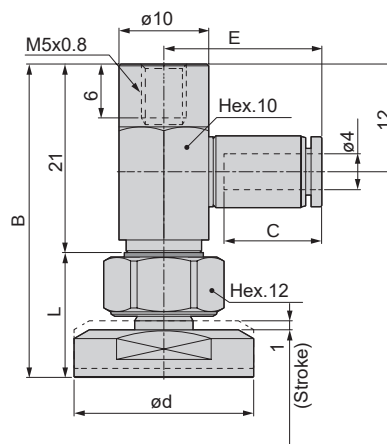
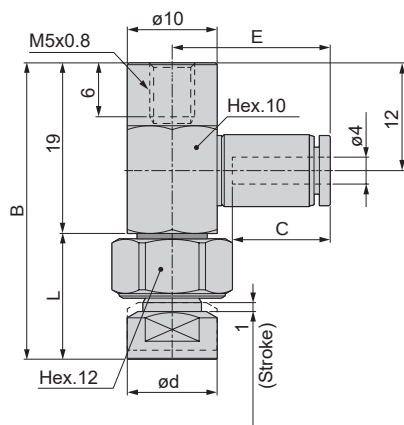


Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Weight (g)
VSP-MA10Q*-4T	10	2.5	35	14	16	9.1
VSP-MA20Q*-4T	20	2.5	40.5	13.9	17.5	16
VSP-MA20Q*-6T		4				
VSP-MA30Q*-4T	30	2.5	40.5	13.9	17.5	20
VSP-MA30Q*-6T		4				

Dimensions (compact fixed, vacuum outlet side VSP-MB, push-in fitting)

●VSP-MB10Q*-2/4/6

●VSP-MB20, 30Q*-2/4/6



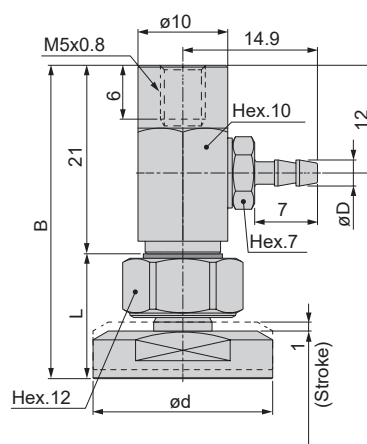
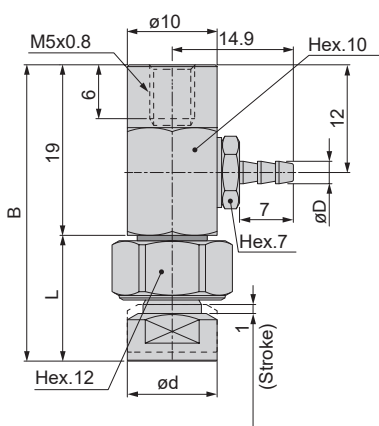
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-MB10Q*-2	10	1.8	33	14	8.4	13.7	13
VSP-MB10Q*-4		4			11.2	17.8	14
VSP-MB10Q*-6		6			11.9	19.6	15
VSP-MB20Q*-2	20	1.8	35.1	13.9	8.4	13.7	16
VSP-MB20Q*-4		4			11.2	17.8	17
VSP-MB20Q*-6		6			11.9	19.6	18
VSP-MB30Q*-2	30	1.8	35.1	13.9	8.4	13.7	20
VSP-MB30Q*-4		4			11.2	17.8	21
VSP-MB30Q*-6		6			11.9	19.6	22

Dimensions (compact fixed, vacuum outlet side VSP-MB, barbed fitting)

●VSP-MB10Q*-4T/6T

●VSP-MB20, 30Q*-4T/6T



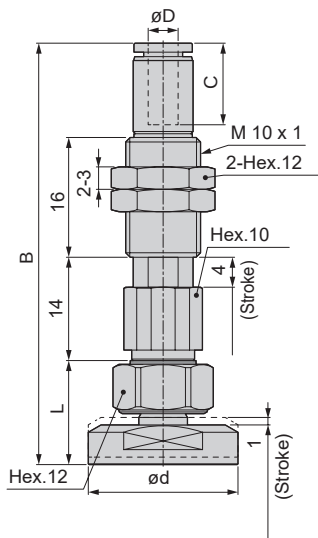
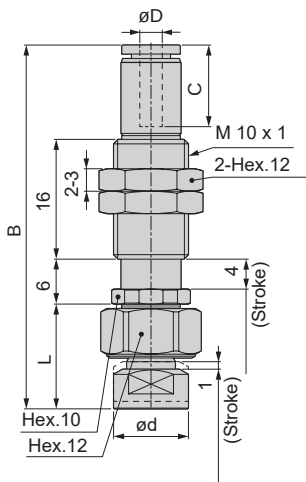
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Weight (g)
VSP-MB10Q*-4T	10	2.5	33	14	13
VSP-MB10Q*-6T		4			
VSP-MB20Q*-4T	20	2.5	35.1	13.9	16
VSP-MB20Q*-6T		4			
VSP-MB30Q*-4T	30	2.5	35.1	13.9	20
VSP-MB30Q*-6T		4			

Dimensions (compact buffer, vacuum outlet top VSP-MC, push-in fitting)

●VSP-MC10Q*-2/4

●VSP-MC20, 30Q*-2/4

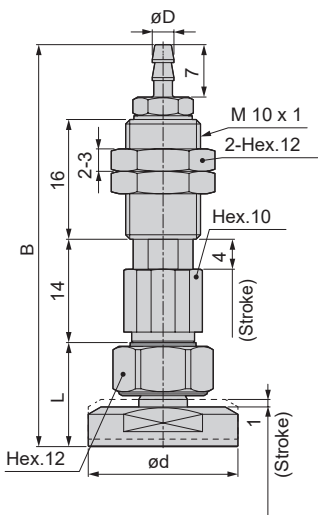
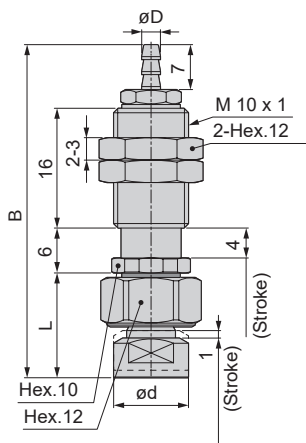


Unit: mm							
Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	Spring force (N)	Weight (g)
VSP-MC10Q*-2	10	1.8	44.9	14	8.4	1 to 1.3	21
VSP-MC10Q*-4		4	49		11.2		22
VSP-MC20Q*-2	20	1.8	52.8	13.9	8.4	1 to 1.3	27
VSP-MC20Q*-4		4	56.9		11.2		28
VSP-MC30Q*-2	30	1.8	52.8	13.9	8.4	1 to 1.3	31
VSP-MC30Q*-4		4	56.9		11.2		32

Dimensions (compact buffer, vacuum outlet top VSP-MC, barbed fitting)

●VSP-MC10Q*-4T/6T

●VSP-MC20, 30Q*-4T/6T

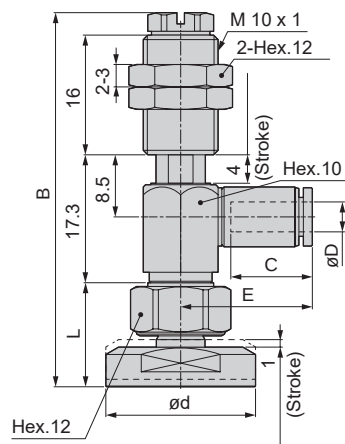
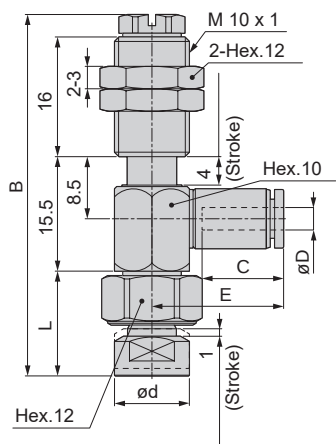


Unit: mm						
Model No.	Pad diameter ød	Bore size øD	B	L1	Spring force (N)	Weight (g)
VSP-MC10Q*-4T	10	2.5	46.1	14	0.5 to 0.6	20
VSP-MC10Q*-6T		4				
VSP-MC20Q*-4T	20	2.5	53.8	13.9	1 to 1.3	27
VSP-MC20Q*-6T		4				
VSP-MC30Q*-4T	30	2.5	53.8	13.9	1 to 1.3	31
VSP-MC30Q*-6T		4				

Dimensions (compact buffer, vacuum outlet side VSP-MD, push-in fitting)

●VSP-MD10Q*-2/4/6

●VSP-MD20, 30Q*-2/4/6



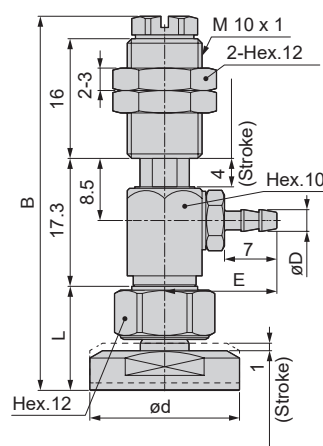
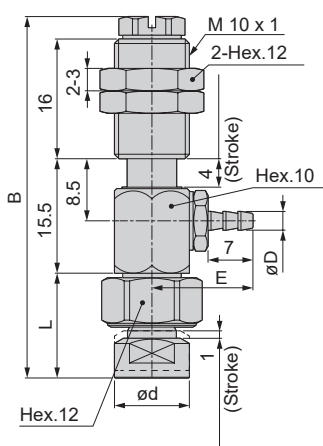
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Spring force (N)	Weight (g)
VSP-MD10Q*-2	10	1.8	48.5	14	8.4	13.6	1 to 1.3	28
VSP-MD10Q*-4		4			11.2	17.7		29
VSP-MD10Q*-6		6			11.9	19.5		30
VSP-MD20Q*-2	20	1.8	50.2	13.9	8.4	13.6	1 to 1.3	31
VSP-MD20Q*-4		4			11.2	17.7		32
VSP-MD20Q*-6		6			11.9	19.5		33
VSP-MD30Q*-2	30	1.8	50.2	13.9	8.4	13.6	1 to 1.3	35
VSP-MD30Q*-4		4			11.2	17.7		36
VSP-MD30Q*-6		6			11.9	19.5		37

Dimensions (compact buffer, vacuum outlet side VSP-MD, barbed fitting)

●VSP-MD10Q*-4T/6T

●VSP-MD20, 30Q*-4T/6T

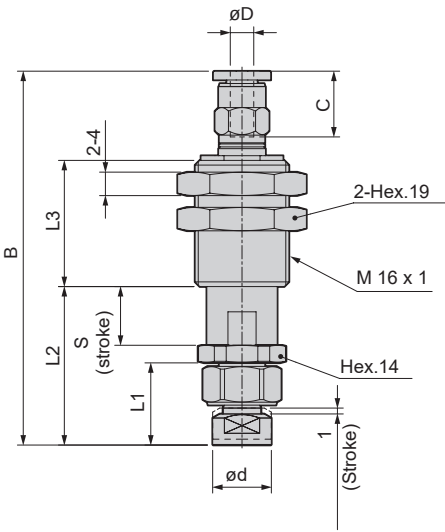


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Spring force (N)	Weight (g)
VSP-MD10Q*-4T	10	2.5	48.5	14	14.8	1 to 1.3	28
VSP-MD10Q*-6T		4					
VSP-MD20Q*-4T	20	2.5	50.2	13.9	14.8	1 to 1.3	30
VSP-MD20Q*-6T		4					
VSP-MD30Q*-4T	30	2.5	50.2	13.9	14.8	1 to 1.3	34
VSP-MD30Q*-6T		4					

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC10-□Q*-2/4/6

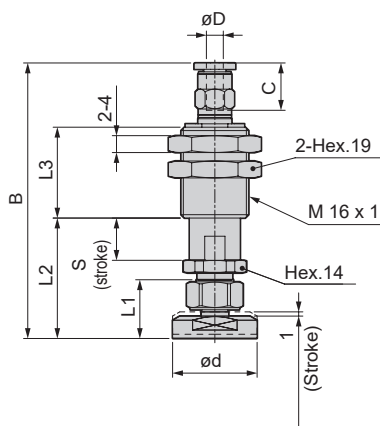


Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC10-10Q*-2	10	1.8	59.6	14	27	21.5	8.4	10	1.0 to 2.4	28
VSP-HC10-10Q*-4		4	63.7				11.2			29
VSP-HC10-10Q*-6		6	65				11.9			30
VSP-HC10-15Q*-2		1.8	69.6		32	26.5	8.4	15	1.0 to 2.7	30
VSP-HC10-15Q*-4		4	73.7				11.2			31
VSP-HC10-15Q*-6		6	75				11.9			32
VSP-HC10-20Q*-2		1.8	79.6		37	31.5	8.4	20	1.0 to 3.0	32
VSP-HC10-20Q*-4		4	83.7				11.2			33
VSP-HC10-20Q*-6		6	85				11.9			34
VSP-HC10-25Q*-2		1.8	90.1		42	37	8.4	25		34
VSP-HC10-25Q*-4		4	94.2				11.2			35
VSP-HC10-25Q*-6		6	95.5				11.9			36
VSP-HC10-30Q*-2		1.8	101.1		47	43	8.4	30		36
VSP-HC10-30Q*-4		4	105.2				11.2			37
VSP-HC10-30Q*-6		6	106.5				11.9			38
VSP-HC10-40Q*-2		1.8	123.1		57	55	8.4	40		40
VSP-HC10-40Q*-4		4	127.2				11.2			41
VSP-HC10-40Q*-6		6	128.5				11.9			42
VSP-HC10-50Q*-2		1.8	144.6		67	66.5	8.4	50	1.0 to 3.1	45
VSP-HC10-50Q*-4		4	148.7				11.2			46
VSP-HC10-50Q*-6		6	150				11.9			47

Dimensions (low back buffer, vacuum outlet top VSP-HC, push-in fitting)

●VSP-HC20, 30-□Q*-2/4/6



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-HC20-10Q*-2	20	1.8	61.1	13.9	28.5	21.5	8.4	10	1.0 to 2.4	37
VSP-HC20-10Q*-4		4	65.2				11.2			38
VSP-HC20-10Q*-6		6	66.5				11.9			39
VSP-HC20-15Q*-2		1.8	71.1		33.5	26.5	8.4	15	1.0 to 2.7	39
VSP-HC20-15Q*-4		4	75.2				11.2			40
VSP-HC20-15Q*-6		6	76.5				11.9			41
VSP-HC20-20Q*-2		1.8	81.1		38.5	31.5	8.4	20	1.0 to 3.0	41
VSP-HC20-20Q*-4		4	85.2				11.2			42
VSP-HC20-20Q*-6		6	86.5				11.9			43
VSP-HC20-25Q*-2		1.8	91.6		43.5	37	8.4	25		43
VSP-HC20-25Q*-4		4	95.7				11.2			44
VSP-HC20-25Q*-6		6	97				11.9			45
VSP-HC20-30Q*-2		1.8	102.6		48.5	43	8.4	30		45
VSP-HC20-30Q*-4		4	106.7				11.2			46
VSP-HC20-30Q*-6		6	108				11.9			47
VSP-HC20-40Q*-2		1.8	124.6		58.5	55	8.4	40		49
VSP-HC20-40Q*-4		4	128.7				11.2			50
VSP-HC20-40Q*-6		6	130				11.9			51
VSP-HC20-50Q*-2		1.8	146.1		68.5	66.5	8.4	50	1.0 to 3.1	53
VSP-HC20-50Q*-4		4	150.2				11.2			54
VSP-HC20-50Q*-6		6	151.5				11.9			55
VSP-HC30-10Q*-2	30	1.8	61.1	13.9	28.5	21.5	8.4	10	1.0 to 2.4	47
VSP-HC30-10Q*-4		4	65.2				11.2			48
VSP-HC30-10Q*-6		6	66.5				11.9			49
VSP-HC30-15Q*-2		1.8	71.1		33.5	26.5	8.4	15	1.0 to 2.7	49
VSP-HC30-15Q*-4		4	75.2				11.2			50
VSP-HC30-15Q*-6		6	76.5				11.9			51
VSP-HC30-20Q*-2		1.8	81.1		38.5	31.5	8.4	20	1.0 to 3.0	51
VSP-HC30-20Q*-4		4	85.2				11.2			52
VSP-HC30-20Q*-6		6	86.5				11.9			53
VSP-HC30-25Q*-2		1.8	91.6		43.5	37	8.4	25		53
VSP-HC30-25Q*-4		4	95.7				11.2			54
VSP-HC30-25Q*-6		6	97				11.9			55
VSP-HC30-30Q*-2		1.8	102.6		48.5	43	8.4	30		55
VSP-HC30-30Q*-4		4	106.7				11.2			56
VSP-HC30-30Q*-6		6	108				11.9			57
VSP-HC30-40Q*-2		1.8	124.6		58.5	55	8.4	40		59
VSP-HC30-40Q*-4		4	128.7				11.2			60
VSP-HC30-40Q*-6		6	130				11.9			61
VSP-HC30-50Q*-2		1.8	146.1		68.5	66.5	8.4	50	1.0 to 3.1	63
VSP-HC30-50Q*-4		4	150.2				11.2			64
VSP-HC30-50Q*-6		6	151.5				11.9			65

Suction pad

General/Deep/
Compact

Sponge

Bel lows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

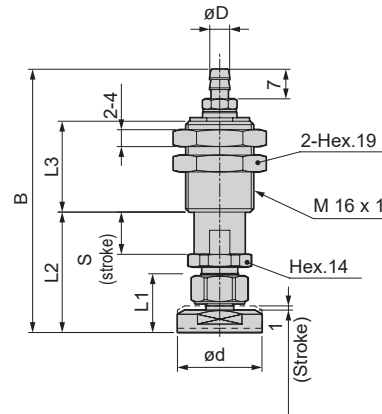
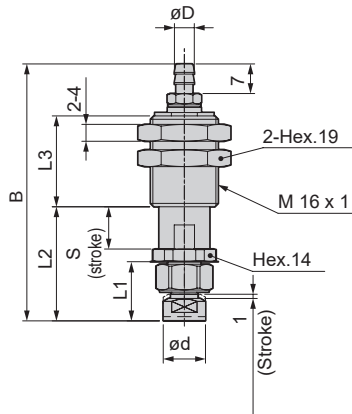
Flat

Suction mark
prevention

Dimensions (low back buffer, vacuum outlet top VSP-HC, barbed fitting)

●VSP-HC10-□Q*-4T/6T

●VSP-HC20, 30-□Q*-4T/6T



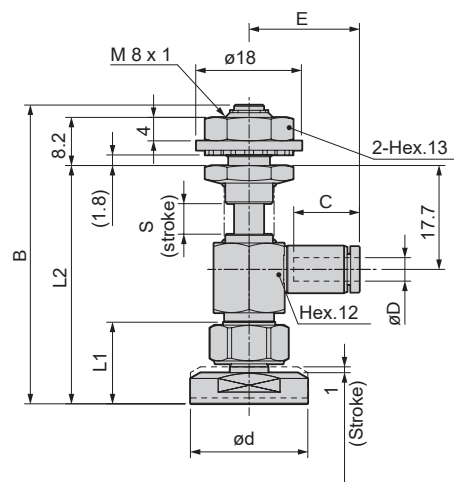
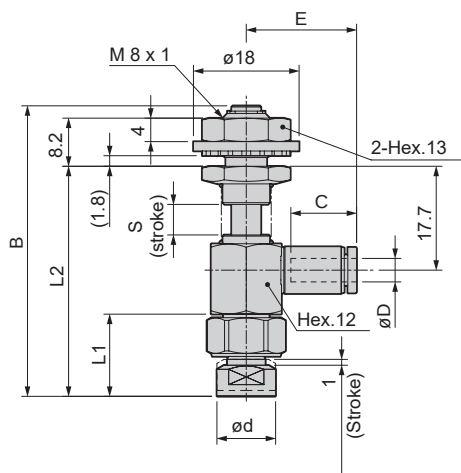
Unit: mm

	Model No.	Pad diameter øD	Bore size øD	B	L1	L2	L3	Stroke S	Spring force (N)	Weight (g)	
General/Deep/ Compact	VSP-HC10-10Q*-4T	10	2.5	60.8	14	27	21.5	10	1.0 to 2.4	27	
	VSP-HC10-10Q*-6T		4								
	VSP-HC10-15Q*-4T		2.5	70.8		32	26.5	15	1.0 to 2.7	29	
	VSP-HC10-15Q*-6T		4								
Sponge	VSP-HC10-20Q*-4T		2.5	80.8		37	31.5	20	1.0 to 3.0	31	
	VSP-HC10-20Q*-6T		4								
Bellows	VSP-HC10-25Q*-4T		2.5	91.3		42	37	25		34	
	VSP-HC10-25Q*-6T		4								
	VSP-HC10-30Q*-4T		2.5	102.3		47	43	30		36	
	VSP-HC10-30Q*-6T		4								
Multi-stage bellows	VSP-HC10-40Q*-4T		2.5	124.3		57	55	40	40		
	VSP-HC10-40Q*-6T		4								
	VSP-HC10-50Q*-4T		2.5	145.8		67	66.5	50	1.0 to 3.1	44	
	VSP-HC10-50Q*-6T		4								
Oval	VSP-HC20-10Q*-4T	20	2.5	62.3	13.9	28.5	21.5	10	1.0 to 2.4	36	
	VSP-HC20-10Q*-6T		4								
Soft	VSP-HC20-15Q*-4T		2.5	72.3		33.5	26.5	15	1.0 to 2.7	38	
	VSP-HC20-15Q*-6T		4								
	Soft bellows		VSP-HC20-20Q*-4T	2.5		82.3	38.5	31.5	20	1.0 to 3.0	48
			VSP-HC20-20Q*-6T	4							
VSP-HC20-25Q*-4T			2.5	92.8		43.5	37	25	51		
VSP-HC20-25Q*-6T			4								
Anti-slip	VSP-HC20-30Q*-4T		2.5	103.8		48.5	43	30	53		
	VSP-HC20-30Q*-6T		4								
	VSP-HC20-40Q*-4T		2.5	125.8		58.5	55	40	57		
	VSP-HC20-40Q*-6T		4								
	VSP-HC20-50Q*-4T		2.5	147.3		68.5	66.5	50	1.0 to 3.1	61	
	VSP-HC20-50Q*-6T		4								
Thin object	VSP-HC30-10Q*-4T	30	2.5	62.3	13.9	28.5	21.5	10	1.0 to 2.4	46	
	VSP-HC30-10Q*-6T		4								
Flat	VSP-HC30-15Q*-4T		2.5	72.3		33.5	26.5	15	1.0 to 2.7	48	
	VSP-HC30-15Q*-6T		4								
	VSP-HC30-20Q*-4T		2.5	82.3		38.5	31.5	20	1.0 to 3.0	58	
	VSP-HC30-20Q*-6T		4								
Suction mark prevention	VSP-HC30-25Q*-4T		2.5	92.8		43.5	37	25		61	
	VSP-HC30-25Q*-6T		4								
	VSP-HC30-30Q*-4T		2.5	103.8		48.5	43	30		63	
	VSP-HC30-30Q*-6T		4								
	VSP-HC30-40Q*-4T		2.5	125.8		58.5	55	40	67		
	VSP-HC30-40Q*-6T		4								
	VSP-HC30-50Q*-4T		2.5	147.3		68.5	66.5	50	1.0 to 3.1	71	
	VSP-HC30-50Q*-6T		4								

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, push-in fitting)

●VSP-HD10Q*-2/4/6

●VSP-HD20, 30Q*-2/4/6



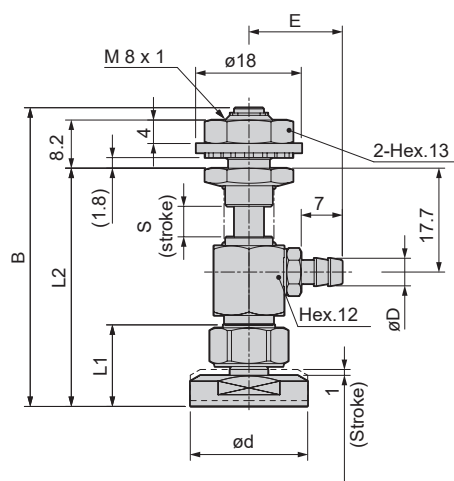
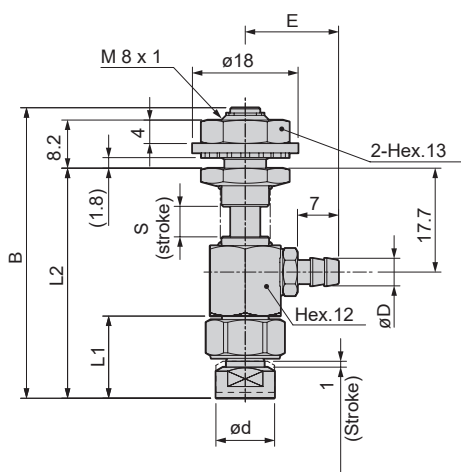
Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10Q*-2	10	1.8	49.5	14	39.2	8.4	14.7	5.2	1.6 to 2.9	36
VSP-HD10Q*-4		4				11.2	18.8			37
VSP-HD10Q*-6		6				11.9	20.6			38
VSP-HD20Q*-2	20	1.8	50.9	13.9	40.6	8.4	14.7	5.2	1.6 to 2.9	47
VSP-HD20Q*-4		4				11.2	18.8			48
VSP-HD20Q*-6		6				11.9	20.6			49
VSP-HD30Q*-2	30	1.8	50.9	13.9	40.6	8.4	14.7	5.2	1.6 to 2.9	56
VSP-HD30Q*-4		4				11.2	18.8			57
VSP-HD30Q*-6		6				11.9	20.6			58

Dimensions (lightweight buffer, vacuum outlet side VSP-HD, barbed fitting)

●VSP-HD10Q*-4T/6T

●VSP-HD20, 30Q*-4T/6T



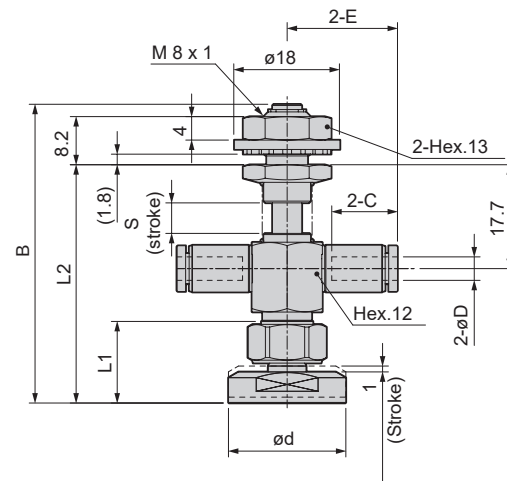
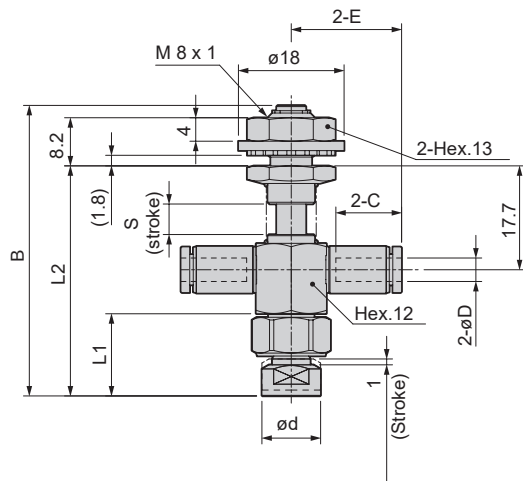
Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HD10Q*-4T	10	2.5	49.5	14	39.2	15.9	5.2	1.6 to 2.9	37
VSP-HD10Q*-6T		4							
VSP-HD20Q*-4T	20	2.5	50.9	13.9	40.6	15.9	5.2	1.6 to 2.9	46
VSP-HD20Q*-6T		4							
VSP-HD30Q*-4T	30	2.5	50.9	13.9	40.6	15.9	5.2	1.6 to 2.9	56
VSP-HD30Q*-6T		4							

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, push-in fitting)

●VSP-HDW10Q*-2/4/6

●VSP-HDW20, 30Q*-2/4/6



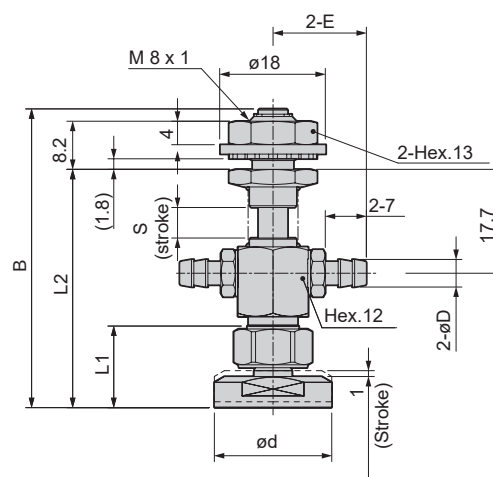
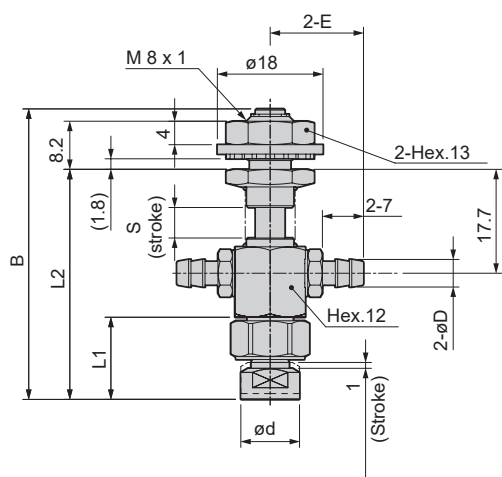
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	Tube end C	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10Q*-2	10	1.8	49.5	14	39.2	8.4	14.7	5.2	1.6 to 2.9	39
VSP-HDW10Q*-4		4				11.2	18.8			41
VSP-HDW10Q*-6		6				11.9	20.6			43
VSP-HDW20Q*-2	20	1.8	50.9	13.9	40.6	8.4	14.7	5.2	1.6 to 2.9	48
VSP-HDW20Q*-4		4				11.2	18.8			50
VSP-HDW20Q*-6		6				11.9	20.6			52
VSP-HDW30Q*-2	30	1.8	50.9	13.9	40.6	8.4	14.7	5.2	1.6 to 2.9	58
VSP-HDW30Q*-4		4				11.2	18.8			60
VSP-HDW30Q*-6		6				11.9	20.6			62

Dimensions (lightweight buffer, vacuum outlet on both sides VSP-HDW, barbed fitting)

●VSP-HDW10Q*-4T/6T

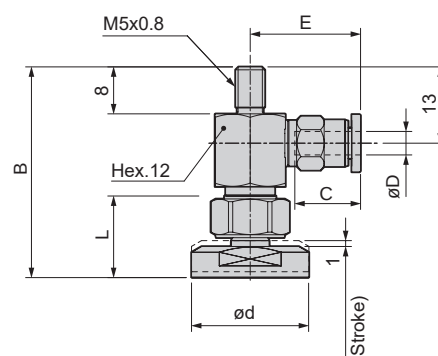
●VSP-HDW20, 30Q*-4T/6T



Unit: mm

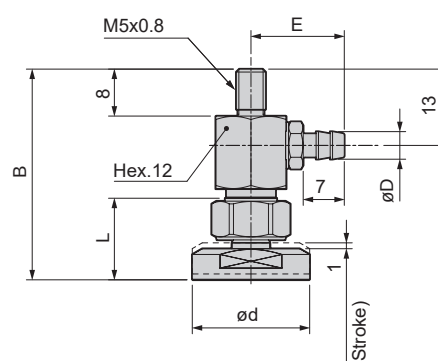
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	E	Stroke S	Spring force (N)	Weight (g)
VSP-HDW10Q*-4T	10	2.5	49.5	14	39.2	15.9	5.2	1.6 to 2.9	38
VSP-HDW10Q*-6T		4							
VSP-HDW20Q*-4T	20	2.5	50.9	13.9	40.6	15.9	5.2	1.6 to 2.9	47
VSP-HDW20Q*-6T		4							
VSP-HDW30Q*-4T	30	2.5	50.9	13.9	40.6	15.9	5.2	1.6 to 2.9	57
VSP-HDW30Q*-6T		4							

●VSP-HE20, 30Q*-2/4/6



Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HE10Q*-2	10	1.8	34.5	14	8.4	14.7	23
VSP-HE10Q*-4		4			11.2	18.8	24
VSP-HE10Q*-6		6			11.9	20.6	25
VSP-HE20Q*-2	20	1.8	35.9	13.9	8.4	14.7	31
VSP-HE20Q*-4		4			11.2	18.8	32
VSP-HE20Q*-6		6			11.9	20.6	33
VSP-HE30Q*-2	30	1.8	35.9	13.9	8.4	14.7	41
VSP-HE30Q*-4		4			11.2	18.8	42
VSP-HE30Q*-6		6			11.9	20.6	43

●VSP-HE20, 30Q*-4T/6T

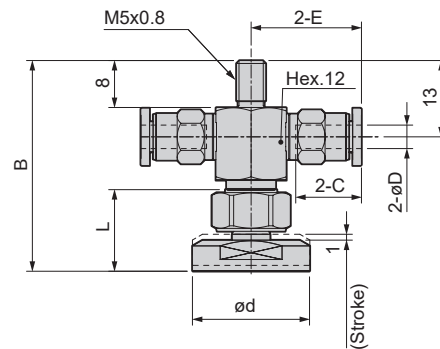
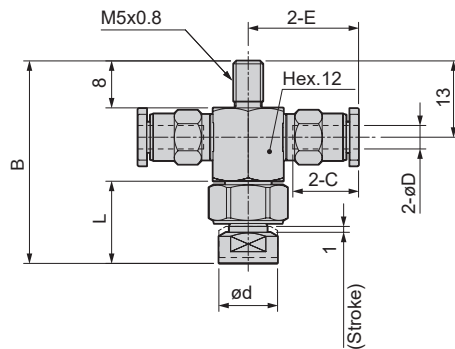


Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HE10Q*-4T	10	2.5	34.5	14	15.9	23
VSP-HE10Q*-6T		4				
VSP-HE20Q*-4T	20	2.5	35.9	13.9	15.9	31
VSP-HE20Q*-6T		4				
VSP-HE30Q*-4T	30	2.5	35.9	13.9	15.9	41
VSP-HE30Q*-6T		4				

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, push-in fitting)

●VSP-HEW10Q*-2/4/6

●VSP-HEW20, 30Q*-2/4/6



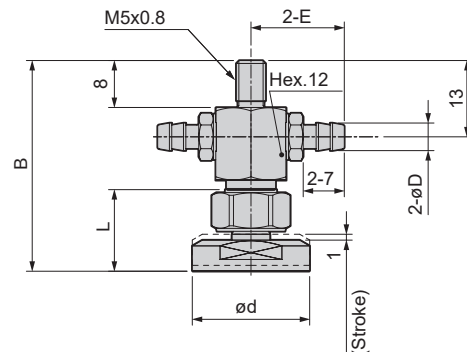
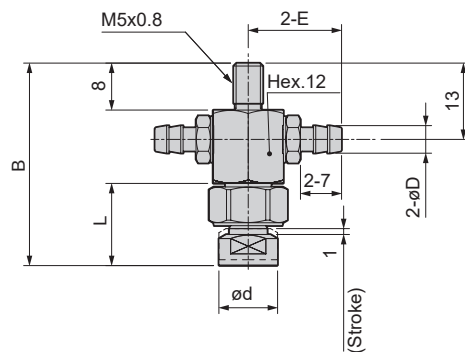
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	Tube end C	E	Weight (g)
VSP-HEW10Q*-2	10	1.8	34.5	14	8.4	14.7	25
VSP-HEW10Q*-4		4			11.2	18.8	27
VSP-HEW10Q*-6		6			11.9	20.6	29
VSP-HEW20Q*-2	20	1.8	35.9	13.9	8.4	14.7	33
VSP-HEW20Q*-4		4			11.2	18.8	35
VSP-HEW20Q*-6		6			11.9	20.6	37
VSP-HEW30Q*-2	30	1.8	35.9	13.9	8.4	14.7	43
VSP-HEW30Q*-4		4			11.2	18.8	45
VSP-HEW30Q*-6		6			11.9	20.6	47

Dimensions (low back fixed, vacuum outlet on both sides VSP-HEW, barbed fitting)

●VSP-HEW10Q*-4T/6T

●VSP-HEW20, 30Q*-4T/6T



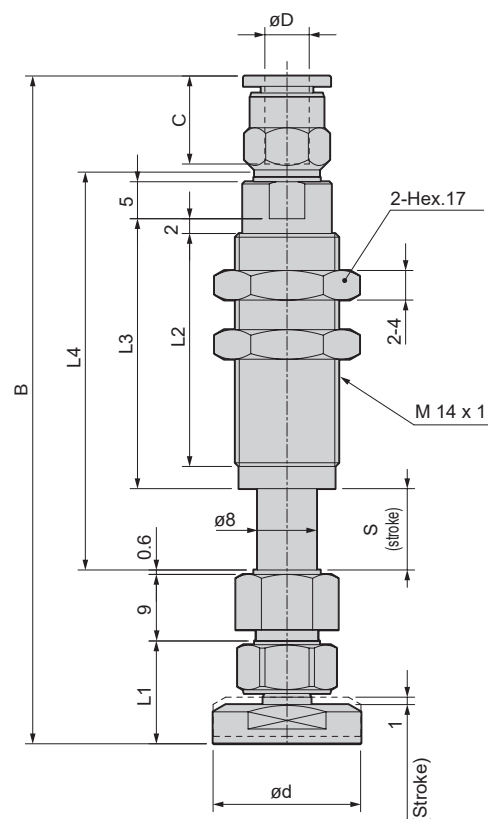
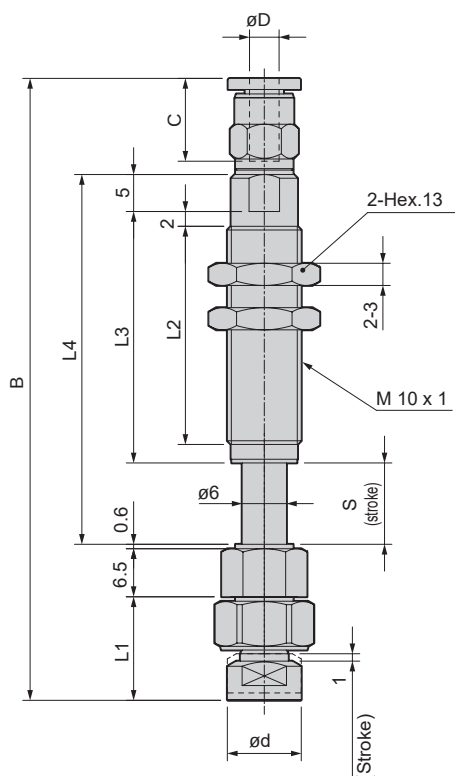
Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L	E	Weight (g)
VSP-HEW10Q*-4T	10	2.5	34.5	14	15.9	24
VSP-HEW10Q*-6T		4				
VSP-HEW20Q*-4T	20	2.5	35.9	13.9	15.9	32
VSP-HEW20Q*-6T		4				
VSP-HEW30Q*-4T	30	2.5	35.9	13.9	15.9	42
VSP-HEW30Q*-6T		4				

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, push-in fitting)

●VSP-LFC10-□Q*-4

●VSP-LFC20, 30-□Q*-4/6



Unit: mm

Model No.	Pad diameter Ød	Bore size ØD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2Q*-4	10	4	68.1	14	21.5	26	34	11.2	2	1.3 to 1.8	33
VSP-LFC10-5Q*-4			74.1		24.5	29	40		5	1.3 to 2.4 [0.33 to 0.6]	35
VSP-LFC10-10Q*-4			84.1		29.5	34	50		10	1.3 to 3.3 [0.33 to 0.83]	37
VSP-LFC10-15Q*-4			94.1		34.5	39	60		15	1.3 to 4.2 [0.33 to 1.05]	39
VSP-LFC10-20Q*-4			104.1		39.5	44	70		20	1.3 to 5.1 [0.33 to 1.28]	41
VSP-LFC20-5Q*-4	20	4	79	13.9	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	61
VSP-LFC20-5Q*-6		6	80.3					11.9			62
VSP-LFC20-10Q*-4		4	89					11.2			63
VSP-LFC20-10Q*-6		6	90.3		31.5	36.5	52.5	11.9	10	4.5 to 8.2 [1.13 to 2.05]	64
VSP-LFC20-15Q*-4		4	99					11.2			66
VSP-LFC20-15Q*-6		6	100.3					11.9			67
VSP-LFC20-20Q*-4		4	109		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	69
VSP-LFC20-20Q*-6		6	110.3					11.9			70
VSP-LFC30-5Q*-4	30	4	79	13.9	26.5	31.5	42.5	11.2	5	4.5 to 6.5 [1.13 to 1.63]	65
VSP-LFC30-5Q*-6		6	80.3					11.9			66
VSP-LFC30-10Q*-4		4	89		31.5	36.5	52.5	11.2	10	4.5 to 8.2 [1.13 to 2.05]	67
VSP-LFC30-10Q*-6		6	90.3					11.9			68
VSP-LFC30-15Q*-4		4	99		36.5	41.5	62.5	11.2	15	4.5 to 9.9 [1.13 to 2.48]	70
VSP-LFC30-15Q*-6		6	100.3					11.9			71
VSP-LFC30-20Q*-4		4	109		41.5	46.5	72.5	11.2	20	4.5 to 14.9 [1.13 to 3.73]	73
VSP-LFC30-20Q*-6		6	110.3					11.9			74

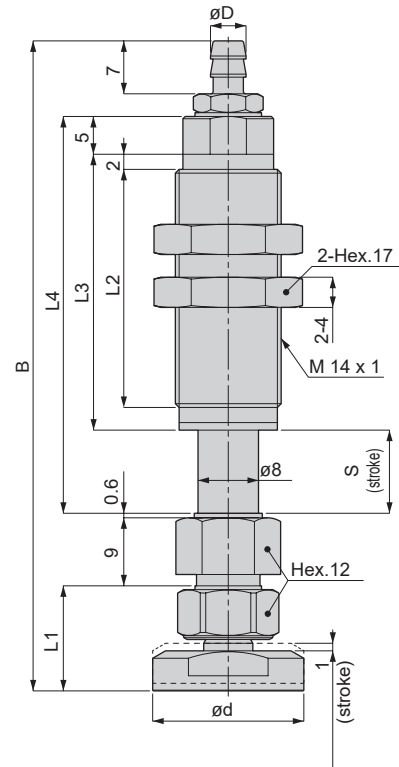
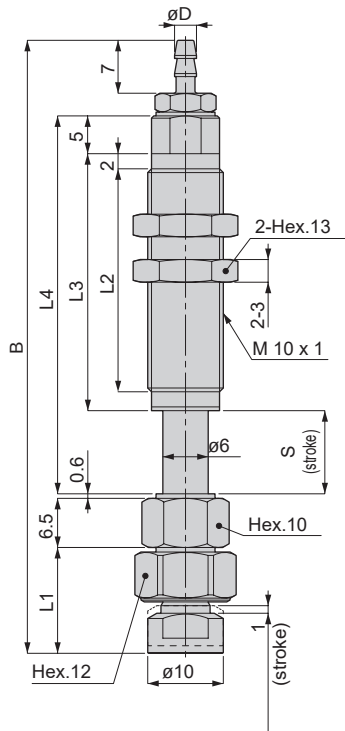
*1: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet top VSP-LFC, barbed fitting)

●VSP-LFC10-□Q*-4T/6T

●VSP-LFC20, 30-□Q*-4T/6T

Suction pad
General/Deep/Compact
Sponge
Bellows
Multi-stage bellows
Oval
Soft
Soft bellows
Anti-slip
Thin object
Flat
Suction mark prevention



Unit: mm

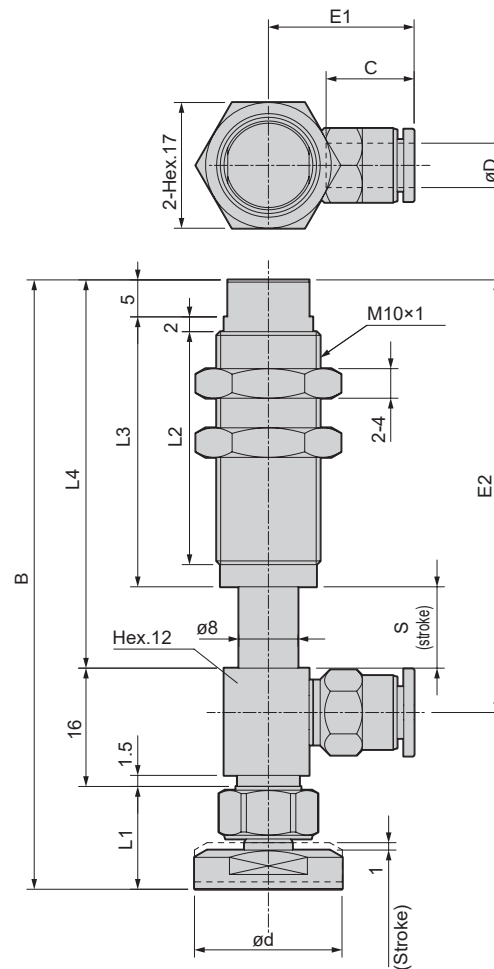
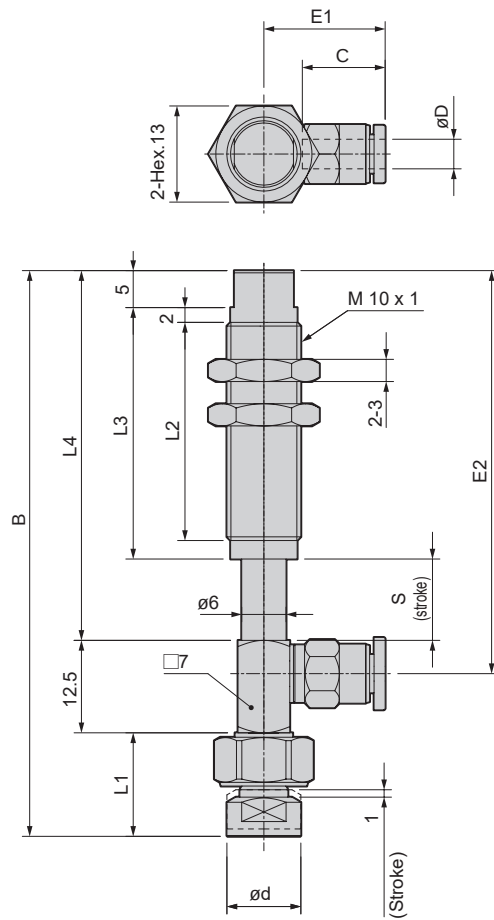
Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Weight (g)
VSP-LFC10-2Q*-4T	10	2.5	65.2	14	21.5	26	34	2	1.3 to 1.8	31
VSP-LFC10-2Q*-6T		4								
VSP-LFC10-5Q*-4T		2.5	71.2		24.5	29	40	5	1.3 to 2.4 [0.33 to 0.6]	33
VSP-LFC10-5Q*-6T		4								
VSP-LFC10-10Q*-4T		2.5	81.2		29.5	34	50	10	1.3 to 3.3 [0.33 to 0.83]	35
VSP-LFC10-10Q*-6T		4								
VSP-LFC10-15Q*-4T		2.5	91.2		34.5	39	60	15	1.3 to 4.2 [0.33 to 1.05]	37
VSP-LFC10-15Q*-6T		4								
VSP-LFC10-20Q*-4T		2.5	101.2		39.5	44	70	20	1.3 to 5.1 [0.33 to 1.28]	39
VSP-LFC10-20Q*-6T		4								
VSP-LFC20-5Q*-4T	20	2.5	76.1	13.9	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	56
VSP-LFC20-5Q*-6T		4								
VSP-LFC20-10Q*-4T		2.5	86.1		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	58
VSP-LFC20-10Q*-6T		4								
VSP-LFC20-15Q*-4T		2.5	96.1		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	61
VSP-LFC20-15Q*-6T		4								
VSP-LFC20-20Q*-4T		2.5	106.1		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	64
VSP-LFC20-20Q*-6T		4								
VSP-LFC30-5Q*-4T	30	2.5	76.1	13.9	26.5	31.5	42.5	5	4.5 to 6.5 [1.13 to 1.63]	60
VSP-LFC30-5Q*-6T		4								
VSP-LFC30-10Q*-4T		2.5	86.1		31.5	36.5	52.5	10	4.5 to 8.2 [1.13 to 2.05]	62
VSP-LFC30-10Q*-6T		4								
VSP-LFC30-15Q*-4T		2.5	96.1		36.5	41.5	62.5	15	4.5 to 9.9 [1.13 to 2.48]	65
VSP-LFC30-15Q*-6T		4								
VSP-LFC30-20Q*-4T		2.5	106.1		41.5	46.5	72.5	20	4.5 to 14.9 [1.13 to 3.73]	68
VSP-LFC30-20Q*-6T		4								

*1: Values in [] are for low load.

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, push-in fitting)

●VSP-LFD10-□Q*-4T

●VSP-LFD20, 30-□Q*-4/6



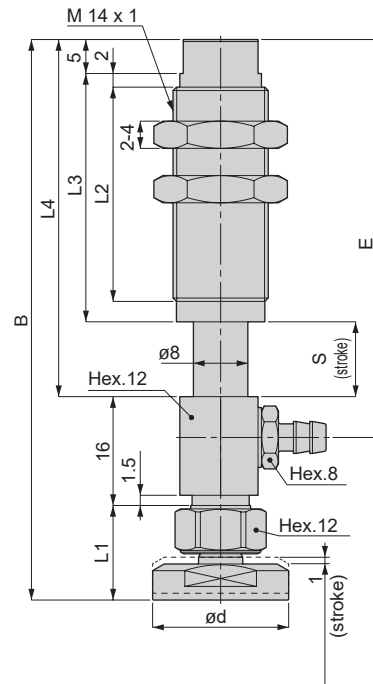
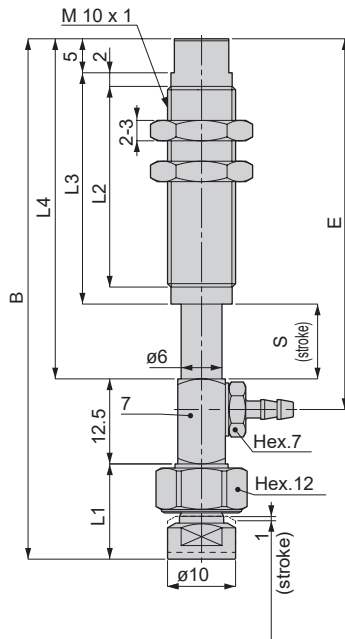
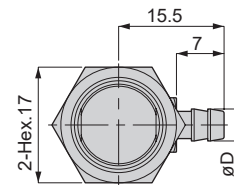
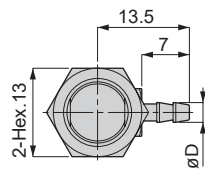
Unit: mm

Model No.	Pad diameter ϕD	Bore size ϕD	B	L1	L2	L3	L4	Tube end C	E1	E2	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5Q*-4	10	4	66.5	14	24.5	29	40	11.2	16.4	44.5	5	1.3 to 2.4	31
VSP-LFD10-10Q*-4			76.5		29.5	34	50			54.5	10	1.3 to 3.3	33
VSP-LFD10-15Q*-4			86.5		34.5	39	60			64.5	15	1.3 to 4.2	36
VSP-LFD10-20Q*-4			96.5		39.5	44	70			74.5	20	1.3 to 5.1	39
VSP-LFD20-5Q*-4	20	4	72.4	13.9	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	62
VSP-LFD20-5Q*-6		6						11.9	19.7				63
VSP-LFD20-10Q*-4		4						11.2	18.4		10	4.5 to 8.2	66
VSP-LFD20-10Q*-6		6						11.9	19.7				67
VSP-LFD20-15Q*-4		4						11.2	18.4	68.5	15	4.5 to 9.9	70
VSP-LFD20-15Q*-6		6						11.9	19.7				71
VSP-LFD20-20Q*-4		4						11.2	18.4	78.5	20	4.5 to 14.9	74
VSP-LFD20-20Q*-6		6						11.9	19.7				75
VSP-LFD30-5Q*-4	30	4	72.4	13.9	26.5	31.5	42.5	11.2	18.4	48.5	5	4.5 to 6.5	66
VSP-LFD30-5Q*-6		6						11.9	19.7				67
VSP-LFD30-10Q*-4		4						11.2	18.4		10	4.5 to 8.2	70
VSP-LFD30-10Q*-6		6						11.9	19.7				71
VSP-LFD30-15Q*-4		4						11.2	18.4	68.5	15	4.5 to 9.9	74
VSP-LFD30-15Q*-6		6						11.9	19.7				75
VSP-LFD30-20Q*-4		4						11.2	18.4	78.5	20	4.5 to 14.9	78
VSP-LFD30-20Q*-6		6						11.9	19.7				79

Dimensions (low dust generation buffer, vacuum outlet side VSP-LFD, barbed fitting)

●VSP-LFD10-□Q*-4T/6T

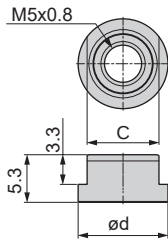
●VSP-LFD20, 30-□Q*-4T/6T



Unit: mm

Model No.	Pad diameter ød	Bore size øD	B	L1	L2	L3	L4	E	Stroke S	Spring force (N)	Weight (g)
VSP-LFD10-5Q*-4T	10	2.5	66.5	14	24.5	29	40	44.5	5	1.3 to 2.4	30
VSP-LFD10-5Q*-6T		4									
VSP-LFD10-10Q*-4T		2.5	76.5		29.5	34	50	54.5	10	1.3 to 3.3	32
VSP-LFD10-10Q*-6T		4									
VSP-LFD10-15Q*-4T		2.5	86.5		34.5	39	60	64.5	15	1.3 to 4.2	34
VSP-LFD10-15Q*-6T		4									
VSP-LFD10-20Q*-4T		2.5	96.5		39.5	44	70	74.5	20	1.3 to 5.1	36
VSP-LFD10-20Q*-6T		4									
VSP-LFD20-5Q*-4T	20	2.5	72.4	13.9	26.5	31.5	42.5	48.5	5	4.5 to 6.5	58
VSP-LFD20-5Q*-6T		4									
VSP-LFD20-10Q*-4T		2.5	82.4		31.5	36.5	52.5	58.5	10	4.5 to 8.2	61
VSP-LFD20-10Q*-6T		4									
VSP-LFD20-15Q*-4T		2.5	92.4		36.5	41.5	62.5	68.5	15	4.5 to 9.9	65
VSP-LFD20-15Q*-6T		4									
VSP-LFD20-20Q*-4T		2.5	102.4		41.5	46.5	72.5	78.5	20	4.5 to 14.9	69
VSP-LFD20-20Q*-6T		4									
VSP-LFD30-5Q*-4T	30	2.5	72.4	13.9	26.5	31.5	42.5	48.5	5	4.5 to 6.5	62
VSP-LFD30-5Q*-6T		4									
VSP-LFD30-10Q*-4T		2.5	82.4		31.5	36.5	52.5	58.5	10	4.5 to 8.2	64
VSP-LFD30-10Q*-6T		4									
VSP-LFD30-15Q*-4T		2.5	92.4		36.5	41.5	62.5	68.5	15	4.5 to 9.9	69
VSP-LFD30-15Q*-6T		4									
VSP-LFD30-20Q*-4T		2.5	102.4		41.5	46.5	72.5	78.5	20	4.5 to 14.9	73
VSP-LFD30-20Q*-6T		4									

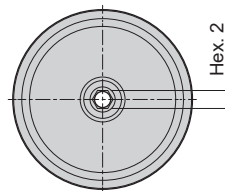
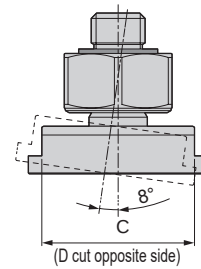
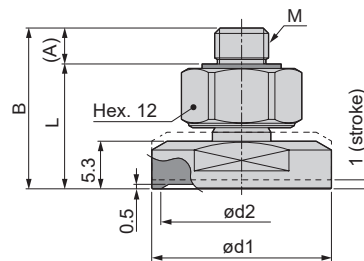
Dimensions: Resin pad only



Unit: mm

Resin pad single unit Model No.	Pad diameter ød	C	Weight (g)	Applicable pad model No.
VSPG-10Q*-RP	10	8	0.4	VSP-*10Q*
VSPG-20Q*-RP	20	17	2	VSP-*20Q*
VSPG-30Q*-RP	30	27	4.6	VSP-*30Q*

Dimensions: pad with flexible holder



Unit: mm

Model No.	Pad diameter ød1	Effective diameter ød2	M	A	B	L	C	Weight (g)
VSPG-10Q*	10	8	M4x0.7	2.9	16.9	14	8	7
VSPG-20Q*	20	18	M6x1	4	17.9	13.9	17	10
VSPG-30Q*	30	28	M6x1	4	17.9	13.9	27	14

Suction pad

General/Deep/
Compact

Sponge

Belows

Multi-stage
bellows

Oval

Soft

Soft
bellows

Anti-slip

Thin object

Flat

Suction mark
prevention