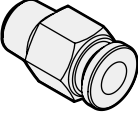
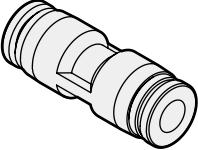
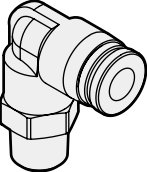
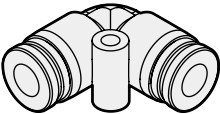
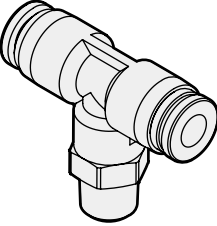
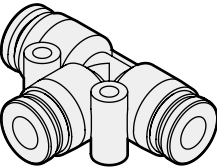
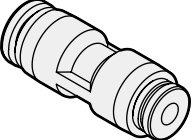
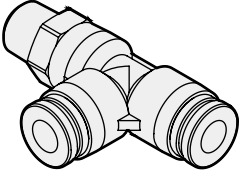
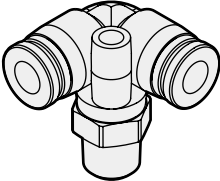
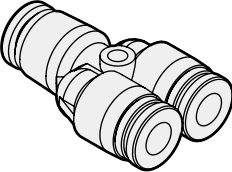
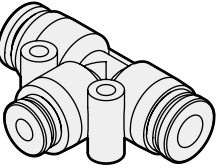
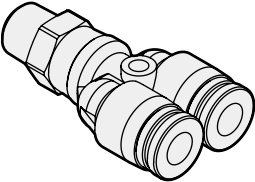


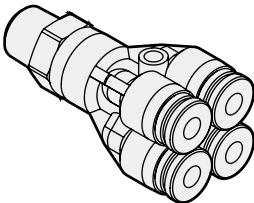
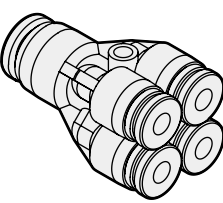
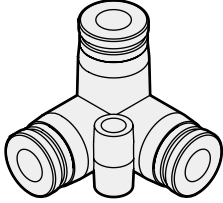
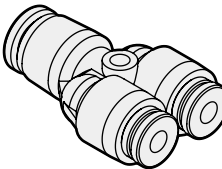
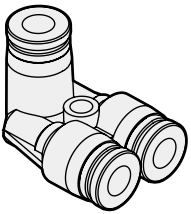
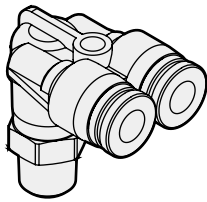
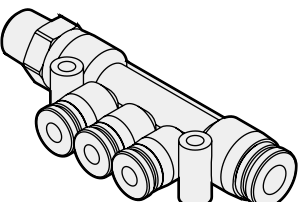
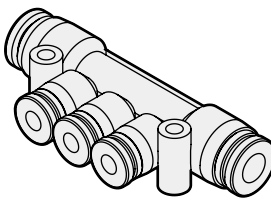
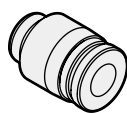
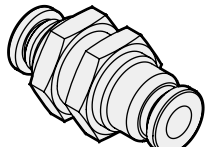
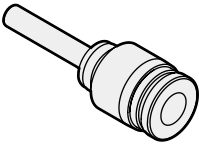
ZSP

Fitting stainless steel
Port size: M5, R1/8 to R1/2



Straight ZSP-C□-□		Union straight ZSP-U□		Elbow ZSP-L□-□	
	Compatible tube O.D. ø		Compatible tube O.D. ø		Compatible tube O.D. ø
	4		4		4
	6		6		6
	8		8		8
	10		10		10
	12		12		12
·Refer to page: 851		·Refer to page: 851		·Refer to page: 851	
Union elbow ZSP-V□		Tee ZSP-B□-□		Union tee ZSP-E□	
	Compatible tube O.D. ø		Compatible tube O.D. ø		Compatible tube O.D. ø
	4		4		4
	6		6		6
	8		8		8
	10		10		10
	12		12		12
·Refer to page: 851		·Refer to page: 852		·Refer to page: 852	
Different diameter union straight ZSP-G□-□		Branch tee ZSP-D□-□		Tripod elbow ZSP-VX□-□	
	Compatible tube O.D. ø		Compatible tube O.D. ø		Compatible tube O.D. ø
	6/4		4		4
	8/6		6		6
	10/8		8		8
	12/10		10		10
			12		12
·Refer to page: 852		·Refer to page: 852		·Refer to page: 853	
Union Y ZSP-Y□		Different diameter union tee ZSP-EG□-□		Branch Y ZSP-X□-□	
	Compatible tube O.D. ø		Compatible tube O.D. ø		Compatible tube O.D. ø
	4		6/4		4
	6		8/6		6
	8		10/8		8
	10		12/10		10
	12				12
·Refer to page: 853		·Refer to page: 853		·Refer to page: 853	

· Sales unit is 10 pcs./bag.

Branch double Y ZSP-RX□-□		Compatible tube O.D. Ø 4 6	Different diameter double Y ZSP-RG□-□		Compatible tube O.D. Ø 6/4 8/6	Tripod union ZSP-VU□		Compatible tube O.D. Ø 4 6 8 10 12
·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 854
Different diameter union Y ZSP-W□-□		Compatible tube O.D. Ø 6/4 8/6 10/8 12/10	Union A ZSP-AU□		Compatible tube O.D. Ø 4 6 8 10 12	Branch elbow ZSP-AX□-□		Compatible tube O.D. Ø 4 6 8 10 12
·Refer to page: 854	·Refer to page: 854	·Refer to page: 854	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855
Branch triple ZSP-KD□-□-□		Compatible tube O.D. Ø 6/4 8/4 8/6 10/8	Different diameter triple ZSP-KG□-□		Compatible tube O.D. Ø 6/4 8/4 8/6 10/6 10/8	Cap ZSP-PF□		Compatible tube O.D. Ø 4 6 8 10 12
·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 855	·Refer to page: 856	·Refer to page: 856	·Refer to page: 856
Bulkhead union ZSP-M□		Compatible tube O.D. Ø 4 6 8 10 12	Reducer ZSP-J□-□		Compatible tube O.D. Ø 6/4 4/6 4/8 6/8 4/10 6/10 8/10 6/12 8/12 10/12			
·Refer to page: 856	·Refer to page: 856	·Refer to page: 856	·Refer to page: 856	·Refer to page: 856	·Refer to page: 856			

· Sales unit is 10 pcs./bag.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRISens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



Fitting stainless steel

ZSP Series

- Port size: M5, R1/8 to 1/2
- Compatible tube O.D.: ø4 to ø12



Features

- Stainless steel (SUS303 or equivalent) metal body
Perfect for use in corrosive atmospheres, or atmospheres susceptible to copper ions.
- Diverse range of model variations
A wide range of variations for various pneumatic piping.
- Environment-friendly products
As a RoHS Directive compatible product, all substances which adversely affect the global environment have been eliminated from the materials.

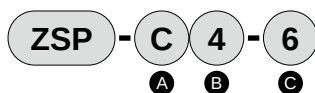
Specifications

Item	ZSP	
Working fluid	Air	
Max. working pressure	MPa	1.0 (≈150 psi, 10 bar)
Negative pressure	kPa	-100 (≈-15 psi, -1 bar)
Ambient temperature	°C	0 (32°F) to 60 (140°F) (no freezing. *1)

*1: Freezing may occur due to adiabatic expansion depending on the air quality (dew point).

How to order

* Refer to the model No. on the dimensions page (pages 851 to 856) for the model No. combination.

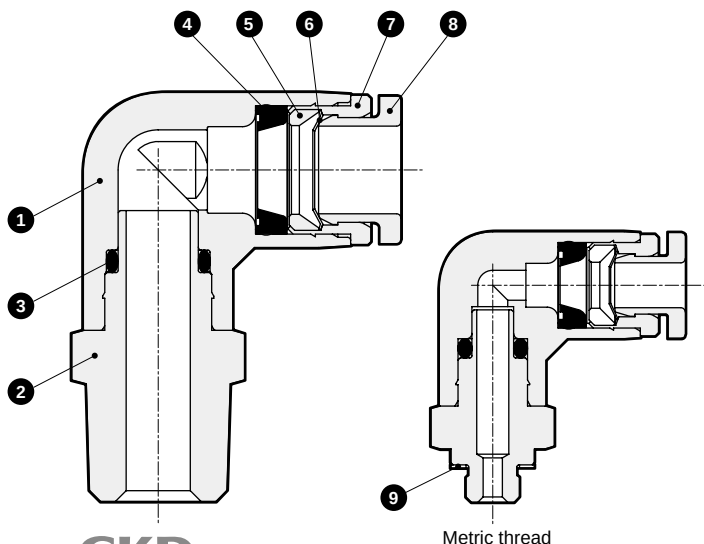


A Shape				B Compatible tube O.D.		C Port size *1	
C	Straight	RX	Branch double Y	4	ø4	M5	M5×0.8
U	Union straight	RG	Different diameter double Y	6	ø6	M5S	M5 x 0.8 (Slim type)
L	Elbow	VU	Tripod union	8	ø8	6	R1/8
V	Union elbow	W	Different diameter union Y	10	ø10	8	R1/4
B	Tee	AU	Union A	12	ø12	10	R3/8
E	Union tee	AX	Branch elbow			15	R1/2
G	Different diameter union straight	KD	Branch triple				
D	Branch tee	KG	Different diameter triple				
VX	Tripod elbow	PF	Cap				
Y	Union Y	M	Bulkhead union				
EG	Different diameter union tee	J	Reducer				
X	Branch Y						

*1: In the case of C compatible tube O.D., select from the B table.

*2: Sales unit is 10 pcs./bag.

Internal structure and parts list

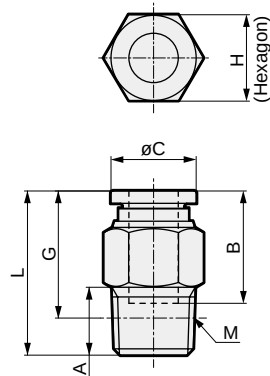
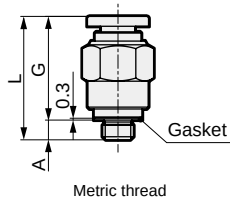


No.	Part name	Material
1	Resin body	Polybutylene terephthalate
2	Metal body	Stainless steel (SUS303 or equivalent)
3	O-ring	Hydrogenated nitrile rubber
4	Elastic sleeve	Hydrogenated nitrile rubber
5	Lock ring	Stainless steel (SUS303 or equivalent)
6	Lock claw	Stainless steel (SUS301)
7	Guide ring	Stainless steel (SUS303 or equivalent)
8	Release ring	Polyacetal
9	Gasket	Polyphenylene sulfide

Dimensions

Straight

● ZSP-C□-□

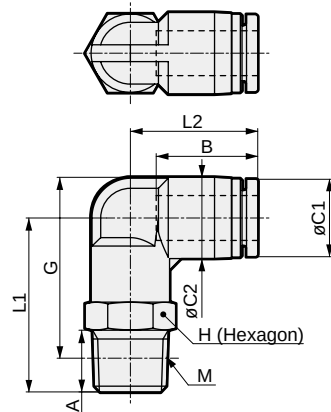
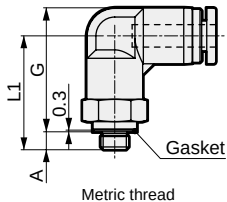


Model No.	Tube O.D. φ	M	A	L	G	B	C	H	Eff. X-sectional area mm ²	Wt. g
ZSP-C4-M5	4	M5×0.8	3.2	20	16.8	14.9	9.9	10	1.9	5.6
ZSP-C4-M5S		M5×0.8	3.2	22.9	19.7	14.9	9.9	8	1.9	5.9
ZSP-C4-6		R1/8	8	21	17	14.9	9.9	10	5.3	7.5
ZSP-C4-8		R1/4	11	21	15	14.9	9.9	14	5.3	15
ZSP-C6-M5	6	M5×0.8	3.2	22.1	18.9	17	11.8	12	1.9	8.1
ZSP-C6-6		R1/8	8	22.6	18.6	17	11.8	12	12.5	8.3
ZSP-C6-8		R1/4	11	24.6	18.5	17	11.8	14	12.5	16
ZSP-C6-10		R3/8	12	23.6	17.2	17	11.8	17	12.5	25
ZSP-C8-6	8	R1/8	8	27.9	23.9	18.2	13.8	14	20	14
ZSP-C8-8		R1/4	11	26.6	20.6	18.2	13.8	14	20	14
ZSP-C8-10		R3/8	12	23.9	17.6	18.2	13.8	17	20	21
ZSP-C10-6		R1/8	8	30.3	26.3	20.7	16.8	17	22.9	21
ZSP-C10-8	10	R1/4	11	29.8	23.8	20.7	16.8	17	35	19
ZSP-C10-10		R3/8	12	29.3	23	20.7	16.8	17	35	24
ZSP-C10-15		R1/2	15	30.3	22.1	20.7	16.8	21	35	46
ZSP-C12-8		R1/4	11	35.9	29.9	23.3	19.8	21	35	40
ZSP-C12-10	12	R3/8	12	31.9	25.6	23.3	19.8	21	59	32
ZSP-C12-15		R1/2	15	33.9	25.7	23.3	19.8	21	59	45

Note) The G dimensions for the taper screw type are reference dimensions after tightening.

Elbow

● ZSP-L□-□



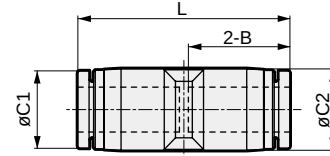
Model No.	Tube O.D. φ	M	A	L1	G	C1	C2	B	L2	H	Eff. X-sectional area mm ²	Wt. g
ZSP-L4-M5	4	M5×0.8	3.2	20.3	22.1	9.9	10	14.9	18	10	1.5	7.3
ZSP-L4-6		R1/8	8	23.3	24.3	9.9	10	14.9	18	10	4.2	10
ZSP-L4-8		R1/4	11	26.3	25.3	9.9	10	14.9	18	14	4.2	19
ZSP-L6-M5		M5×0.8	3.2	22	25.1	11.8	12.5	16.8	19.8	12	1.5	11
ZSP-L6-6	6	R1/8	8	25	27.3	11.8	12.5	16.8	19.8	12	10	13
ZSP-L6-8		R1/4	11	28	28.2	11.8	12.5	16.8	19.8	14	10	20
ZSP-L6-10		R3/8	12	29.8	29.7	11.8	12.5	16.8	19.8	17	10	32
ZSP-L8-6		R1/8	8	28	31.3	13.8	14.5	18.1	22.7	14	16.5	17
ZSP-L8-8	8	R1/4	11	31	32.2	13.8	14.5	18.1	22.7	14	16.5	22
ZSP-L8-10		R3/8	12	32.8	33.7	13.8	14.5	18.1	22.7	17	16.5	34
ZSP-L10-6		R1/8	8	33	37.8	16.8	17.5	20.2	26.2	17	22.4	29
ZSP-L10-8		R1/4	11	36	38.7	16.8	17.5	20.2	26.2	17	30	31
ZSP-L10-10	10	R3/8	12	37	39.4	16.8	17.5	20.2	26.2	17	30	39
ZSP-L10-15		R1/2	15	40	40.6	16.8	17.5	20.2	26.2	21	30	59
ZSP-L12-8		R1/4	11	38	42.5	19.8	21	23.4	29.4	21	30	47
ZSP-L12-10		R3/8	12	39	43.2	19.8	21	23.4	29.4	21	47	48
ZSP-L12-15	12	R1/2	15	42	44.3	19.8	21	23.4	29.4	21	47	63

Note) The G dimensions for the taper screw type are reference dimensions after tightening.

Union Straight

● ZSP-U□-□

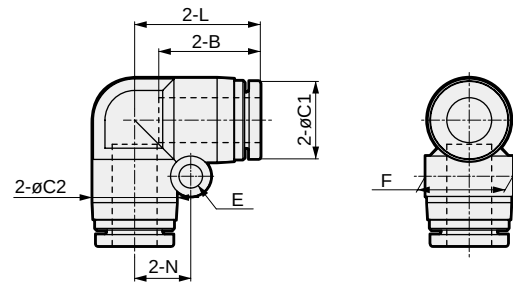
[Sales unit is 10 pcs./bag]



Model No.	Tube O.D. φ	L	C1	C2	B	Eff. X-sectional area mm ²	Wt. g
ZSP-U4	4	30.8	9.9	10	14.9	5.3	4.4
ZSP-U6	6	34.9	11.8	12.5	17	12.5	6.2
ZSP-U8	8	37.8	13.8	14.5	18.1	20	8.8
ZSP-U10	10	41.4	16.8	17.5	20.2	35	15
ZSP-U12	12	47.8	19.8	21	23.4	59	21

Union Elbow

● ZSP-V□



Model No.	Tube O.D. φ	C1	C2	B	L	E	N	F	Eff. X-sectional area mm ²	Wt. g
ZSP-V4	4	9.9	10	14.9	16.9	3.2	6.5	10.4	4.2	4.7
ZSP-V6	6	11.8	12.5	17	20.1	3.2	8	13.5	10	6.9
ZSP-V8	8	13.8	15	18.1	22.4	4.2	10	15.6	16.5	11
ZSP-V10	10	16.8	17.5	20.2	26.2	4.2	12	18.2	30	16
ZSP-V12	12	19.8	21	23.4	29.4	4.2	14	21.7	47	24



F.R.L.

Dimensions

F.R.

F (Filtr)

R (Reg)

L (Lub)

Drain Separ

Mech Press SW

Res press exh valve

SlowStart

Anti-bac/Bac- remove Filtr

Film Resist FR

Oil-Prohr

Med Press FR

No Cu/ PTFE FRL

Outdrs FRL

Adapter Joiner

Press Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneR

AirBoost

Speed Ctrl

Silncr

CheckV/ other

Fit/Tube

Nozzle

Air Unit

PrecsCompn

Electro Press SW

ContactSW

AirSens

PresSW Cool

Air Flo Sens/Ctrl

WaterRtSens

TotAirSys (Total Air)

TotAirSys (Gamma)

Gas generator

RefrDry

DesicDry

HiPolymDry

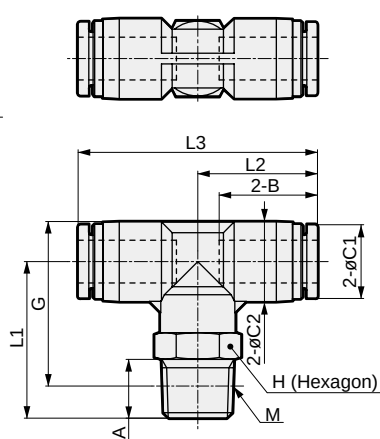
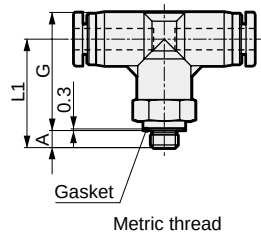
MainFiltr

Dischrg etc

Ending

Tee

● ZSP-B□-□

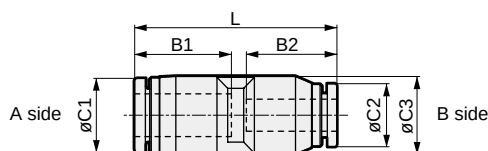


Model No.	Tube O.D. ø	M	A	L1	G	C1	C2	B	L2	L3	H	Eff. X-sectional area mm²	Wt. g
ZSP-B4-M5	4	M5×0.8	3.2	20.2	22	9.9	10	14.9	16.9	33.8	10	1.5	9.4
ZSP-B4-6		R1/8	8	23.2	24.2	9.9	10	14.9	16.9	33.8	10	4.1	13
ZSP-B4-8		R1/4	11	26.2	25.2	9.9	10	14.9	16.9	33.8	14	4.1	21
ZSP-B6-M5	6	M5×0.8	3.2	23	26.3	11.8	13	17	20.15	40.3	12	1.5	15
ZSP-B6-6		R1/8	8	26	28.5	11.8	13	17	20.15	40.3	12	10	17
ZSP-B6-8		R1/4	11	29	29.5	11.8	13	17	20.15	40.3	14	10	24
ZSP-B6-10	8	R3/8	12	30.8	31	11.8	13	17	20.15	40.3	17	10	36
ZSP-B8-6		R1/8	8	26.3	29.8	13.8	15	18.1	22.4	44.8	14	16.5	21
ZSP-B8-8		R1/4	11	29.3	30.8	13.8	15	18.1	22.4	44.8	14	16.5	26
ZSP-B8-10	10	R3/8	12	31.1	32.3	13.8	15	18.1	22.4	44.8	17	16.5	38
ZSP-B10-6		R1/8	8	33	37.8	16.8	17.5	20.2	25.2	50.4	17	30	36
ZSP-B10-8		R1/4	11	36	38.7	16.8	17.5	20.2	25.2	50.4	17	30	38
ZSP-B10-10	12	R3/8	12	37	39.4	16.8	17.5	20.2	25.2	50.4	17	30	46
ZSP-B10-15		R1/2	15	40	40.6	16.8	17.5	20.2	25.2	50.4	21	30	65
ZSP-B12-8		R1/4	11	38	42.5	19.8	21	22.9	28.4	56.8	21	30	56
ZSP-B12-10	12	R3/8	12	39	43.2	19.8	21	22.9	28.4	56.8	21	47	58
ZSP-B12-15		R1/2	15	42	44.3	19.8	21	22.9	28.4	56.8	21	47	73

Note) The G dimensions for the taper screw type are reference dimensions after tightening.

Different diameter union straight

● ZSP-G□-□

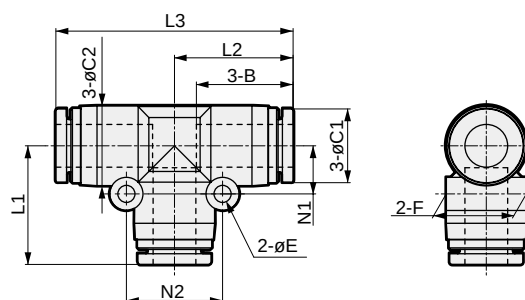


Model No.	Tube O.D. ø	A side	B side	L	C1	C2	C3	B1	B2	Eff. X-sectional area mm²	Wt. g
ZSP-G6-4	6	4	34.4	11.8	9.9	12.5	17	14.9	5.3	6	6
ZSP-G8-6	8	6	37.9	13.8	11.8	14.5	18.1	17	12.5	8.3	8.3
ZSP-G10-8	10	8	41.1	16.8	13.8	17.5	20.2	18.1	20	14	14
ZSP-G12-10	12	10	47.6	19.8	16.8	21	23.4	20.2	35	20	20

Union tee

● ZSP-E□

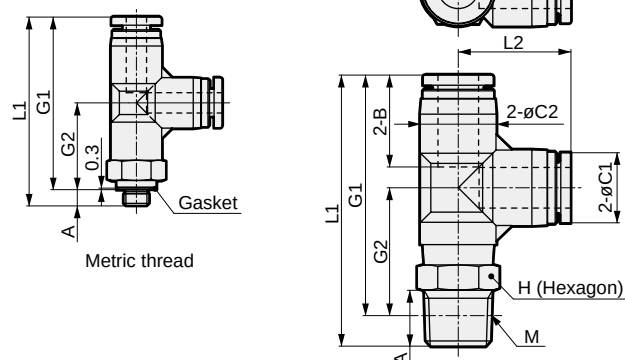
[Sales unit is 10 pcs./bag]



Model No.	Tube O.D. ø	C1	C2	B	L2	L3	E	N1	N2	L1	F	Eff. X-sectional area mm²	Wt. g
ZSP-E4	4	9.9	10.4	14.9	17.2	34.4	3.2	6.5	13	17.2	10	5.3	7.1
ZSP-E6	6	11.8	13	17	20.05	40.1	3.2	8	16	20.1	13.5	12.5	11
ZSP-E8	8	13.8	15	18.1	22.2	44.4	3.2	9	18	22.2	15.6	20	15
ZSP-E10	10	16.8	17.5	20.2	25.2	50.4	4.2	12	24	25.2	18.2	35	24
ZSP-E12	12	19.8	21	22.9	28.4	56.8	4.2	14	28	28.2	21.7	59	34

Branch tee

● ZSP-D□-□



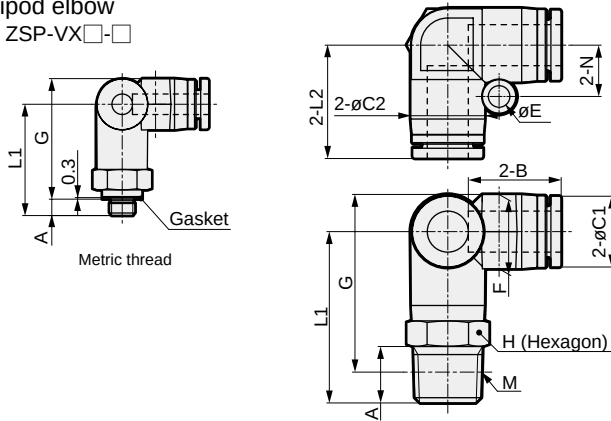
Model No.	Tube O.D. ø	M	A	L1	G1	G2	C1	C2	B	L2	H	Eff. X-sectional area mm²	Wt. g
ZSP-D4-M5	4	M5×0.8	3.2	37.1	33.9	17	9.9	10	14.9	16.9	10	1.9	9.4
ZSP-D4-6		R1/8	8	40.1	36.1	19.2	9.9	10	14.9	16.9	10	5.3	13
ZSP-D4-8		R1/4	11	43.1	37.1	20.2	9.9	10	14.9	16.9	14	5.3	21
ZSP-D6-M5	6	M5×0.8	3.2	43.2	40	19.8	11.8	13	17	20.1	12	1.9	15
ZSP-D6-6		R1/8	8	46.2	42.2	22	11.8	13	17	20.1	12	12.5	17
ZSP-D6-8		R1/4	11	49.2	43.1	23	11.8	13	17	20.1	14	12.5	24
ZSP-D6-10	8	R3/8	12	51	44.6	24.5	11.8	13	17	20.1	17	12.5	35
ZSP-D8-6		R1/8	8	50.4	46.4	24.2	13.8	15	18.1	22.2	14	20	21
ZSP-D8-8		R1/4	11	53.4	47.4	25.2	13.8	15	18.1	22.2	14	20	27
ZSP-D8-10	10	R3/8	12	55.2	48.9	26.7	13.8	15	18.1	22.2	17	20	38
ZSP-D10-6		R1/8	8	58.2	54.2	29	16.8	17.5	20.2	25.2	17	35	36
ZSP-D10-8		R1/4	11	61.2	55.2	30	16.8	17.5	20.2	25.2	17	35	38
ZSP-D10-10	12	R3/8	12	62.2	55.9	30.7	16.8	17.5	20.2	25.2	17	35	46
ZSP-D10-15		R1/2	15	65.2	57	31.8	16.8	17.5	20.2	25.2	21	35	65
ZSP-D12-8	12	R1/4	11	66.6	60.6	32.2	19.8	21	22.9	28.2	21	35	57
ZSP-D12-10		R3/8	12	67.6	61.3	32.9	19.8	21	22.9	28.2	21	59	58
ZSP-D12-15		R1/2	15	70.6	62.4	34	19.8	21	22.9	28.2	21	59	72

Note) The G1 and G2 dimensions for the taper screw type are reference dimensions after tightening.

Dimensions

Tripod elbow

● ZSP-VX□-□

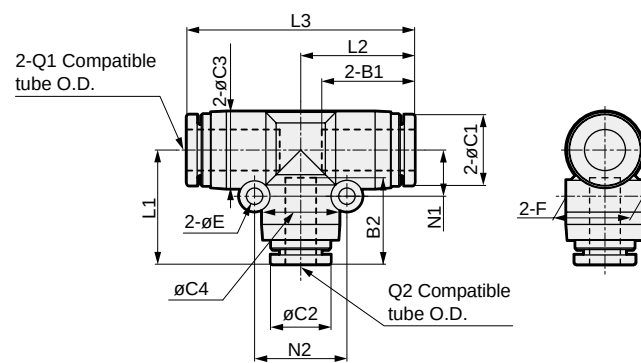


Model No.	Tube O.D. ø	M	A	L1	G	C1	C2	B	L2	H	E	N	F	Eff. X-sectional area mm ²	Wt. g
ZSP-VX4-M5	4	M5×0.8	3.2	21.7	23.5	9.9	10	14.9	16.9	10	3.2	6.5	10	2.3	11
ZSP-VX4-6	4	R1/8	8	24.7	26.7	9.9	10	14.9	16.9	10	3.2	6.5	10	4	14
ZSP-VX4-8	4	R1/4	11	27.7	26.7	9.9	10	14.9	16.9	14	3.2	6.5	10	3.5	23
ZSP-VX6-M5	6	M5×0.8	3.2	25.3	28.4	11.8	12.5	17	20.1	12	4.2	8	12.5	2.3	17
ZSP-VX6-6	6	R1/8	8	28.3	30.6	11.8	12.5	17	20.1	12	4.2	8	12.5	8.5	18
ZSP-VX6-8	6	R1/4	11	31.3	31.5	11.8	12.5	17	20.1	14	4.2	8	12.5	8	26
ZSP-VX6-10	6	R3/8	12	33.1	33	11.8	12.5	17	20.1	17	4.2	8	12.5	8.4	39
ZSP-VX8-6	8	R1/8	8	30.4	33.7	13.8	14.5	18.1	22.1	14	4.2	10	14.5	17.1	24
ZSP-VX8-8	8	R1/4	11	33.4	34.6	13.8	14.5	18.1	22.1	14	4.2	10	14.5	17.5	30
ZSP-VX8-10	8	R3/8	12	35.2	36.1	13.8	14.5	18.1	22.1	17	4.2	10	14.5	17.4	42
ZSP-VX10-6	10	R1/8	8	35.2	40	16.8	17.5	20.2	26.2	17	4.2	12	17.5	17.4	38
ZSP-VX10-8	10	R1/4	11	38.2	40.9	16.8	17.5	20.2	26.2	17	4.2	12	17.5	31.5	44
ZSP-VX10-10	10	R3/8	12	39.2	41.6	16.8	17.5	20.2	26.2	17	4.2	12	17.5	28.1	52
ZSP-VX10-15	10	R1/2	15	42.2	42.8	16.8	17.5	20.2	26.2	21	4.2	12	17.5	24.3	74
ZSP-VX12-8	12	R1/4	11	41.2	45.7	19.8	21	23.4	29.4	21	4.2	14	21	40.9	64
ZSP-VX12-10	12	R3/8	12	42.2	46.4	19.8	21	23.4	29.4	21	4.2	14	21	45	65
ZSP-VX12-15	12	R1/2	15	45.2	47.5	19.8	21	23.4	29.4	21	4.2	14	21	44.8	81

Note) The G dimensions for the taper screw type are reference dimensions after tightening.

Different diameter Union tee

● ZSP-EG□-□

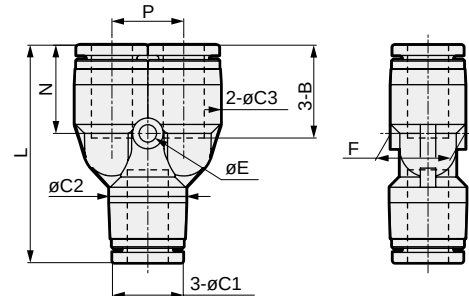


Model No.	Tube O.D. ø	Q1	Q2	C1	C2	C3	C4	B1	B2	L2	L3	E	N1	N2	L1	F	Eff. X-sectional area mm ²	Wt. g
ZSP-EG6-4	6	4	4	11.8	9.9	13	13	17	14.9	20.5	40.1	3.2	8	16	19.5	13.5	4.1	11
ZSP-EG8-6	8	6	6	13.8	11.8	14.5	12.5	18.1	17	22.2	44.4	3.2	9	18	22.3	15.1	9.5	14
ZSP-EG10-8	10	8	8	16.8	13.8	17.5	14.5	20.2	18.1	25.2	50.4	4.2	12	24	24.9	18.2	18.5	23
ZSP-EG12-10	12	10	10	19.8	16.8	21	17.5	23.4	20.2	28.4	56.8	4.2	14	28	28	21.7	29.5	34

Union Y

● ZSP-Y□

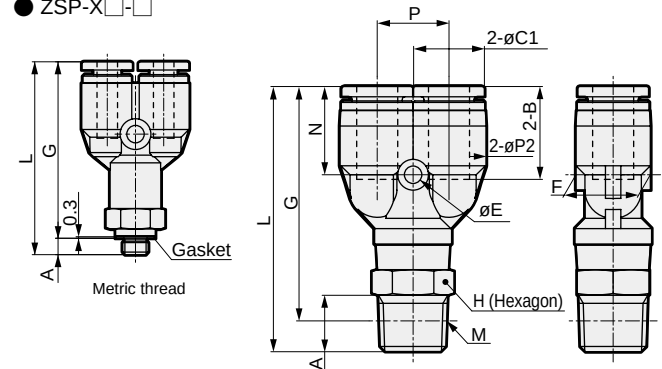
[Sales unit is 10 pcs./bag]



Model No.	Tube O.D. ø	L	C1	C2	C3	B	P	E	N	F	Eff. X-sectional area mm ²	Wt. g
ZSP-Y4	4	32.8	9.9	10	10	14.9	11	3.2	14.1	10.4	4.2	7.6
ZSP-Y6	6	37.7	11.8	13	12.5	17	12	3.4	15.8	13.5	10	10
ZSP-Y8	8	42.4	13.8	15	14.5	18.1	14	3.4	17.2	15.1	16.5	15
ZSP-Y10	10	48.4	16.8	17.5	17.5	20.7	18	4.2	19.5	18.2	27	25
ZSP-Y12	12	54.8	19.8	21	21	23.4	20	4.2	22.2	21.7	38	35

Branch Y

● ZSP-X□-□



Model No.	Tube O.D. ø	M	A	L	G	C1	C2	B	P	E	N	H	F	Eff. X-sectional area mm ²	Wt. g
ZSP-X4-M5	4	M5×0.8	3.2	37.6	34.4	9.9	10	14.9	11	3.2	14.1	10	10.4	1.5	9.9
ZSP-X4-6	4	R1/8	8	40.6	36.6	9.9	10	14.9	11	3.2	14.1	10	10.4	4.2	13
ZSP-X4-8	4	R1/4	11	43.6	37.6	9.9	10	14.9	11	3.2	14.1	14	10.4	4.2	21
ZSP-X6-M5	6	M5×0.8	3.2	41.4	38.2	11.8	12.5	17	12	3.4	15.8	12	13.5	1.5	15
ZSP-X6-6	6	R1/8	8	44.4	40.4	11.8	12.5	17	12	3.4	15.8	12	13.5	10	17
ZSP-X6-8	6	R1/4	11	47.4	41.3	11.8	12.5	17	12	3.4	15.8	14	13.5	10	24
ZSP-X6-10	6	R3/8	12	49.2	42.8	11.8	12.5	17	12	3.4	15.8	17	13.5	10	36
ZSP-X8-6	8	R1/8	8	48.7	44.7	13.8	14.5	18.1	14	3.4	17.2	14	15.1	16.5	22
ZSP-X8-8	8	R1/4	11	51.7	45.7	13.8	14.5	18.1	14	3.4	17.2	14	15.1	16.5	27
ZSP-X8-10	8	R3/8	12	53.5	47.2	13.8	14.5	18.1	14	3.4	17.2	17	15.1	16.5	39
ZSP-X10-6	10	R1/8	8	55.3	51.3	16.8	18	20.7	18	4.5	19.5	17	18	30	38
ZSP-X10-8	10	R1/4	11	58.3	52.3	16.8	18	20.7	18	4.5	19.5	17	18	30	40
ZSP-X10-10	10	R3/8	12	59.3	53	16.8	18	20.7	18	4.5	19.5	17	18	30	48
ZSP-X10-15	10	R1/2	15	62.3	54.1	16.8	18	20.7	18	4.5	19.5	21	18	30	67
ZSP-X12-8	12	R1/4	11	63.5	57.5	19.8	21	23.4	20	4.2	22.2	21	21	37	59
ZSP-X12-10	12	R3/8	12	64.5	58.2	19.8	21	23.4	20	4.2	22.2	21	21	37	61
ZSP-X12-15	12	R1/2	15	67.5	59.3	19.8	21	23.4	20	4.2	22.2	21	21	37	75

Note) The G dimensions for the taper screw type are reference dimensions after tightening.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdris FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending



F.R.L.

Dimensions

F.R.

Branch double Y

F (Filtr)

● ZSP-RX□-□

R (Reg)

L (Lub)

Drain

Separ

Mech

Press SW

Res press

exh valve

SlowStart

Anti-bac/Bac-

remove Filtr

Film

Resist FR

Oil-ProhR

Med

Press FR

No Cu/

PTFE FRL

Outdrs FRL

Adapter

Joiner

Press

Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneUR

AirBoost

Speed Ctrl

Silncr

CheckV/

other

Fit/Tube

Nozzle

Air Unit

PrecsCompn

Electro

Press SW

ContactSW

AirSens

PresSW

Cool

Air Flo

Sens/Ctrl

WaterRtSens

TotAirSys

(Total Air)

TotAirSys

(Gamma)

Gas

generator

RefrDry

DesicDry

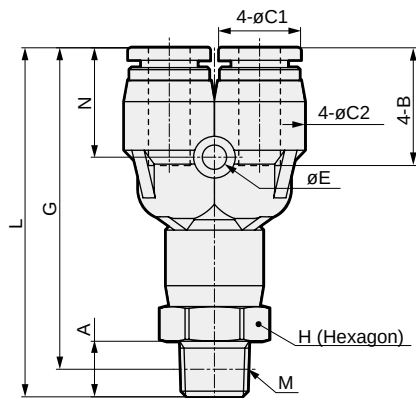
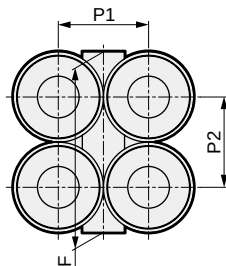
HiPolymDry

MainFiltr

Dischrg

etc

Ending

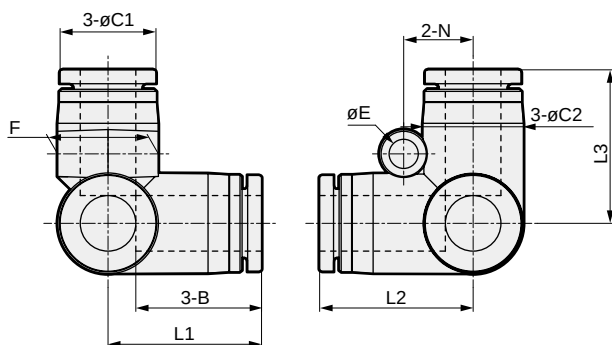


Model No.	Tube O.D. Ø	M	A	L	G	C1	C2	B	P1	P2	H	E	N	F	Eff. X-sectional area mm²	Wt. g
ZSP-RX4-6	4	R1/8	8	45.7	41.7	9.9	10.5	14.9	10	10	12	3.2	14.2	20.5	1.5	20
ZSP-RX4-8	4	R1/4	11	48.7	42.7	9.9	10.5	14.9	10	10	14	3.2	14.2	20.5	1.4	27
ZSP-RX6-6	6	R1/8	8	50.3	46.3	11.8	13	17	13	13	14	3.2	15.8	26	9	27

(Note) The G dimensions are reference dimensions after tightening.

Tripod union

● ZSP-VU□

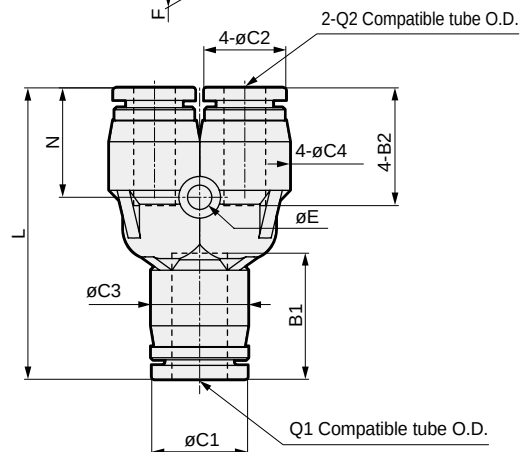
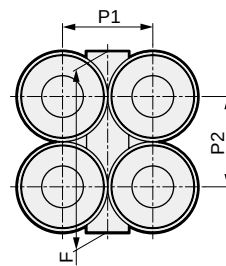


Model No.	Tube O.D. Ø	C1	C2	B	L1	L2	L3	E	N	F	Eff. X-sectional area mm²	Wt. g
ZSP-VU4	4	9.9	10	14.9	17.8	17.8	17.8	3.2	6.5	10.4	3.7	7
ZSP-VU6	6	11.8	12.5	17	20.5	20.5	20.5	4.2	8	12.5	8.3	9.8
ZSP-VU8	8	13.8	14.5	18.1	22.7	22.7	22.7	4.2	10	14.5	16	15
ZSP-VU10	10	16.8	17.5	20.2	26.2	26.2	26.2	4.2	12	17.5	30.2	24
ZSP-VU12	12	19.8	21	23.4	29.4	29.4	29.4	4.2	14	21	40.2	34

Different diameter double Y

● ZSP-RG□-□

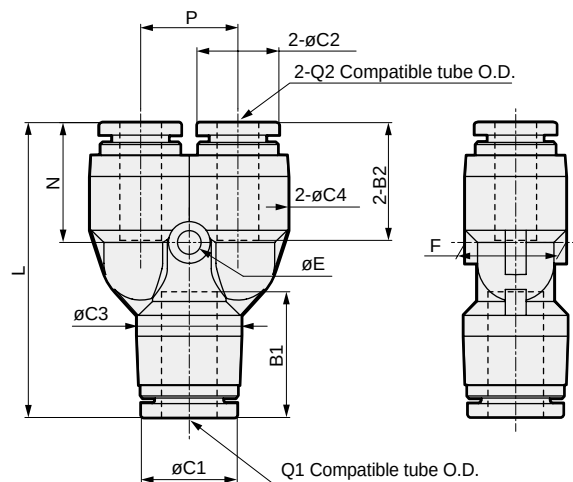
[Sales unit is 10 pcs./bag]



Model No.	Tube O.D. Ø		L	C1	C2	C3	C4	B1	B2	P1	P2	E	N	F	Eff. X-sectional area mm²	Wt. g
	Q1	Q2														
ZSP-RG6-4	6	4	37.5	11.8	9.9	12.5	10.5	17	14.9	10.3	10.3	3.2	14.2	21.3	1.5	13
ZSP-RG8-6	8	6	42	13.8	11.8	14.5	13	18.1	17	12.5	12.5	3.5	15.8	26	8.2	20

Different diameter Union Y

● ZSP-W□-□

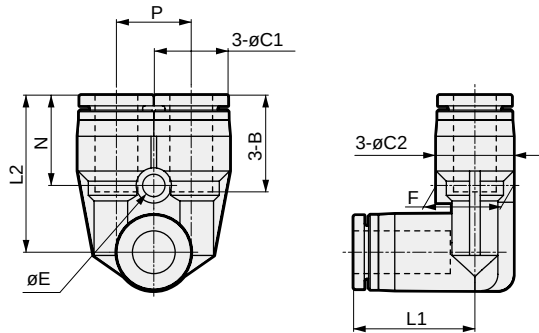


Model No.	Tube O.D. g		L	C1	C2	C3	C4	B1	B2	P	E	N	F	Eff. X-sectional area mm²	Wt. g
	Q1	Q2													
ZSP-W6-4	6	4	37.2	11.8	9.9	13	12.5	17	14.9	12	3.4	15.2	13.5	4.2	9.7
ZSP-W8-6	8	6	42.5	13.8	11.8	14.5	12.5	18.1	17	14	3.4	17.3	15.1	8	13
ZSP-W10-8	10	8	48.1	16.8	13.8	17.5	14.5	20.2	18.1	18	4.5	19.2	18.2	15.9	20
ZSP-W12-10	12	10	54.6	19.8	16.8	21	17.5	23.4	20.2	20	4.5	22	21.7	26.7	30

Dimensions

Union A

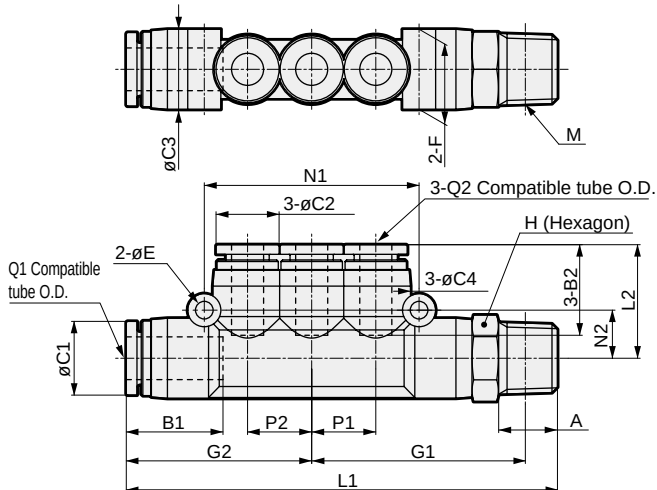
● ZSP-AU□□



Model No.	Tube O.D. ø	L1	C1	C2	B	P	L2	E	N	F	Eff. X-sectional area mm ²	Wt. g
ZSP-AU4	4	16.9	9.9	10	14.9	10.3	22.7	3.2	14.2	10.4	2.5	7.8
ZSP-AU6	6	19.8	11.8	12.5	17	12.5	26.2	4.2	15.5	13.5	7.2	11
ZSP-AU8	8	22.7	13.8	14.5	18.1	14.5	29.4	4.2	16.9	15.6	16.3	16
ZSP-AU10	10	25	16.8	17.5	20.2	17.5	33.5	4.2	18.5	18.2	27.9	26
ZSP-AU12	12	29.4	19.8	21	23.4	21	35.2	4.2	20.4	21.7	40	37

Branch triple

● ZSP-KD□□-□□



Model No.	Tube O.D. ø	Q1	Q2	M	A	L1	L2	G1	G2	P1	P2	C1	C2
ZSP-KD6-4-6	6	4	R1/8	8	68.4	18.4	34.3	30.1	10	10	11.8	9.9	
ZSP-KD8-4-8	8	4	R1/4	11	73.7	19.2	36.5	31.2	10	10	13.8	9.9	
ZSP-KD8-6-8	8	6	R1/4	11	80.7	21.3	40	34.7	12	12	13.8	11.8	
ZSP-KD10-8-10	10	8	R3/8	12	93	23.7	46.7	40	14	14	16.8	13.8	

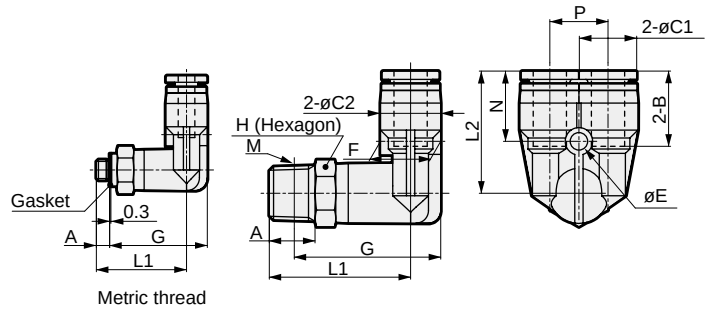
Model No.	C3	C4	B1	B2	N1	N2	E	H	F	Eff. X-sectional area mm ²	Wt. g
ZSP-KD6-4-6	13	10	17	14.9	34	8	3.3	12	13	5	22
ZSP-KD8-4-8	15	10	18.1	14.9	34	9.2	3.3	14	15	5.2	31
ZSP-KD8-6-8	15	13	18.1	17	40.2	9	3.3	14	15	9.6	34
ZSP-KD10-8-10	17.5	15	20.7	18.1	46.2	10.5	3.3	17	17.5	19.1	55

Note) The G1 dimensions are reference dimensions after tightening.

Branch elbow

● ZSP-AX□□-□□

[Sales unit is 10 pcs./bag]

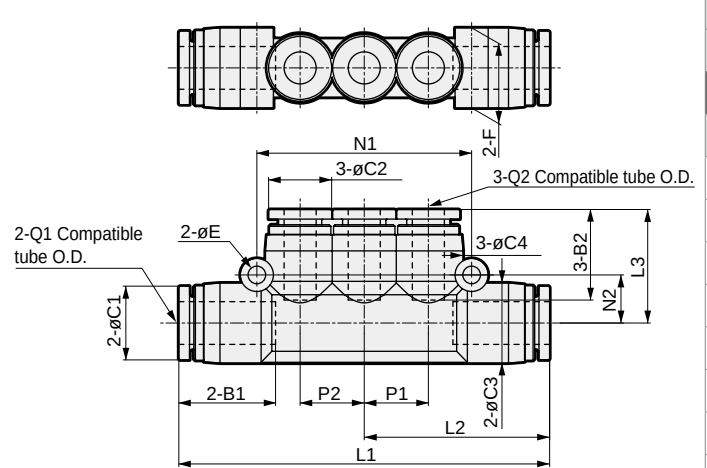


Model No.	Tube O.D. ø	M	A	L1	G	C1	C2	B	P	L2	H	E	N	F	Eff. X-sectional area mm ²	Wt. g
ZSP-AX4-M5	4	M5×0.8	3.2	21.7	23.5	9.9	10	14.9	11	22.7	10	3.2	14.2	10	2.2	11
ZSP-AX4-6	4	R1/8	8	24.7	25.7	9.9	10	14.9	11	22.7	10	3.2	14.2	10	2.7	14
ZSP-AX4-8	4	R1/4	11	27.7	26.7	9.9	10	14.9	11	22.7	14	3.2	14.2	10	2.5	22
ZSP-AX6-M5	6	M5×0.8	3.2	25	28.1	11.8	12.5	17	12	26.2	12	4.2	15.5	12.5	2.2	16
ZSP-AX6-6	6	R1/8	8	28	30.3	11.8	12.5	17	12	26.2	12	4.2	15.5	12.5	6.9	18
ZSP-AX6-8	6	R1/4	11	31	31.2	11.8	12.5	17	12	26.2	14	4.2	15.5	12.5	6.6	25
ZSP-AX6-10	6	R3/8	12	32.8	32.7	11.8	12.5	17	12	26.2	17	4.2	15.5	12.5	6.8	37
ZSP-AX8-6	8	R1/8	8	31	34.3	13.8	14.5	18.1	14	29.4	14	4.2	16.9	14.5	14.6	23
ZSP-AX8-8	8	R1/4	11	34	35.2	13.8	14.5	18.1	14	29.4	14	4.2	16.9	14.5	14.5	29
ZSP-AX8-10	8	R3/8	12	35.8	36.7	13.8	14.5	18.1	14	29.4	17	4.2	16.9	14.5	15	40
ZSP-AX10-6	10	R1/8	8	34	38.8	16.8	17.5	20.2	18	33.5	17	4.2	18.5	17.5	21.6	40
ZSP-AX10-8	10	R1/4	11	37	39.7	16.8	17.5	20.2	18	33.5	17	4.2	18.5	17.5	26.1	42
ZSP-AX10-10	10	R3/8	12	38	40.4	16.8	17.5	20.2	18	33.5	17	4.2	18.5	17.5	27.2	49
ZSP-AX10-15	10	R1/2	15	41	41.6	16.8	17.5	20.2	18	33.5	21	4.2	18.5	17.5	29.9	69
ZSP-AX12-8	12	R1/4	11	41.2	45.7	19.8	21	23.4	20	35.2	21	4.2	20.4	21	38.2	62
ZSP-AX12-10	12	R3/8	12	42.2	46.4	19.8	21	23.4	20	35.2	21	4.2	20.4	21	43.1	63
ZSP-AX12-15	12	R1/2	15	45.2	47.5	19.8	21	23.4	20	35.2	21	4.2	20.4	21	42.1	78

Note) The G dimensions for the taper screw type are reference dimensions after tightening.

Different diameter triple

● ZSP-KG□□-□□



Model No.	Tube O.D. ø	Q1	Q2	L1	L2	L3	P1	P2	C1	C2	C3
ZSP-KG6-4	6	4	60.1	30.05	18.4	10	10	11.8	9.9	13	
ZSP-KG8-4	8	4	62.4	31.2	19.2	10	10	13.8	9.9	15	
ZSP-KG8-6	8	6	69.4	34.7	21.3	12	12	13.8	11.8	15	
ZSP-KG10-6	10	6	80	40	23.8	14	14	16.8	11.8	17.5	
ZSP-KG10-8	10	8	80	40	23.7	14	14	16.8	13.8	17.5	

Model No.	C4	B1	B2	N1	N2	E	2-F	Eff. X-sectional area mm ²	Wt. g
ZSP-KG6-4	10	17	14.9	34	8	3.3	13	5	15
ZSP-KG8-4	10	18.1	14.9	34	9.2	3.3	15	6	19
ZSP-KG8-6	13	18.1	17	40.2	9	3.3	15	10.1	22
ZSP-KG10-6	15	20.7	17	46.2	10.5	3.3	17.5	11.2	30
ZSP-KG10-8	15	20.7	18.1	46.2	10.5	3.3	17.5	19.1	32

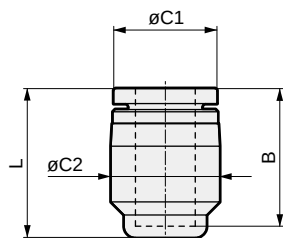
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdris FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending



Dimensions

Cap

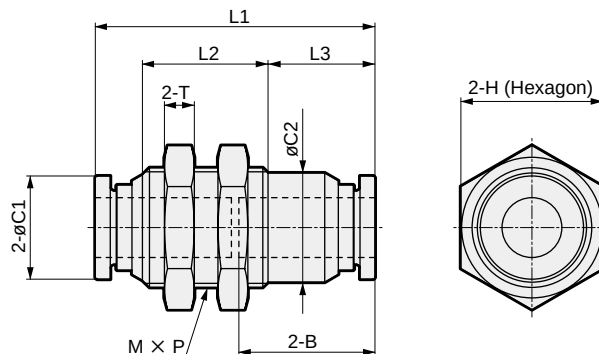
● ZSP-PF□



Bulkhead union

● ZSP-M□

[Sales unit is 10 pcs./bag]

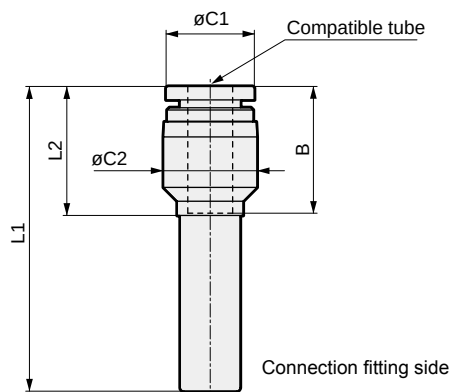


Model No.	Tube O.D. ø	L	C1	C2	B	Wt. g
ZSP-PF4	4	16.4	9.9	10	14.9	2.2
ZSP-PF6	6	18.5	11.8	12.5	17	3.1
ZSP-PF8	8	19.9	13.8	14.5	18.4	4.4
ZSP-PF10	10	22.3	16.8	17.5	20.7	7.3
ZSP-PF12	12	24.9	19.8	21	22.9	11

Model No.	Tube O.D. ø	M x P	L1	L3	L2	C1	C2	B	H	T	Eff. X-sectional area mm²	Wt. g
ZSP-M4	4	M12x1	30.8	10.4	15	9.9	10.8	14.9	14	4	5.3	16
ZSP-M6	6	M14x1	34.9	11	18	11.8	12.5	17	17	4	12.5	24
ZSP-M8	8	M16x1	37.4	14.3	16.8	13.8	14.6	18.2	19	4	20	30
ZSP-M10	10	M20x1	42.4	12.7	23	16.8	18.5	20.7	24	5	35	56
ZSP-M12	12	M22x1	47.6	12.3	29	19.8	20.4	23.3	27	6	71	81

Reducer

● ZSP-J□-□



Model No.	Tube O.D. ø	Port size ø	L1	L2	C1	C2	B	Eff. X-sectional area mm²	Wt. g
ZSP-J4-6	6	4	38.8	19.8	11.8	12.5	17	4	3.5
ZSP-J6-4	4	6	37.7	15.2	9.9	10	14.9	5	2.9
ZSP-J8-4	4	8	40.2	16.7	9.9	12.5	14.9	4.5	3.8
ZSP-J8-6	6	8	40.8	17.3	11.8	12.5	17	11.5	4
ZSP-J10-4	4	10	42.2	17.2	9.9	12.5	14.9	4.5	4.3
ZSP-J10-6	6	10	43.8	18.8	11.8	12.5	17	11.5	4.5
ZSP-J10-8	8	10	43.7	18.7	13.8	14.5	18.1	22.5	5.8
ZSP-J12-6	6	12	48.8	19.8	11.8	14.5	17	10.5	6
ZSP-J12-8	8	12	49.7	20.7	13.8	14.5	18.1	23	6.7
ZSP-J12-10	10	12	50	21	16.8	17.5	20.2	31.5	9.6