



Compact cylinder
Double acting/Single rod/Rubber scraper

SSD2-G-FP1-HP1 Series

● Bore size: $\varnothing 12/\varnothing 16/\varnothing 20/\varnothing 25/\varnothing 32/\varnothing 40/\varnothing 50/\varnothing 63/\varnothing 80/\varnothing 100$

JIS symbol



Specifications

Item	SSD2-G-FP1-HP1 SSD2-GL-FP1-HP1 (with switch)									
Bore size mm	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
Actuation	Double acting									
Working fluid	Compressed air									
Max. working pressure MPa	1.0									
Min. working pressure MPa	0.1	0.2						0.15		
Proof pressure MPa	1.6									
Ambient temperature °C	-10 to 60 (no freezing)									
Port size	M5				Rc1/8 *1		Rc1/4		Rc3/8	
Stroke tolerance mm	+1.0 0									
Working piston speed mm/s	50 to 500							50 to 300		
Cushion	No									
Lubrication	Not required									
Allowable absorbed energy J	0.004	0.01	0.016	0.021	0.025	0.092	0.1	0.12	0.27	0.56

*1: The $\varnothing 32$ bore size with a 5 mm stroke and without a switch has a port size of M5.

Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)
ø12	5/10/15/20/25/30	30	1
ø16			
ø20	5/10/15/20/25/30/35/40/45/50	50	
ø25			
ø32	5/10/15/20/25/30/35/40/45/50/75/100	100	
ø40			
ø50	10/15/20/25/30/35/40/45/50/75/100		
ø63			
ø80			
ø100			

*1: When using the-type with switch, refer to the table of the min. stroke with switch.

Refer to the SSD2-G-HP1 Series on page 69 for dimentions.

SSD2-G-FP1-HP1 Series

How to order

How to order

Without switch (without magnet for switch)

SSD2-G-32-5-N-FP1-LB-I-HP1

With switch (built-in magnet for switch)

SSD2-GL-32-10-T0H-R-N-FP1-LB-I-HP1

A Model No.

B Bore size

C Port thread

D Stroke

E Switch model No.

*1
*2
*3
*6
*7

F Switch quantity

G Option

H Mounting bracket
*4
*9

⚠ Precautions for model No. selection

- *1: The T2YD* switch cannot be mounted on the ø12 and ø16 bore sizes.
- *2: T8* switch cannot be installed on ø12 to ø32.
- *3: The F type switch can only be mounted on the piping port surface of bore sizes ø20 and ø25.
- *4: The mounting bracket is attached at shipment.
- *5: "I" and "Y" cannot be selected together.
- *6: The F type switch with L type lead wire on ø20 models cannot be selected on strokes 15 mm or under.
- *7: Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.
- *8: F type switch cannot be selected.
- *9: The ø12 to ø32 structure does not permit retrofitting of the foot bracket (LB) or flange bracket (FA) on the rod side. Assembly before shipment is available as made to order.

[Example of model No.]

SSD2-GL-20-10-T0H-R-NFP1-LB-I-HP1

Model: Compact cylinder Food-grade grease specifications

- B Bore size : ø20 mm
- C Port thread : M5
- D Stroke : 10 mm
- E Switch model No. : Reed switch T0H*
Lead wire length 1 m
- F Switch quantity : 1 on rod side
- G Option : Rod end male thread
- H Mounting bracket : Axial foot
- I Accessory : Rod eye

I Accessory
*5

Code		Description															
A Model No.																	
SSD2-G		Double acting/Single rod/rubber scraper															
SSD2-GL		Double acting/Single rod/rubber scraper with switch															
B Bore size (mm)																	
12		ø12															
16		ø16															
20		ø20															
25		ø25															
32		ø32															
40		ø40															
50		ø50															
63		ø63															
80		ø80															
100		ø100															
C Port thread																	
Blank		M5 (ø12 to ø25) Rc thread (ø32 to ø100)															
NN		NPT thread (ø32 and over) (made to order)															
GN		G thread (ø32 and over) (made-to-order product)															
D Stroke (mm)																	
Refer to the stroke table on the following page.																	
E Switch model No.																	
Lead wire	Lead wire	Contact	Voltage		Indicator	Lead wire	Bore size										
Straight	L-shaped		AC	DC			12	16	20	25	32	40	50	63	80	100	
F2S*		Proximity		●	1-color LED	2-wire			●	●							
F3S*				●		3-wire			●	●							
F2H*	F2V*			●		2-wire			●	●							
F3H*	F3V*			●		3-wire			●	●							
F3PH*	F3PV*	Proximity		●	1-color LED (PNP output) (made to order)	3-wire			●	●							
F2YH*	F2YV*			●		2-wire			●	●							
F3YH*	F3YV*			●		3-wire			●	●							
T0H*	T0V*		Reed	●		●	1-color LED	2-wire	●	●	●	●	●	●	●	●	●
T5H*	T5V*	●		●	No LED	●			●	●	●	●	●	●	●	●	●
T8H*	T8V*	●		●	1-color LED								●	●	●	●	●
T1H*	T1V*	●		●	1-color LED	2-wire					●	●	●	●	●	●	●
T2H*	T2V*		●	3-wire		●	●	●	●	●	●	●	●	●	●		
T3H*	T3V*		●	1-color LED Bending resistant lead wire 1-color LED (PNP output) (made to order)		2-wire	●	●	●	●	●	●	●	●	●	●	
T2HR3	T2VR3		●			3-wire	●	●	●	●	●	●	●	●	●	●	
T3PH*	T3PV*	Proximity			●	2-wire	●	●	●	●	●	●	●	●	●	●	
T2WH*	T2WV*				●	3-wire	●	●	●	●	●	●	●	●	●	●	
T3WH*	T3WV*			●	2-wire	●	●	●	●	●	●	●	●	●	●		
T2YD*	-			●	2-wire			●	●	●	●	●	●	●	●	●	
T2YDT*	-		●	2-wire			●	●	●	●	●	●	●	●	●	●	
T2JH*	T2JV*		●	2-wire			●	●	●	●	●	●	●	●	●	●	
* Lead wire length																	
Blank		1 m (standard)															
3		3 m (option)															
5		5 m (option)															
*8																	
F Switch quantity																	
R		1 on rod side															
H		1 on head side															
D		2															
G Option																	
Blank		Rod end female thread															
N		Rod end male thread															
H Mounting bracket																	
Blank		Without mounting bracket															
LB		Axial foot (made to order)															
CB		Clevis bracket (pin and snap ring attached)															
FA		Rod side flange (made to order)															
FB		Head side flange															
I Accessory (available when rod end male thread "N" is selected)																	
I		Rod eye															
Y		Rod clevis (pin and snap ring attached)															

SCP03	Long service life cylinder
CMK2	Environment-resistant cylinder
SCM	Linear Slide Hand
SSD2	Low-profile long stroke hand
MDC2	Wife Parallel Hand
MSD	Chuck
MSDG-L	Booster
SMG	Air
LCR	Compatible with rechargeable batteries
LCG	Supports food mfg. processes
STM	
STR2	
LSH	
LSHL	
SCP03	
CMK2	
SCM	
SCG	
SSD2	
STG	

SSD2-G-FP1-HP1 Series

Compatible with rechargeable batteries

Supports food mfg. processes

Long service life cylinder

Environment-resistant cylinder

Linear Slide Hand

Low-profile long stroke hand

Wide Parallel Hand

Chuck

Air Booster

SCPD3

CMK2

SCM

SSD2

MDC2

MSD

MSDG-L

SMG

LCR

LCG

STM

STG

STR2

SCP3

CMK2

SCM

SCG

SSD2

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SCP3

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1: Less than 5 mm for 1-color LED switch, 2-color LED, off-delay, AC magnetic field proof, T1, T8* switches less than 10mm stroke is not available. Refer to SSD2-G-HP1 Series on page 66 for the min. stroke length with switch.

*2: The total length when using a custom stroke is the same as that when using the next longer standard stroke.

How to order mounting brackets

Bore size (mm)	ø12	ø16	ø20	ø25	ø32	ø40	ø50
Mounting bracket							
Foot (LB)						SSD2-LB-40	SSD2-LB-50
Flange (FA/FB)						SSD2-FA-40	SSD2-FA-50
Clevis bracket (CB)	SSD2-CB-12-FP1	SSD2-CB-16-FP1	SSD2-CB-20-FP1	SSD2-CB-25-FP1	SSD2-CB-32-FP1	SSD2-CB-40-FP1	SSD2-CB-50-FP1

Bore size (mm)	ø63	ø80	ø100
Mounting bracket			
Foot (LB)	SSD2-LB-63	SSD2-LB-80	SSD2-LB-100
Flange (FA/FB)	SSD2-FA-63	SSD2-FA-80	SSD2-FA-100
Clevis bracket (CB)	SSD2-CB-63-FP1	SSD2-CB-80-FP1	SSD2-CB-100-FP1

*1: The foot mounting bracket is provided as 2 pcs./set.

*2: The ø12 to ø32 structure does not permit retrofitting of the foot bracket (LB) or flange bracket (FA) on the rod side. Contact CKD for details.