Series variation

Compact cylinder SSD Series

* Refer to page 1084 for high load and type with strong magnetic field proof switch.

Variation	Model No. JIS symbol	Bore size (mm)	Standard stroke (mm)						
			5	10	15	20	25	30	40
Double acting/single rod with switch 2-color LED switch	SSD SSD-L SSD-L1	ø12/ø16	●	●	●	●	●	●	
		ø20/ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
		ø125/ø140/ø160		●		●		●	●
Single acting/push with switch 2-color LED switch	SSD-X SSD-XL SSD-XL1	ø12/ø16/ø20	●	●					
		ø25/ø32	●	●					
		ø40/ø50		●		●			
Single acting/pull with switch 2-color LED switch	SSD-Y SSD-YL SSD-YL1	ø12/ø16/ø20	●	●					
		ø25/ø32	●	●					
		ø40/ø50		●		●			
Double acting/ heat resistant	SSD-T	ø12/ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/ with heat resistant cylinder switch	SSD-T1L	ø16		●	●	●	●	●	
		ø20			●	●	●	●	
		ø25			●	●	●	●	●
		ø32/ø40/ø50		●	●	●	●	●	●
		ø63		●		●		●	●
Double acting/ position locking with switch	SSD-Q SSD-QL	ø16/ø20	●	●	●	●	●	●	●
		ø25/ø32/ø40/ø50		●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●
Double acting/fine speed with switch 2-color LED switch	SSD-F SSD-LF SSD-L1F	ø12/ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/low speed with switch 2-color LED switch	SSD-O SSD-OL SSD-OL1	ø12/ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/ double rod with switch	SSD-D SSD-DL	ø12/ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
		ø125/ø140/ø160		●		●		●	●
Double acting/ back to back with switch	SSD-B SSD-BL SSD-BL1 (Indicator	ø12/ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/2-stage with switch	SSD-W SSD-WL SSD-WL1 (Indicator	ø12/ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/rotation-stop with switch 2-color LED switch	SSD-M SSD-ML SSD-ML1	ø12/ø16/ø20/ø25	●	●	●	●	●	●	
		ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63	●	●		●		●	●
Double acting/ coolant proof with switch	SSD-G2/G3 SSD-G2L/G3L	ø16/ø20	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/ anti-spatter adherence with switch	SSD-G1/G4 SSD-G1L/G4L	ø25/ø32 ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/double rod/ anti-spatter adherence with switch	SSD-DG1/DG4 SSD-DG1L/DG4L	ø25/ø32 ø40/ø50	●	●	●	●	●	●	●
		ø63/ø80/ø100	●	●		●		●	●
Double acting/ single rod with switch	SSD-G5 SSD-G5L	ø20/ø25/ø32 ø40/ø50	○	○	○	○	○	○	○
		ø63/ø80/ø100	○	○		○		○	○

●: Standard, ◎: Option, ○: Made to order, △: Available depending on conditions (contact CKD.) ; : Not available

Standard stroke (mm)						Min. stroke (mm)	Max. stroke (mm)	Custom stroke (per mm)	Option			Mounting bracket						Switch	Page
									Rod end male thread	Dedicated unit for custom stroke	Copper and PTFE free	Axial foot	Axial foot (compact)	Clevis bracket	Clevis bracket (compact)	Rod side flange	Head side flange		
50	60	70	80	90	100				N	S	P6	LB	LB2	CB	CB2	FA	FB		
						1	30	1	◎	◎	●	◎	◎	◎	◎	◎	◎	◎	1094
●							50		◎	◎	●	◎	◎	◎	◎	◎	◎		
●							50		◎	◎	◎	◎	◎	◎	◎	◎	◎		
●	●	●	●	●	●		300		◎	●	○	◎	△	◎	△	△	△		
						5	10	-	◎		●	◎	◎	◎	◎	◎	◎	◎	1126
							10		◎		●	◎	◎	◎	◎	◎	◎		
							20		◎		●	◎	◎	◎	◎	◎	◎		
						5	10	-	◎		●	◎	◎	◎	◎	◎	◎	◎	1126
							10		◎		●	◎	◎	◎	◎	◎	◎		
							20		◎		●	◎	◎	◎	◎	◎	◎		
						1	30	1	◎			◎	◎	◎	◎	◎	◎	◎	1138
●							50		◎			◎	◎	◎	◎	◎	◎		
●							50		◎			◎	◎	◎	◎	◎	◎		
						10	30	1	◎			◎	◎	◎	◎	◎	◎	◎	1142
									◎			◎	◎	◎	◎	◎	◎		
						15			◎			◎	◎	◎	◎	◎	◎		
●							50		◎			◎	◎	◎	◎	◎	◎		
●						10			◎			◎	◎	◎	◎	◎	◎		
●									◎			◎	◎	◎	◎	◎	◎		
●						5	100	1	◎		○	◎	◎	◎	◎	◎	◎	◎	1160
●	●	●	●	●	●		200		◎		○	◎	◎	◎	◎	◎	◎		
●	●	●	●	●	●		300		◎		○	◎	◎	◎	◎	◎	◎		
						1	30	1	◎			◎	◎	◎	◎	◎	◎	◎	1172
●							50		◎			◎	◎	◎	◎	◎	◎		
●							50		◎			◎	◎	◎	◎	◎	◎		
						1	30	1	◎			◎	◎	◎	◎	◎	◎	◎	1178
●							50		◎			◎	◎	◎	◎	◎	◎		
●							50		◎			◎	◎	◎	◎	◎	◎		
						1	30	1	◎		●	◎	◎				◎		1188
●							50		◎		●	◎	◎				◎		
●							50		◎		◎	◎	◎				◎		
●	●	●	●	●	●	10	300		◎		○	◎	△				△		
						1	30	1	◎		●								1200
●							50		◎		●								
●							50		◎		○								
						1	30	1	◎		●								1210
●							50		◎		●								
●							50		◎		○								
						1	30	1	◎		●	◎	◎	◎	◎	◎	◎	◎	1220
●							50		◎			◎	◎	◎	◎	◎	◎		
●							50		◎			◎	◎	◎	◎	◎	◎		
						1	30	1	◎		○	△*1	△*1	◎	◎	△*1	◎	◎	1230
●							50		◎		○	△*1	△*1	◎	◎	△*1	◎		
●							50		◎		○	◎	◎	◎	◎	◎	◎		
●						1	50	1	◎			◎	◎	◎	◎	◎	◎	◎	1246
●							50		◎			◎	◎	◎	◎	◎	◎		
●						1	50	1	◎			◎	◎			◎		◎	1264
●							50		◎			◎	◎			◎			
○						1	50	1	○			○	○	○	○	○	○	○	1272
○							50		○			○	○	○	○	○	○		

*1: The structure of ø16 to ø25 does not permit retrofitting of the foot bracket (LB, LB2) or flange bracket (FA) on the rod side. Assembly before shipment is available as made to order.

[High load]

Variation	Model No. JIS symbol	Bore size (mm)	Standard stroke(mm) 5	10	15	20	25	30	40	50	60
Double acting/ single rod/ high load with switch	SSD-K SSD-KL	ø12/ø16	●	●	●	●	●	●	●	●	
		ø20	●	●	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50		●	●	●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●	●	●
Double acting/ rubber-air cushioned	SSD-K-*C	ø20	●	●	●	●	●	●	●	●	●
		ø25/ø32/ø40/ø50		●	●	●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●	●	●
Double acting/ high load/fine speed with switch	SSD-KF SSD-KLF	ø12/ø16/ø20	●	●	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50		●	●	●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●	●	●
Double acting/ high load/low friction with switch	SSD-KU SSD-KUL	ø20	●	●	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50		●	●	●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●	●	●
Double acting/high load/ coolant proof with switch	SSD-KG2/KG3 SSD-KG2L/KG3L	ø16/ø20	●	●	●	●	●	●	●	●	
		ø25/ø32/ø40/ø50		●	●	●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●	●	●
Double acting/high load/ anti-spatter adherence with switch	SSD-KG1/KG4 SSD-KG1L/KG4L	ø25/ø32 ø40/ø50		●	●	●	●	●	●	●	●
		ø63/ø80/ø100		●		●		●	●	●	●
Double acting/high load/ environment-resistant scraper with switch	SSD-KG5 SSD-KG5L	ø20	○	○	○	○	○	○	○	○	
		ø25/ø32/ø40/ø50		○	○	○	○	○	○	○	○
		ø63/ø80/ø100		○		○		○	○	○	○

* The length measuring function (cylinder with length measuring sensor, super compact LN-A* Series) is also available.
Refer to “Pneumatic Cylinders II” (No.CB-030SA) for details.

[With strong magnetic field proof switch]

Double acting/single rod with strong magnetic field proof switch	SSD-L4	ø40, ø50				●		●	●	●	
		ø63, ø80, ø100				●		●	●	●	
Double acting/single rod/ strong magnetic field proof with switch/coil scraper	SSD-G1L4	ø40, ø50				●		●	●	●	
		ø63, ø80, ø100				●		●	●	●	
Double acting/high load/ strong magnetic field proof with switch	SSD-KL4	ø40, ø50				●		●	●	●	●
		ø63, ø80, ø100				●		●	●	●	●
Double acting/high load with strong magnetic field proof switch with coil scraper	SSD-KG1L4	ø40, ø50				●		●	●	●	●
		ø63, ø80, ø100				●		●	●	●	●

●: Standard, ◎: Option, ○: Made to order, : Not available

Standard stroke (mm)				Min. stroke (mm)	Max. stroke (mm)	Custom stroke (per mm)	Option			Mounting bracket						Switch	Page
70	80	90	100				N Rod end male thread	S Dedicated unit for custom stroke	P6 Copper and PTFE free	LB Axial foot type	LB2 Axial foot type(Compact)	CB Clevis bracket	CB2 Clevis bracket(Compact)	FA Rod side flange	FB Head side flange		
				1	100	1	◎	◎	●	◎	◎	◎	◎	◎	◎	◎	1116
					200		◎	◎	◎	◎	◎	◎	◎	◎	◎		
●	●	●	●		300		◎	◎	◎	◎	◎	◎	◎	◎	◎		
●	●	●	●		300		◎	◎	◎	◎	◎	◎	◎	◎	◎		
●	●	●	●	5	200	1	◎			◎	◎	◎	◎	◎	◎	◎	1150
●	●	●	●		300		◎		○	◎	◎	◎	◎	◎	◎		
●	●	●	●	10	300		◎		○	◎	◎	◎	◎	◎	◎		
				1	100	1	◎			◎	◎	◎	◎	◎	◎	◎	1172
●	●	●	●		150		◎			◎	◎	◎	◎	◎	◎		
●	●	●	●		200		◎			◎	◎	◎	◎	◎	◎		
				5	200	1	◎			◎	◎	◎	◎	◎	◎	◎	1184
●	●	●	●		300		◎			◎	◎	◎	◎	◎	◎		
●	●	●	●		300		◎			◎	◎	◎	◎	◎	◎		
				1	100	1	◎		○	△*1	△*1	◎	◎	△*1	◎	◎	1238
●	●	●	●		150		◎		○	△*1	△*1	◎	◎	△*1	◎		
●	●	●	●		200		◎		○	◎	◎	◎	◎	◎	◎		
●	●	●	●	1	300	1	◎			◎	◎	◎	◎	◎	◎	◎	1254
●	●	●	●		300		◎			◎	◎	◎	◎	◎	◎		
				1	200	1	○			○	○	○	○	○	○	○	1280
○	○	○	○		300		○			○	○	○	○	○	○		
○	○	○	○		300		○				○	○	○	○	○		

*1: The structure of ø16 to ø25 does not permit retrofitting of the foot bracket (LB, LB2) or flange bracket (FA) on the rod side. Assembly before shipment is available as made to order.

				20	50	1	◎		○	◎	◎	◎	◎	◎	◎	◎	1288
							◎		○	◎	◎	◎	◎	◎	◎		
				20	50	1	◎			◎	◎	◎	◎	◎	◎	◎	1294
							◎			◎	◎	◎	◎	◎	◎		
●	●	●	●	20	150	1	◎		○	◎	◎	◎	◎	◎	◎	◎	1300
●	●	●	●		200		◎		○	◎	◎	◎	◎	◎	◎		
●	●	●	●	20	150	1	◎			◎	◎	◎	◎	◎	◎	◎	1306
●	●	●	●		200		◎			◎	◎	◎	◎	◎	◎		

Variation and option combination selection table

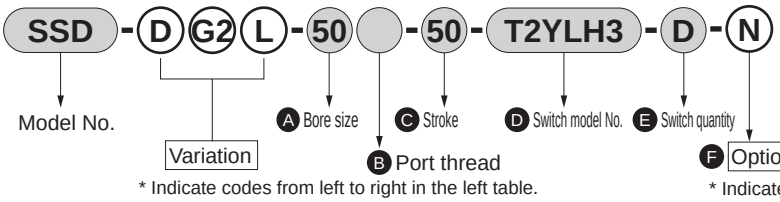
SSD (ø100 or less)

◎: Option
○: Available (made-to-order product)
△: Available depending on conditions (Contact CKD.)
x: Not available

Category		Category	Variation																							Port thread			Option					
			Double acting single rod	Single acting push	Single acting pull	Double acting double rod	Back to back	Two-stage	With position locking	Rotation-stop	Heat resistant (120°C)	Low speed	With rubber scraper	With metal scraper	With coolant proof scraper (NBR)	With coolant proof scraper (FKM)	Anti-spatter adherence	With environment-resistant scraper	With cylinder switch	With cylinder switch (for strong magnetic field proof)	With cylinder switch (for heat resistance)	Fine speed	NPT(ø32 to ø100)	G(ø32 to ø100)		Piston rod material stainless steel	Piston rod end male thread	Copper and PTFE free	Clean-room specifications (exhaust port)	Clean-room specifications (vacuum treatment)	Specify piston rod end form
		Code	None	X	Y	D	B	W	Q	M	T	O	G	G1	G2	G3	G4	G5	L	L4	T1L	F	N	G		M	N	P6	P7	P71	N**
Variation	Double acting single rod	Blank																					○	○		◎	◎	◎	◎	◎	○
	Single acting push	X			x	△	○	x	x	△	○	x	△	△	△	△	△	△	◎	○	○	x	○	○		◎	◎	*5	x	x	○
	Single acting pull	Y				x	○	x	x	△	○	x	△	△	△	△	△	△	◎	○	○	x	○	○		◎	◎	*5	x	x	△
	Double acting double rod	D					x	x	○	○	○	○	○	○	○	○	○	○	◎	○	○	○	○	○		◎	◎	*6	○	○	○
	Back to back	B						x	○	○	○	○	○	○	○	○	○	○	◎	○	○	○	○	○		◎	◎	*7	○	○	○
	Two-stage	W							x	○	○	○	△	△	△	△	△	△	◎	○	○	○	○	○		◎	◎	*7	○	△	○
	With position locking	Q								△	x	△	△	△	△	△	△	△	◎	○	x	△	○	○		○	◎	○	△	△	○
	Rotation-stop	M									x	○	x	x	x	x	x	x	◎	○	x	○	○	○		*10	◎	*1	*10	*10	○
	Heat resistance (120°C)	T										x	x	○	x	x	x	x	x	x	*4	x	○	○		◎	◎	x	x	x	○
	Low speed	O											x	x	x	x	x	x	◎	○	x	x	○	○		◎	◎	x	△	△	○
	With rubber scraper	G												x	x	x	x	x	○	○	x	x	○	○		○	○	○	x	x	○
	With metal scraper	G1													x	x	*7	x	◎	○	○	x	○	○		○	○	x	x	x	○
	With coolant proof scraper (NBR)	G2														x	x	x	◎	x	x	x	○	○		*2	◎	○	x	x	○
	With coolant proof scraper (FKM)	G3															x	x	◎	x	x	x	○	○		*2	◎	○	x	x	○
	Anti-spatter adherence	G4																x	○	○	x	x	○	○		○	○	x	x	x	○
	With environment-resistant scraper	G5																	○	○	x	x	○	○		○	○	○	x	x	○
	With cylinder switch	L																		x	x	◎	○	○		◎	◎	◎	◎	◎	○
	With cylinder switch (strong magnetic field proof)	L4																			x	○	○	○		○	◎	○	○	○	○
	With cylinder switch (for heat resistance)	T1L																				x	○	○		○	◎	x	x	x	○
	Fine speed	F																					○	○		○	◎	x	○	○	○
Port thread	NPT(ø32 to ø100)	N																						x		x	○	○	○	○	○
	G(ø32 to ø100)	G																								x	○	○	○	○	○
Option	Piston rod material SS (with C-ring)	M																									◎	○	*3	*3	○
	Piston rod end male thread	N																										◎	◎	◎	x
	Copper and PTFE free	P6																											x	x	○
	Clean-room specifications (exhaust port)	P7																												x	○
	Clean-room specifications (vacuum treatment)	P71																													○
	Specify piston rod end form	N**																													
Accessory	Cylinder switch	Separate list	◎	◎	◎	◎	◎	◎	◎	◎	x	◎	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	◎	◎	○
	Mounting bracket LB with bolt	LB	◎	◎	◎	◎	△	△	◎	◎	◎	◎	○	◎	*9	*9	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	△	△	○
	Mounting bracket LB2 with bolt	LB2	◎	◎	◎	◎	△	△	◎	◎	◎	◎	○	◎	*9	*9	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	△	△	○
	Mounting bracket CB with bolt/pin	CB	◎	◎	◎	x	x	△	◎	◎	◎	◎	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	x	x	○
	Mounting bracket CB2 with bolt/pin	CB2	◎	◎	◎	x	x	△	◎	◎	◎	◎	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	x	x	○
	Rod side flange	FA	◎	◎	◎	◎	○	○	◎	◎	◎	◎	○	◎	*9	*9	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	△	△	○
	Head side flange	FB	◎	◎	◎	x	x	x	◎	◎	◎	◎	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		◎	◎	◎	△	△	○
	Mounting bolt	Separate list	◎	◎	◎	◎	x	x	◎	◎	◎	◎	○	◎	△	△	◎	◎	◎	◎	◎	◎	○	○		△	◎	◎	△	△	○

Caution
Consult with CKD for dimensions when variations/options are combined.
*1 : P6 is standard only for ø12 to ø25. ø32 to ø63 are not available.
*2 : When "G2" or "G3" is selected, the material for the piston rod and C-ring is stainless steel. M code is not required.
*3 : When "P7" or "P71" female thread is selected, the material for the piston rod and C-ring is stainless steel. M code is not required.
For stainless steel male thread rod nut, combination with M is required.
*4 : "T1L" has heat resistant specifications.
*5 : P6 specifications even without code.
*6 : P6 is standard for ø12 to ø50 and optional for ø63 to ø100.
*7 : P6 is standard for ø12 to ø50 and available as made to order for ø63 to ø80.
*8 : G4 includes metal scraper.
*9 : The structure of ø16 to ø25 does not permit retrofitting of the foot bracket (LB, LB2) or flange bracket (FA) on the rod side. Assembly before shipment is available as made to order.
*10 : ø12 to ø25 are options and ø32 to ø63 are made-to-order products.

[Example of model No.]



* Indicate codes from left to right in the left table.

* Indicate codes from left to right in the left table.

Model No.: Compact cylinder
Variation: Double rod/coolant proof scraper/with switch

- A Bore size : ø50 mm
- B Port thread : Rc thread
- C Stroke : 50 mm
- D Switch model No. : Coolant proof switch, 3 m lead wire
- E Switch quantity : 2
- F Option : Rod end male thread

*1: The back to back includes two cylinders. Specify the model No. as below when ordering variation.
For S1 variations only, insert the variation code before the stroke of S1.
(Example) SSD-B-32-M10-30: Only S1 is rotation-stop.

For S2 variations only, insert the variation code before the stroke of S2.
(Example) SSD-B-32-10-M30: Only S2 is rotation-stop.

When ordering the same variation for S1 and S2, insert the variation code before the bore size.
(Example) SSD-MB-32-10-30: Both S1 and S2 are rotation-stop.

Variation and option combination selection table

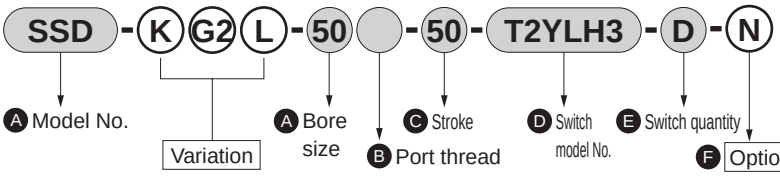
High load SSD-K (ø100 or less)

◎: Option
○: Available (made-to-order product)
△: Available depending on conditions (Contact CKD.)
x: Not available

Category		Category	Variation																				Port thread		Cushion			Option					
			Double acting/high load	Double acting double rod	Back to back	Two-stage	Rotation-stop	Heat resistant (120°C)	Low speed	Low friction	With rubber scraper	With metal scraper	With coolant proof scraper (NBR)	With coolant proof scraper (FKM)	Anti-spatter adherence	With cylinder switch	With cylinder switch (strong magnetic field proof)	With cylinder switch (for heat resistance)	Fine speed	NPT(ø32 to ø100)	G(ø32 to ø100)		Rubber-air cushioned			Piston rod material stainless steel	Piston rod end male thread	Copper and PTFE free	Clean-room specifications (exhaust port)	Clean-room specifications (vacuum treatment)	Specify piston rod end form
		Code	K	D	B	W	M	T	0	U	G	G1	G2	G3	G4	L	L4	T1L	F	N	G		C			M	N	P6	P7	P71	N**
Variation	Double acting/high load	K		○	○	○	○	○	○	◎	○	◎	◎	◎	◎	◎	◎	○	○	○	○		◎			◎	◎	◎	◎	◎	○
	Double acting double rod	D			x	x	○	○	○	x	○	○	○	○	○	○	○	○	○	○	○		○			○	○	○	○	○	○
	Back to back	B				x	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○			○	○	○	○	○	○
	Two-stage	W					○	○	○	x	△	△	△	△	△	○	○	○	○	○	○		x			○	○	○	○	△	○
	Rotation-stop	M						x	○	x	x	x	x	x	x	○	○	x	○	○	○		○			*10	○	*1	*10	*10	○
	Heat resistant (120°C)	T							x	x	x	○	x	x	x	x	x	*4	x	○	○		x			○	○	x	x	x	○
	Low speed	O								x	x	x	x	x	x	○	○	x	x	○	○		○			○	○	x	○	○	○
	Low friction	U										x	x	x	x	◎	◎	x	x	○	○		x			○	◎	x	x	○	○
	With rubber scraper	G										x	x	x	x	○	○	x	x	○	○		x			○	○	○	x	x	○
	With metal scraper	G1											x	x	*8	◎	○	○	○	○	○		○			○	○	x	x	x	○
	With coolant proof scraper (NBR)	G2												x	x	◎	x	x	x	○	○		○			*2	◎	○	x	x	○
	With coolant proof scraper (FKM)	G3													x	◎	x	x	x	○	○		x			*2	◎	○	x	x	○
	Anti-spatter adherence	G4														x	x	x	x	○	○		○			○	○	x	x	x	○
	With cylinder switch	L															x	x	◎	○	○		◎			◎	◎	◎	○	○	○
	With cylinder switch (strong magnetic field proof)	L4																x	○	○	○		○			○	○	○	○	○	○
	With cylinder switch (for heat resistance)	T1L																	x	○	○		x			○	○	x	x	x	○
	Fine speed	F																		○	○		○			○	○	x	○	○	○
Port thread	NPT(ø32 to ø100)	N																			x		○			○	○	○	○	○	○
	G(ø32 to ø100)	G																					○			○	○	○	○	○	○
Cushion	Rubber-air cushioned	C																								○	◎	○	○	○	○
Option	Piston rod material stainless steel	M																									◎	○	*3	*3	○
	Piston rod end male thread	N																										◎	○	○	x
	Copper and PTFE free	P6																											x	x	○
	Clean-room specifications (exhaust port)	P7																												x	○
	Clean-room specifications (vacuum treatment)	P71																													○
	Specify piston rod end form	N**																													
Accessory	Cylinder switch	Separate list	◎	○	○	○	○	x	○	◎	○	◎	◎	◎	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	○	○	○
	Mounting bracket LB with bolt	LB	◎	○	△	△	○	○	○	◎	○	◎	*9	*9	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	△	△	○
	Mounting bracket LB2 with bolt	LB2	◎	○	△	△	○	○	○	◎	○	◎	*9	*9	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	△	△	○
	Mounting bracket CB with bolt/pin	CB	◎	x	x	△	○	○	○	◎	○	◎	◎	◎	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	x	x	○
	Mounting bracket CB2 with bolt/pin	CB2	◎	x	x	△	○	○	○	◎	○	◎	◎	◎	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	x	x	○
	Rod side flange	FA	◎	○	○	○	○	○	○	◎	○	◎	*9	*9	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	△	△	○
	Head side flange	FB	◎	x	x	x	○	○	○	◎	○	◎	◎	◎	◎	◎	◎	○	◎	○	○		◎			◎	◎	◎	△	△	○
	Mounting bolt	Separate list	◎	○	x	x	○	○	○	◎	○	◎	△	◎	◎	◎	◎	○	◎	○	○		◎			△	◎	◎	△	△	○

Caution
Consult with CKD for dimensions when variations/options are combined.
*1 : Only ø12 to 25 are available. ø32 to ø63 are not available.
*2 : When "G2" or "G3" is selected, the material for the piston rod and C-ring is stainless steel. M code is not required.
*3 : When "P7" or "P71" female thread is selected, the material for the piston rod and C-ring is stainless steel. M code is not required.
For stainless steel male thread rod nut, combination with M is required.
*4 : "T1L" has heat resistant specifications.
*5 : Heat resistance is without rubber cushion.
*6 : If the standard stroke is exceeded, the double rod is available as a standard double rod instead of a high load.
*7 : The 2-stage is available as a high load only for the S1 side cylinder.
*8 : G4 includes metal scraper.
*9 : The structure of ø16 to ø25 does not permit retrofitting of the foot bracket (LB, LB2) or flange bracket (FA) on the rod side. Assembly before shipment is available as made to order.
*10 : ø12 to ø25 are options and ø32 to ø63 are made-to-order products.

[Example of model No.]



* Indicate codes from left to right in the left table.
* For the fine speed, insert "F" after with/without switch (L).

* Indicate codes from left to right in the left table.

Model No.: Compact cylinder
Variation: High load/coolant proof scraper/with switch

- A Bore size : ø50 mm
- B Port thread : Rc thread
- C Stroke : 50 mm
- D Switch model No. : Coolant proof switch, 3 m lead wire
- E Switch quantity : 2
- F Option : Rod end male thread

*1: The back to back includes two cylinders. Specify the model No. as below when ordering variation.
For S1 variations only, insert the variation code before the stroke of S1.
(Example) SSD-B-32- K100-30: Only S1 is high load.

For S2 variations only, insert the variation code before the stroke of S2.
(Example) SSD-B-32-30- K100: Only S2 is high load.

When ordering the same variation for S1 and S2, insert the variation code before the bore size.
(Example) SSD- KB-32-30-100: Both S1 and S2 are high load.

Variation and option combination selection table

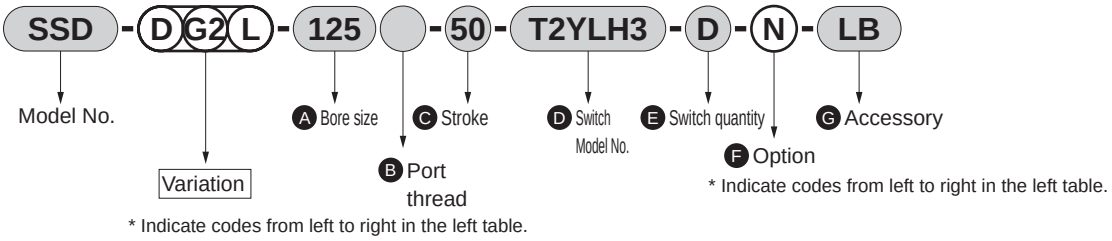
SSD (ø125 or more)

◎: Option
○: Available (made-to-order product)
△: Available depending on conditions (Contact CKD.)
x: Not available

Category		Category	Variation												Port thread			Option							
			Double acting single rod	Double acting double rod	Back to back	Two-stage	Heat resistant (120°C)	Low speed	With rubber scraper	With metal scraper	With coolant proof scraper (NBR)	With coolant proof scraper (FKM)	With cylinder switch	Fine speed	NPT	G		Piston rod material stainless steel	Piston rod/C-ring material stainless steel	Piston rod end male thread	Copper and PTFE free	Clean-room specifications (exhaust port)	Clean-room specifications (vacuum treatment)	Specify piston rod end form
		Code	None	D	B	W	T	O	G	G1	G2	G3	L	F	N	G		M	M1	N	P6	P7	P71	N**
Variation	Double acting single rod	Blank													○	○		○	○	◎	○	○	○	○
	Double acting double rod	D			x	x	○	○	○	○	○	○	◎	○	○	○		○	○	◎	○	○	○	○
	Back to back	B				x	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○	○	○
	Two-stage	W					○	○	△	△	△	△	○	○	○	○		○	○	○	○	○	△	○
	Heat resistant (120°C)	T						x	x	○	x	x	x	x	○	○		○	○	○	x	x	x	○
	Low speed	O							x	x	x	x	○	x	○	○		○	○	○	x	○	○	○
	With rubber scraper	G								x	x	x	○	x	○	○		○	○	○	○	x	x	○
	With metal scraper	G1									x	x	○	x	○	○		○	○	○	x	x	x	○
	With coolant proof scraper (NBR)	G2										x	○	x	○	○		*1	○	○	○	x	x	○
	With coolant proof scraper (FKM)	G3											○	x	○	○		*1	○	○	○	x	x	○
	With cylinder switch	L												○	○	○		○	○	◎	○	○	○	○
	Fine speed	F													○	○		○	○	○	x	○	○	○
Port thread	NPT	N														x		○	○	○	○	○	○	○
	G	G																○	○	○	○	○	○	○
Option	Piston rod material stainless steel	M																	x	○	○	*2	*2	○
	Piston rod/C-ring material stainless steel	M1																		○	○	○	○	○
	Piston rod end male thread	N																			○	○	○	x
	Copper and PTFE free	P6																				x	x	○
	Clean-room specifications (exhaust port)	P7																					x	○
	Clean-room specifications (vacuum treatment)	P71																						○
	Specify piston rod end form	N**																						
Accessory	Cylinder switch	Listed separately	◎	◎	○	○	x	○	○	○	○	○	◎	○	○	○		○	○	◎	○	○	○	○
	Mounting bracket LB with bolt	LB	◎	○	△	△	○	○	○	○	△	△	◎	○	○	○		○	○	◎	○	△	△	○
	Mounting bracket CB with bolt/pin	CB	◎	x	x	△	○	○	○	○	△	△	◎	○	○	○		○	○	◎	○	x	x	○
	Mounting bolt	Listed separately	◎	○	x	x	○	○	○	○	△	△	◎	○	○	○		△	△	◎	○	△	△	○

Caution
Consult with CKD for dimensions when variations/options are combined.
*1: When “G2” or “G3” is selected, the material for the piston rod is stainless steel. M code is not required.
*2: When “P7” or “P71” female thread is selected, the material for the piston rod is stainless steel. M code is not required.
For stainless steel male thread rod nut, combination with M is required.

[Example of model No.]



Model No.: Compact cylinder
● Variation: Double rod/coolant proof scraper/with switch
Ⓐ Bore size : ø125 mm
Ⓑ Port thread : Rc thread
Ⓒ Stroke : 50 mm
Ⓓ Switch model No. : Proximity coolant proof switch, 3 m lead wire
Ⓔ Switch quantity : 2
Ⓕ Option : Rod end male thread
Ⓖ Accessory : Axial foot

*1: The back to back includes two cylinders. Specify the model No. as below when ordering variation.
For S1 variations only, insert the variation code before the stroke of S1.
(Example) SSD-B-125-010-30: Only S1 is low speed.

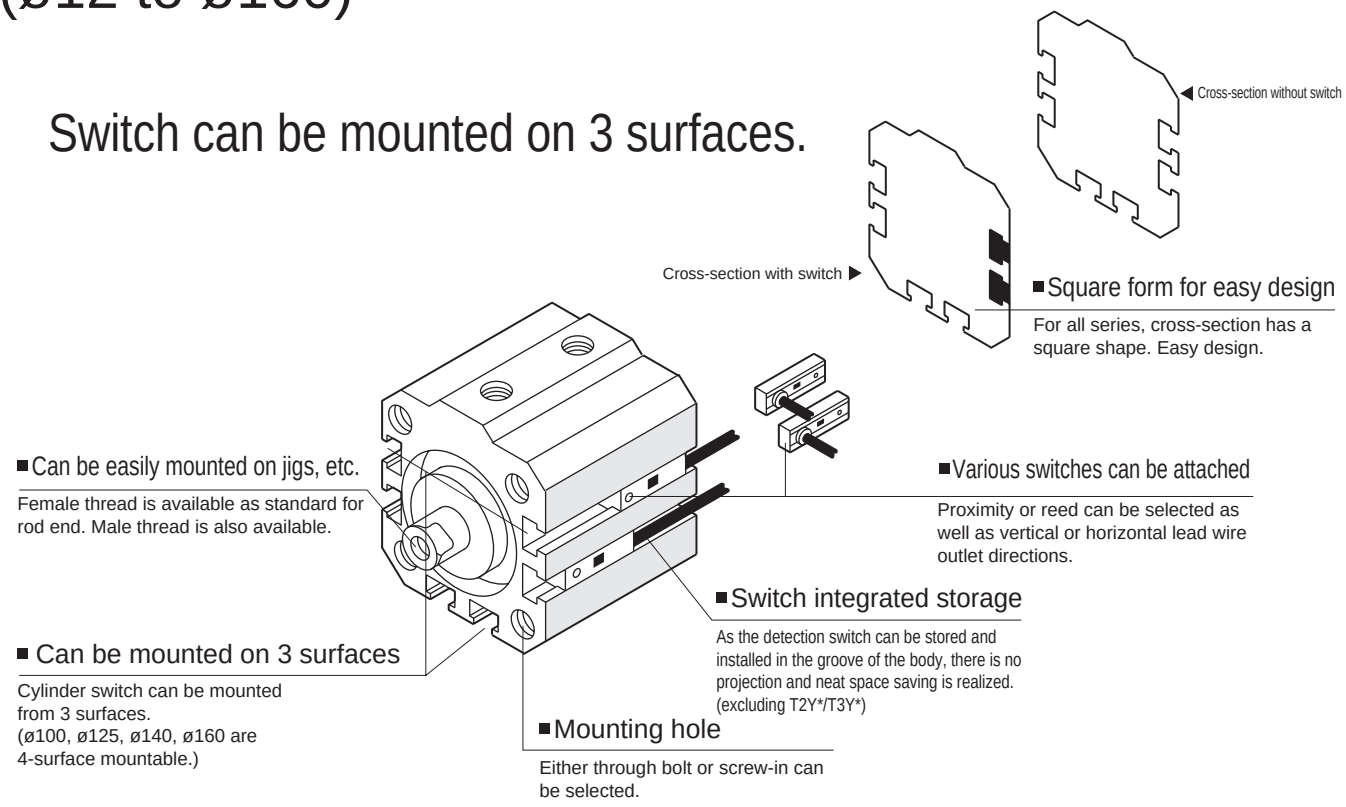
For S2 variations only, insert the variation code before the stroke of S2.
(Example) SSD-B-125-10-030: Only S2 is low speed.

When ordering the same variation for S1 and S2, insert the variation code before the bore size.
(Example) SSD-B0-125-10-30: Both S1 and S2 are low speed.

Switch integrated design

Miniature switch is stored neatly in the body.
Super compact cylinder which realizes space saving and compact features.
(ø12 to ø160)

Switch can be mounted on 3 surfaces.



*Mounting of cylinder switch on 4 surfaces is supported.
Refer to page 1318 for details.