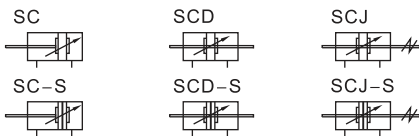


Standard cylinder(Tie-rod)

SC Series—Big bore size type



Symbol



Product feature

- ISO6430 standard cylinder.
- The seal of piston adopts heterogeneous two way seal structure. It's dimension is tight and it has the function of grease reservation.
- It is tie rod cylinder. The cylinder barrel and front/rear cap is jointed by tie rods with high reliability.
- Compared with ISO15552 standard cylinder, SC series cylinder with the same bore size is shorter.
- The buffer adjustment of cylinder is smooth and steady.
- Cylinders and mounting accessories with several specifications are optional.
- The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150°C.

Specification

Bore size(mm)	125	160	200	250
Acting type	Double acting			
Fluid	Air(to be filtered by 40 μ m filter element)			
Mounting	Basic FA FB CA CB LB TC TCM1			
g	SCD、SCJ Basic FA LB TC TCM1			
Operating pressure	0.15~1.0MPa(22~145psi)(1.5~10.0bar)			
Proof pressure	1.5MPa(215psi)(15bar)			
Temperature °C	-20~70			
Speed range mm/s	30~800			
Stroke tolerance	0~250	251~1000	1001~1500	1501~2000
Cushion type	Variable cushion			
Adjustable cushion stroke	28	29	33	40
Port size [Note1]	1/2"	3/4"		1"

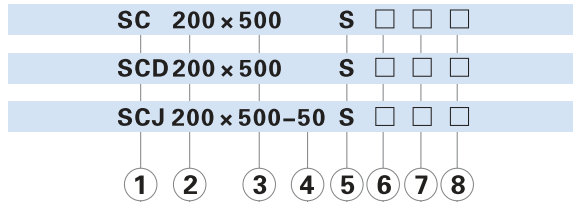
[Note1] PT thread, G thread and NPT thread are available.
Add) Refer to P313 for detail of sensor switch.

Stroke

Bore size (mm)	Standard stroke (mm)										Max.std stroke	Max. stroke											
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
160	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
200	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
250	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000

[Note] Please contact the company for other special strokes.

Ordering code



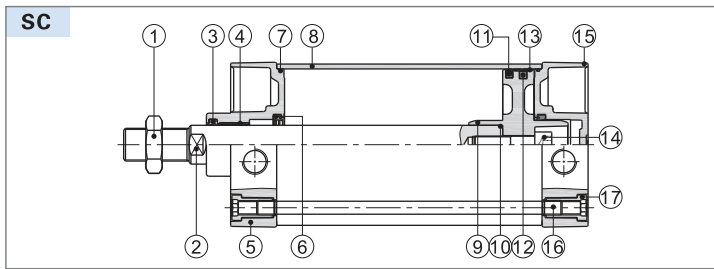
① Model	② Bore size	③ Stroke	④ Adjustable stroke	⑤ Magnet	⑥ Mounting type[Note1]	⑦ Seals Material	⑧ Thread type
SC: Double acting type	125 160 200 250	Refer to stroke table for details	No this code	Blank: Without magnet S: With magnet	Blank	Blank: NBR H: Viton	Blank: PT G: G T: NPT
SCD: Double rod type					LB		
SCJ: Adjustable stroke type					FA		
			10 20 30 40 50 75 100		FB		
					CA		
					CB		
					TC		
					Blank		
					LB		
					FA		
					TC		

[Note1] Please refer to page 51~54 for accessory parts. TC is used with TCM1.

Standard cylinder(Tir-rod)

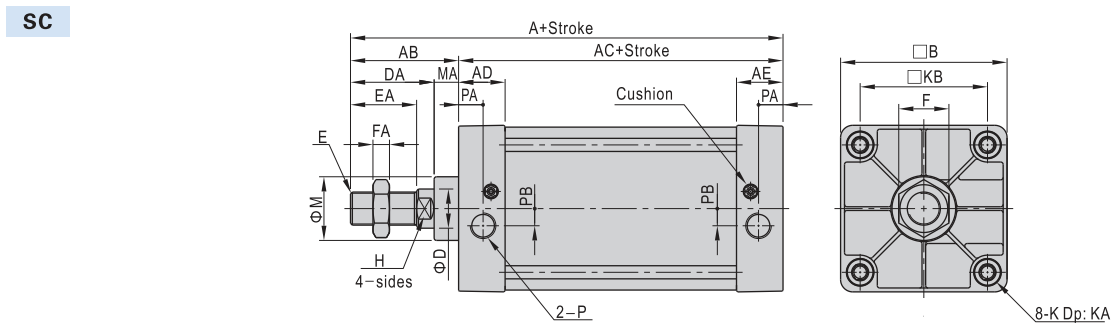
SC Series—Big bore size type

Inner structure and material of major parts



NO.	Item	Material
1	Rod nut	Carbon steel
2	Piston rod	Carbon steel with 20 μ m chrome plated
3	Front cover packing	TPU
4	Bushing	Wear resistant material
5	Front cover	Aluminum alloy
6	Cushing O-ring	TPU
7	O-ring	NBR
8	Barrel	Aluminum alloy
9	Piston	Aluminum alloy
10	Piston rod O-ring	NBR
11	Piston seal	NBR
12	Magnet	Plastic
13	Wear ring	Wear resistant material
14	Bolt	Carbon steel
15	Back cover	Aluminum alloy
16	Tie-rod	Carbon steel
17	Tie-rod nut	Carbon steel

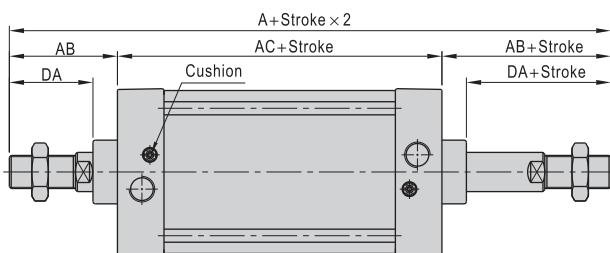
Dimensions



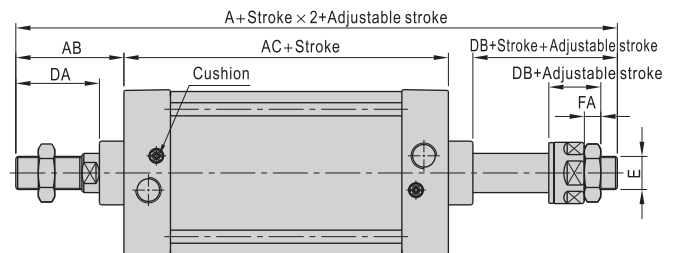
Bore size\Item	A	AB	AC	AD	AE	B	D	DA	E	EA	F	FA	H	K	KA	KB	M	MA	P	PA	PB
125	203	88	115	38	38	136	32	68	M27×2.0	54	41	13.5	27	M12×1.75	21	104	52	20	1/2"	20	14
160	239	113	126	38	38	174	40	88	M36×2.0	72	55	18	36	M16×2.0	21	134	62	25	3/4"	20	15
200	244	118	126	38	38	214	40	88	M36×2.0	72	55	18	36	M16×2.0	21	163	62	30	3/4"	20	15
250	294	141	153	48	48	267	50	106	M42×2.0	84	65	21	46	M20×2.5	26	202	86	35	1"	25.5	22

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

SCD



SCJ



Bore size\Item	A(SCD)	A(SCJ)	AB	AC	DA	DB	E	FA
125	291	265.5	88	115	68	42.5	M27X2.0	13.5
160	352	332	113	126	88	68	M36X2.0	18
200	362	342	118	126	88	68	M36X2.0	18
250	435	409	141	153	106	80	M42X2.0	21

Remark:
 1. The dimensions of magnet type cylinder are the same as non-magnet type cylinder.
 2. The unmarked dimension is the same as SC standard type.

