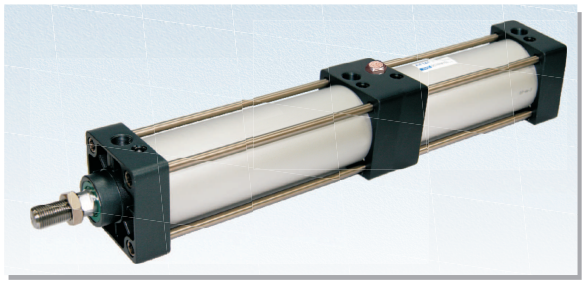
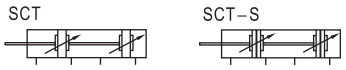
Standard cylinder(Tie-rod)

SCT Series(Multi-position type)



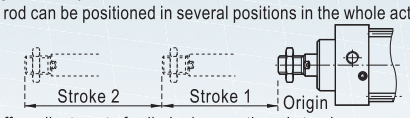
SC

Symbol



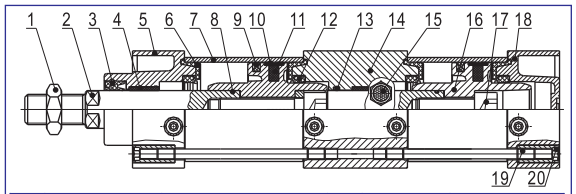
Product feature

1. Standard cylinder manufactured by our enterprise.
2. The seal of piston adopts heterogeneous two way seal structure. It's dimension is tight and it has the function of grease reservation.
3. It is tie rod cylinder. The cylinder barrel and front/rear cap is jointed by tie rods with high reliability.
4. Piston rod can be positioned in several positions in the whole action process.



5. The buffer adjustment of cylinder is smooth and steady.
6. Cylinders and mounting accessories with several specifications are optional.
7. The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150℃.

Inner structure and material of major parts



NO.	Item	Material	NO.	Item	Material
1	Rod nut	Carbon steel	11	Magnet	Plastic
2	Piston rod	Carbon steel with 20 μ m chrome plated	12	Gasket	NBR
			13	O–ring	NBR
3	Packing	TPU	14	Joint seat	Aluminum alloy
4	Bushing	Wear resistant material	15	Silencer	
5	Front cover	Aluminum alloy	16	Piston	Aluminum alloy
6	Cushing O-ring	TPU	17	Bolt	Carbon steel
7	Barrel	Aluminum alloy	18	Back cover	Aluminum alloy
8	Rod O–ring	NBR	19	Tie-rod	Carbon steel
9	Piston seal	NBR	20	Tie-rod nut	Carbon steel
10	Wear ring	Wear resistant material			

Ordering code

Model can to be changed Ordering code. Example:

Production type: SCT — Bore size: 100mm
Stroke 1: 800mm — Stroke 2: 500mm
Magnet: With magnet — Mounting type: LB
Seals material: Viton — Thread type: NPT

Model: SCT–100×800×500–S–H–LB–T

Ordering code: SCT A0 S 0800 500 LB H T

- Model: SCT
- Bore size: 32: Φ32mm; 40: Φ40mm; 50: Φ50mm; 63: Φ63mm; 80: Φ80mm; A0: Φ100mm
- Magnet: Blank: Without magnet; S: With magnet
- Stroke 1: In 4 digits
- Stroke 2: In 3 digits
- Mounting type: LB
- Seals Material: Blank: TPU; H: Viton; N: NBR
- Thread type: P: PT; T: NPT; G: G

Specification

Bore size(mm)	32	40	50	63	80	100
Acting type	Double acting					
Fluid	Air(to be filtered by 40 μ m filter element)					
Mounting type	Basic FA FB CA CB LB TC TCM1					
Operating pressure	0.1~1.0MPa(15~145psi)(1.0~10.0bar)					
Proof pressure	1.5MPa(215psi)(15bar)					
Temperature ℃	-20~80					
Speed range mm/s	30~800					
Stroke tolerance	$0\sim250^{+1.0}_{0}$ $251\sim1000^{+1.4}_{0}$ $1001\sim1500^{+1.8}_{0}$					
Cushion type	Variable cushion					
Adjustable cushion stroke mm	21				28	29
Port size ①	1/8"	1/4"		3/8"		1/2"

① PT thread, NPT thread and G thread are available.
Add) Refer to P403~426 for detail of sensor switch.

Stroke

Bore size(mm)	Standard stroke (mm)	Max. std stroke	Max. stroke
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	800
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	800
50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	800
63	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	800
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	800
100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	800

Note) If the stroke is ⩾800mm within the maximum stroke scope, it is treated as non-standard one.
Please contact the company for other special strokes.

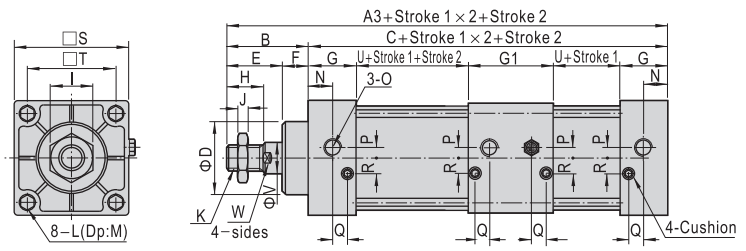
Explain of model

SCT–50×50×50–S–□–□–P

- Model: SCT: Double acting Multi-position type
- Bore size: 32 40 50 63 80 100
- Stroke 1: Refer to stroke table for details
- Stroke 2: Refer to stroke table for details
- Magnet: Blank: Without magnet; S: With magnet
- Thread type: P: PT; T: NPT; G: G
- Seals Material: Blank: TPU; H: Viton; N: NBR
- ① Mounting type: Mounting type is the same as SC, please refer to page 208 for details.

① Please refer to page 217~220 for accessory parts.

Dimensions



Bore size\Item	A3	B	C	D	E	F	G	G1	H	I	J	K
32	233	47	186	28	32	15	27.5	55	22	17	6	M10×1.25
40	235	49	186	32	34	15	27.5	55	24	17	7	M12×1.25
50	243	57	186	38	42	15	27.5	55	32	23	8	M16×1.5
63	249	57	192	38	42	15	27.5	55	32	23	8	M16×1.5
80	296	75	221	47	54	21	33	73	40	26	10	M20×1.5
100	308	75	233	47	54	21	33	73	40	26	10	M20×1.5

Bore size\Item	L	M	N	O	P	Q	R	S	T	U	V	W
32	M6×1.0	9.5	14	1/8"	5.5	6	6.5	45	33	38	12	10
40	M6×1.0	9.5	15	1/4"	6	5	8.5	50	37	38	16	14
50	M6×1.0	9.5	17	1/4"	8.5	2.5	10	62	47	38	20	17
63	M8×1.25	9.5	15	3/8"	9.5	4	8.5	75	56	41	20	17
80	M10×1.5	11.5	19.5	3/8"	10	4.5	14	94	70	41	25	22
100	M10×1.5	11.5	16.5	1/2"	11	6.5	14	112	84	47	25	22

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