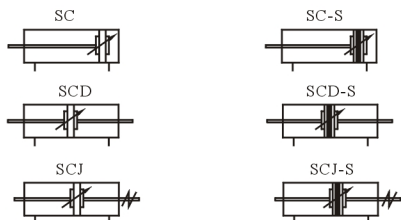


STANDARD CYLINDER(TIE-ROD)

SC SCD SCJ SERIES

AirTAC

■ Symbol



■ Specification

Bore size		mm	32	40	50	63	80	100
Action		Double acting type						
Fluid		Air (to be filtered by 40 μ filter element)						
Mounting type	SC Series	Basic FA FB CA CB LB TC TC-M						
	SCD Series	Basic FA LB TC TC-M						
	SCJ Series	Basic FA LB TC TC-M						
Pressure range		1.0~9.0bar (0.1~0.9MPa)(14~128Psi)						
Proof pressure		15.0bar (1.5MPa)(213Psi)						
Temperature range		-5~70						
Speed range		mm/s SC Series: 50~800 Other Series: 30~800						
Cushion type		Variable cushion						
Adjustable cushion stroke mm		24 32						
Port size		1/8" 1/4" 3/8" 1/2"						

*Refer to Page VI-46~VI-47 for details information of sensor switch.

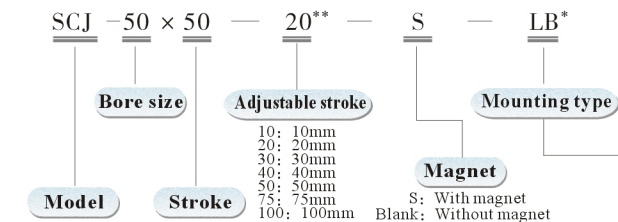
*Note: PT, NPT, BSPP Thread are available.

■ Stroke list

Bore size (mm)	Standard stroke																	Max. Stroke	Available Stroke upto
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500		1000	2000
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800

Note: Consult us for non-standard stroke.

■ Ordering code



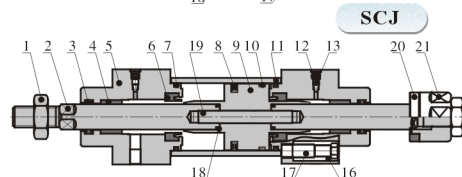
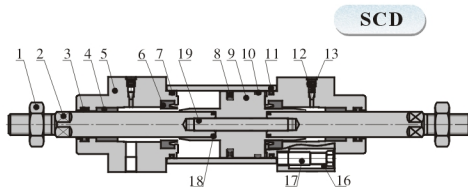
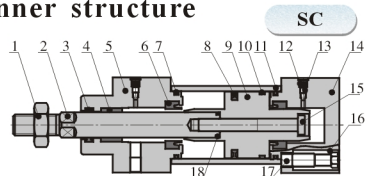
	Mounting type	Available Series		
(Blank)		SC	SCD	SCJ
LB		SC	SCD	SCJ
FA		SC	SCD	SCJ
FB		SC		
CA		SC		
CB		SC		
TC		SC	SCD	SCJ

STANDARD CYLINDER(TIE-ROD)

AirTAC

SC SCD SCJ SERIES

Inner structure



NO.	Item	NO.	Item	NO.	Item
1	Rod nut	8	Piston O-ring	15	Screw
2	Rod	9	Piston	16	Tie-rod nut
3	Rod packing	10	Wearing	17	Tie-rod
4	Bushing	11	Barrel	18	Rod O-ring
5	Front cover	12	Cushion gasket	19	Piston screw
6	Cushion packing	13	Cushion needle	20	Bumper
7	Barrel gasket	14	Back cover	21	Adjustable nut

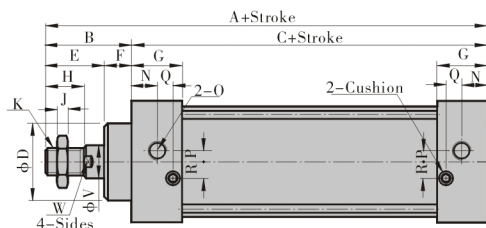
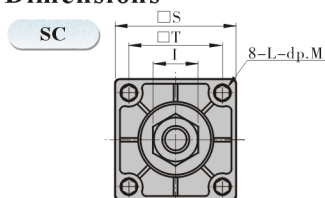
Material of major parts

Bore size(mm)	32	40	50	63	80	100	Bore size(mm)	32	40	50	63	80	100
Barrel	Aluminum alloy						LB mounting	Carbon steel					
Piston	Aluminum alloy						Flange mounting	Aluminum alloy					
Rod	Carbon steel with 20 μ chrome plated						Tunnon mounting	Cast iron					
Rod packing	NBR						Tunnon bracket	Cast iron					
Piston O-ring	NBR						Piston screw	Carbon steel					
Barrel gasket	NBR						Adjusting nut	Carbon steel					
Rod O-ring	NBR						Bumper	Plastic steel					
Cushion packing	NBR						Tie-rod	Carbon steel					
Cushion gasket	NBR						Tie-rod nut	Carbon steel					
Bushing	Wearable material						Wearing ring	PTFE+Graphite					
Front cover	Aluminum alloy						Cushion needle	Copper with nickel plated					
Magnet	Plastic												

O-ring list

	Rod packing	Piston O-ring	Tube gasket	Rod gasket	Cushion packing	Cushion gasket
Bore size/Quantity	1	1	2	1	2	2
32	PDU-12	APA-32	27.5 × 2	1.3 × 9.2	CTU-15	1.5 × 5.5
40	PDU-16	APA-40	34.5 × 2	1.5 × 12.7	CTU-20	1.5 × 5.5
50	PDU-20	APA-50	45.5 × 2	1.5 × 16.7	CTU-28	1.5 × 5.5
63	PDU-20	APA-63	55.5 × 2	1.5 × 16.7	CTU-28	1.5 × 5.5
80	PDU-25	APA-80	74.5 × 2	2.4 × 19.8	CTU-35	1.5 × 5.5
100	PDU-25	APA-100	94.5 × 2	2.4 × 19.8	CTU-35	1.5 × 5.5

Dimensions



Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W
Bore size																						
32	140	47	93	28	32	15	27.5	22	17	6	M10 × 1.25	M6 × 1	9.5	13.7	1/8"	3.5	7.5	7	45	33	12	10
40	142	49	93	32	34	15	27.5	24	17	7	M12 × 1.25	M6 × 1	9.5	13.5	1/4"	6	8.2	9	50	37	16	14
50	150	57	93	38	42	15	27.5	32	23	8	M16 × 1.5	M6 × 1	9.5	13.5	1/4"	8.5	8.2	9	62	47	20	17
63	153	57	96	38	42	15	27.5	32	23	8	M16 × 1.5	M8 × 1.25	9.5	13.5	3/8"	7	8.2	8.5	75	56	20	17
80	182	75	107	47	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5	11.5	16.5	3/8"	10	9.5	14	94	70	25	22
100	188	75	113	47	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5	11.5	16.5	1/2"	11	9.5	14	112	84	25	22

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

STANDARD CYLINDER(TIE-ROD)

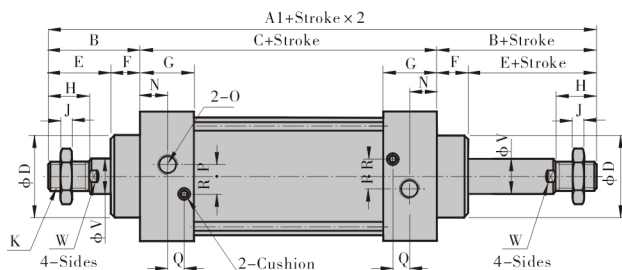
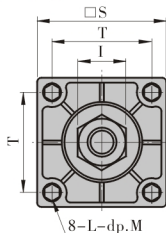
SC SCD SCJ SERIES

AirTAC

■ Dimensions

SCD

φ 32~φ 100

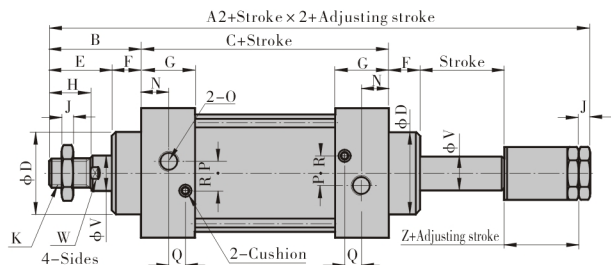
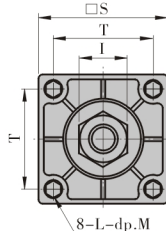


Item Bore size	A1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W
32	187	47	93	28	32	15	27.5	22	17	6	M10 × 1.25	M6 × 1	9.5	13.7	1/8"	3.5	7.5	7	45	33	12	10
40	191	49	93	32	34	15	27.5	24	17	7	M12 × 1.25	M6 × 1	9.5	13.5	1/4"	6	8.2	9	50	37	16	14
50	207	57	93	38	42	15	27.5	32	23	8	M16 × 1.5	M6 × 1	9.5	13.5	1/4"	8.5	8.2	9	62	47	20	17
63	210	57	96	38	42	15	27.5	32	23	8	M16 × 1.5	M8 × 1.25	9.5	13.5	3/8"	7	8.2	8.5	75	56	20	17
80	257	75	107	47	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5	11.5	16.5	3/8"	10	9.5	14	94	70	25	22
100	263	75	113	47	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5	11.5	16.5	1/2"	11	9.5	14	112	84	25	22

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

SCJ

φ 32~φ 100



Bore size/Item	A2	B	C	D	E	F	G	H	I	J	K	L
32	182	47	93	28	32	15	27.5	22	17	6	M10 × 1.25	M6 × 1
40	185	49	93	32	34	15	27.5	24	17	7	M12 × 1.25	M6 × 1
50	196	57	93	38	42	15	27.5	32	23	8	M16 × 1.5	M6 × 1
63	199	57	96	38	42	15	27.5	32	23	8	M16 × 1.5	M8 × 1.25
80	242	75	107	47	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5
100	248	75	113	47	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5

Bore size/Item	M	N	O	P	Q	R	S	T	V	W	Z
32	9.5	13.7	1/8"	3.5	7.5	7	45	33	12	10	21
40	9.5	13.5	1/4"	6	8.2	9	50	37	16	14	21
50	9.5	13.5	1/4"	8.5	8.2	9	62	47	20	17	23
63	9.5	13.5	3/8"	7	8.2	8.5	75	56	20	17	23
80	11.5	16.5	3/8"	10	9.5	14	94	70	25	22	29
100	11.5	16.5	1/2"	11	9.5	14	112	84	25	22	29

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

