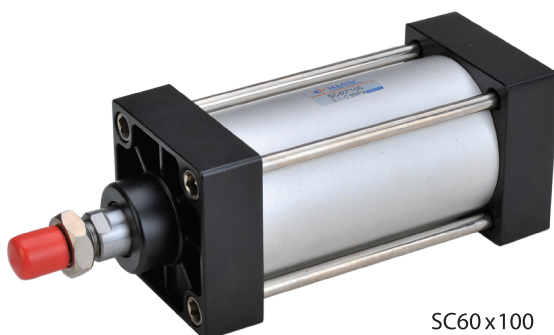


SC SERIES STANDARD CYLINDER



SC60x100

Ordering Code

SC

Model

SC: Standard Double Acting (Pull Rod Type)
SCD: Double-shaft Double Action (Pull Rod Type)
SCJ: Double Axis Double Acting Adjustable Type (Pull Rod Type)
SU: Standard Double Acting (Hidden Pull Rod Type)

-

50

Cylinder Bore

X

50

Stroke

-

S

Magnet Code
S: With Magnet
Blank: Without Magnet

-

LB

Fixed Type

Blank: Basic type
LB: Front and Back Fixed Type
FA: Front Cover Fixed Type (Front Flange Type)
FB: Back Cover Fixed Type (Rear Flange Type)
CA: Back Cover Fixed Type (Single Earring)
CB: Back Cover Fixed Type (Double Earring)
TC: Swinging Type
TC-M: Swinging Type Attaching Foot Seat

Specification

Bore (mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Basic type, FA type, FB type, CA type, CB type, LB type, TC type, TC-M type								
Operating Pressure Range	1.0~9.0 Kg/cm ²								
Ensured Pressure Resistance	13.5 Kg/cm ²								
Operating Temperature Range	-5~70°C								
Operating Speed Range	30~800 mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke	24				32				
Port Size	G1/8"	G1/4"	G3/8"		G1/2"		G3/4"		

SC SERIES STANDARD CYLINDER

Stroke

Bore	Standard Stroke	Max. Stroke	Allowable Stroke
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	1200	2000
50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
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

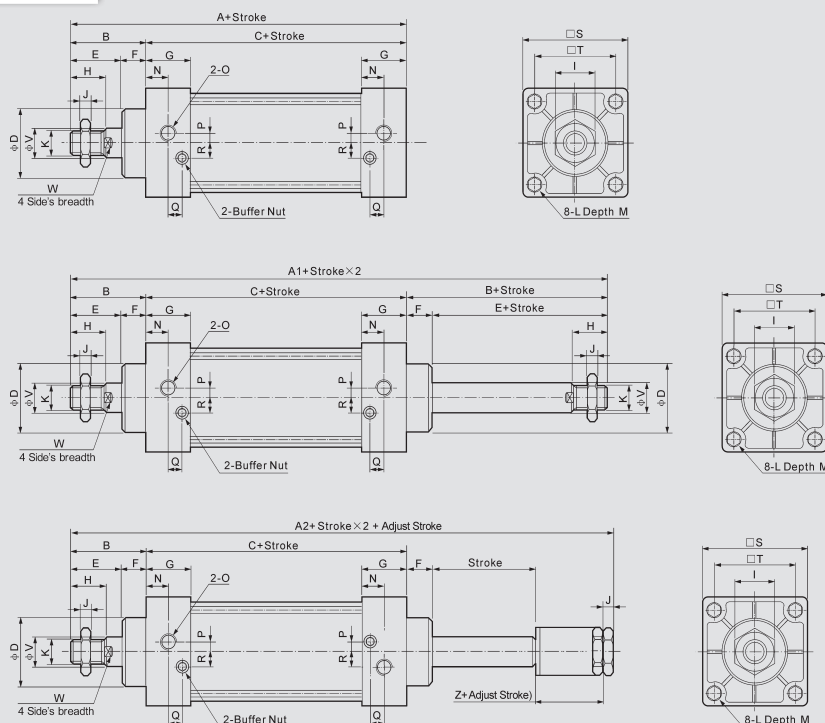
Cylinder Theory Output Sheet

Cylinder Inside Diameter	32		40		50		63		80		100		125		160		200		
External Diameter of Piston Rod	12		16		20		20		25		25		32		40		40		
Motion Pattern	Double Action		Double Action		Double Action		Double Action		Double Action		Double Action		Double Action		Double Action		Double Action		
	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	
Compression Area (cm ²)	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40	
Air Pressure (Kgf/cm ²)	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	147.24	245.40	229.20	402.00	376.80	628.40	602.80
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	220.86	368.10	343.80	603.00	565.20	942.60	904.20
	4	32.16	27.60	50.24	42.20	78.52	65.96	124.68	112.12	201.04	181.44	314.12	294.48	490.80	458.40	804.00	753.60	1256.80	1205.60
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	368.10	613.50	573.00	1005.00	942.00	1571.00	1507.00
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	441.72	736.20	687.60	1206.00	1130.40	1885.20	1808.40
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	549.71	515.34	858.90	802.20	1407.00	1318.80	2199.40	2109.80
	8	64.32	55.20	100.48	84.40	157.04	131.92	249.36	224.24	402.08	362.88	628.24	588.96	981.60	916.80	1608.00	1507.20	2513.60	2411.20
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	662.58	1104.30	1031.40	1809.00	1695.60	2827.80	2712.60

SC SERIES STANDARD CYLINDER

Overall Dimension

Φ32~Φ200



Dimension Sheet

Bore/Symbol	A	A1	B2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	26	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	49	93	30	34	15	27.5	24	19	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	24	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	24	8	M16×1.5
80	182	257	242	75	108	47	54	21	33	40	30	9	M20×1.5
100	188	263	248	75	108	47	54	21	33	40	30	9	M20×1.5
125	239	330	363	104	136	56	71	32	40	54	40	12	M27×2
160	291	412	450	121	166	62	96	60	50	72	50	14	M36×2
200	272	409	451	132	130	75	117	30	41	72	50	16	M36×2

Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M6×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	9.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	21	16.5	G1/2"	/	/	/	140	110	32	28	33
160	M16×2	25	26	G3/4"	/	/	/	180	140	40	36	38
200	M16×2	25	22.5	G3/4"	/	/	/	220	175	40	36	42