

How to Order?

Series No	Mounting type	Type No	Bore	X	Stroke	Adjustable stroke	Magnet No	Piston Rod thread type	Thread type
SQ	Blank: Through hole A: Femal thread at both ends	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type SA: Single acting spring extend SB: Single acting spring return	12 16 20 25 ...		25 50 75 ...	10 20 30 40 50 75 100	Blank: no magnet S: with magnet	Blank: Female thread M: Male thread N: No thread	Blank: G P: PT T: NPT

Order Example:

SQ Series single acting spring extend cylinder, through hole mounting type, 40mm bore, 30mm stroke, with magnet, femal thread on piston rod, G thread.
ERP code is: SQSA40X30-S

Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100	
Acting type	Double Acting / Single acting: With Spring Return / With Spring Extend										
Working medium	Clean Air (40 µm filtration)										
Working pressure (MPa)	0.1-1.0										
Guaranteed pressure (MPa)	1.5										
Working temperature (°C)	-20-80(Dry air)										
Cushion type	Anti-bump cushion										
Tolerance of stroke	+1.0 0										
Lubrication	Not required										
Port size	M5x0.8					G 1/8		G 1/4		G 3/8	

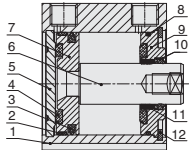
● NPT, PT port size is optional.

Bore (mm)		Standard stroke (mm)									Max. stroke (mm)							
Double Acting	12/16	5	10	15	20	25	30	35	40	45	50	60	50					
	20/25	5	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100	150
	32-100	5	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100	300
Single Acting	12/16	5	10	15	20								20					
	20-63	5	10	15	20	25	30								30			

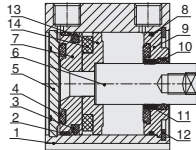
Note: The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.

Internal structure

※ Without magnet



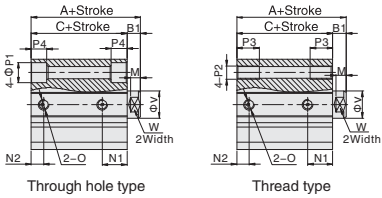
※ With magnet



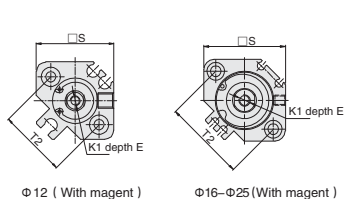
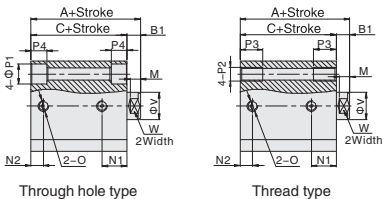
No	Part name
1	Barrel
2	Wear ring
3	Piston seal
4	Anti-bump cushion
5	Rear cover
6	Piston rod
7	Piston
8	O-ring
9	Head cover
10	Piston rod seal
11	Self lubricating bearing
12	C type retainer ring
13	Magnet
14	Magnet base

Main Dimensions

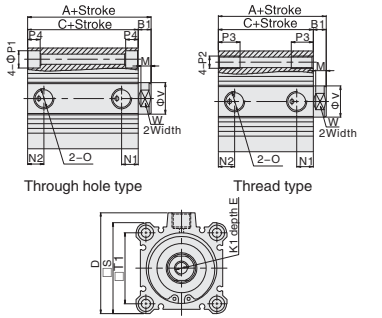
SQ $\phi 12-\phi 25$ (Without magnet)



Model	Basic Type				With Magnet									
	Sign	A	C	N1	N2	A	C	N1	N2	B1	D	E	M	
Bore	St<=50	St>=60	St<=50	St>=60	N1	N2	A	C	N1	N2	B1	D	E	M
12	20.5	-	17	-	7.5	5	31.5	28	9	5	3.5	-	6	3.5
16	22	-	18.5	-	8	5.5	34	30.5	9.5	5.5	3.5	-	8	3
20	24	34	19.5	29.5	9	5.5	36	31.5	9.5	5.5	4.5	-	7	4
25	27.5	37.5	22.5	32.5	11	5.5	37.5	32.5	11	5.5	5	-	12	4.5



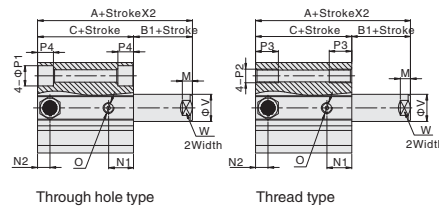
SQ $\phi 32-\phi 100$



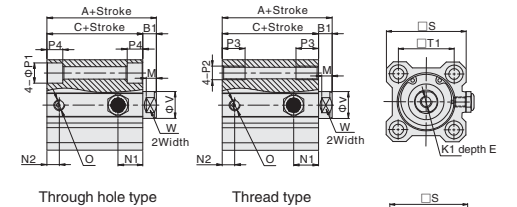
Model	Basic Type				With Magnet										
	Sign	A	C	N1	N2	A	C	N1	N2	B1	D	E	M		
Bore	St<=50	St>=60	St<=50	St>=60	N1	N2	A <td>C <td>N1</td> <td>N2</td> <td>B1</td> <td>D</td> <td>E</td> <td>M</td> </td>	C <td>N1</td> <td>N2</td> <td>B1</td> <td>D</td> <td>E</td> <td>M</td>	N1	N2	B1	D	E	M	
32	St=5	30	40	23	33	7.5	6.5	40	33	10.5	7.5	7	49.5	13	6
40	St>=5	36.5	46.5	29.5	39.5	11	8	46.5	39.5	11	8	7	57	13	6
50	St=5	38.5	48.5	30.5	40.5	10.5	10.5	48.5	40.5	10.5	10.5	8	71	15	6.5
63	St>=5	44	54	36	46	14	9.5	54	46	15	10.5	8	84	15	6.5
80	St=5	53.5	63.5	43.5	53.5	16	14	63.5	53.5	16	14	10	104	20	8.5
100	St>=5	65	75	53	63	20	17.5	75	63	20	17.5	12	123.5	26	9.5

Bore/Sign	K1	O	P1	P2	P3	P4	S	T1	T2	V	W
32	M8x1.25	PT1/8	9	M6x1.0	10	7	45	34	-	16	14
40	M8x1.25	PT1/8	9	M6x1.0	10	7	52	40	-	16	14
50	M10x1.5	PT1/4	11	M8x1.25	14	8	64	50	-	20	17
63	M10x1.5	PT1/4	14	M10x1.5	18	10.5	77	60	-	20	17
80	M16x2.0	PT3/8	17.5	M12x1.75	22	13.5	98	77	-	25	22
100	M20x2.5	PT3/8	17.5	M12x1.75	22	13.5	117	94	-	32	27

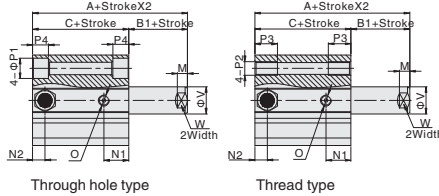
SQSA $\phi 12-\phi 25$ (Without magnet)



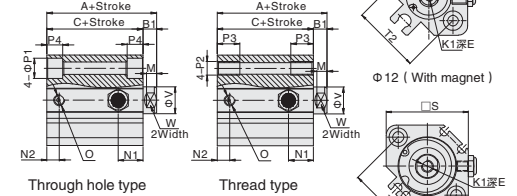
SQSB $\phi 12-\phi 25$ (Without magnet)



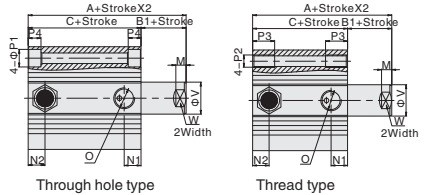
SQSA $\phi 12-\phi 25$ (With magnet)



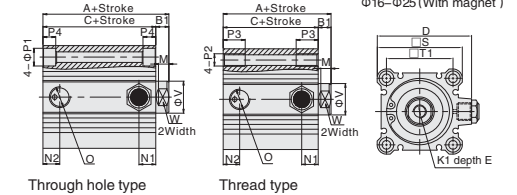
SQSB $\phi 12-\phi 25$ (With magnet)



SQSA $\phi 32-\phi 63$



SQSB $\phi 32-\phi 63$

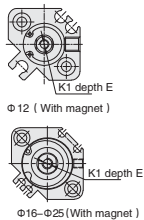
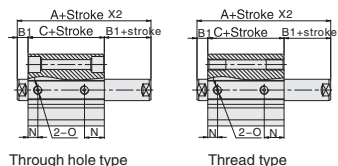
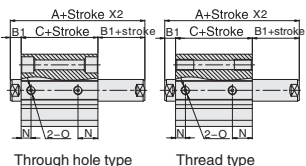


Model	Basic Type									B1	D	E	
	Bore/Sign	A	C	N1	N2	A	C	N1	N2				
Stroke	5/10	15/20	25/30	5/10	15/20	25/30	N1	N2	3.5	5	3.5	-	8
12	25.5	30.5	-	22	27	-	7.5	5	3.5	-	6	-	8
16	27	32	-	23.5	28.5	-	8	5.5	3.5	-	8	-	8
20	29	34	39	24.5	29.5	34.5	9	5.5	4.5	-	7	-	7
25	32.5	37.5	42.5	27.5	32.5	37.5	11	5.5	5	-	12	-	12
32	35	40	45	28	33	38	10.5	7.5	7	49.5	13	-	13
40	41.5	46.5	51.5	34.5	39.5	44.5	11	8	7	57	13	-	13
50	48.5	53.5	58.5	40.5	45.5	50.5	10.5	10.5	8	71	15	-	15
63	54	59	64	46	51	56	15	10.5	8	84	15	-	15

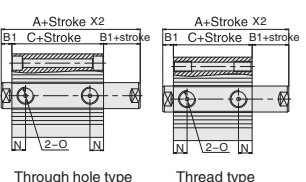
Model	With Magnet									N1	N2	K1	
	Bore/Sign	A	C	N1	N2	A	C	N1	N2				
Stroke	5/10	15/20	25/30	5/10	15/20	25/30	N1	N2	3.5	5	3.5	-	8
12	36.5	41.5	-	33	38	-	9	5	M3x0.5	-	-	-	-
16	39	44	-	35.5	40.5	-	9.5	5.5	M4x0.7	-	-	-	-
20	41	46	51	36.5	41.5	46.5	9.5	5.5	M5x0.8	-	-	-	-
25	42.5	47.5	52.5	37.5	42.5	47.5	11	5.5	M6x1.0	-	-	-	-
32	45	50	55	38	43	48	10.5	7.5	M8x1.25	-	-	-	-
40	51.5	56.5	61.5	44.5	49.5	54.5	11	8	M8x1.25	-	-	-	-
50	58.5	63.5	68.5	50.5	55.5	60.5	10.5	10.5	M10x1.5	-	-	-	-
63	64	69	74	56	61	66	15	10.5	M10x1.5	-	-	-	-

Bore/Sign	M	S	T1	T2	V	W
12	3.5	25	15.5	22	6	5
16	3	29	20	28	8	6
20	4	36	25.5	36	10	8
25	4.5	40	28	40	12	10
32	6	45	34	-	16	14
40	6	52	40	-	16	14
50	6.5	64	50	-	20	17
63	6.5	77	60	-	20	17

SQD $\phi 12-\phi 25$ (Without magnet)



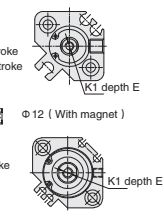
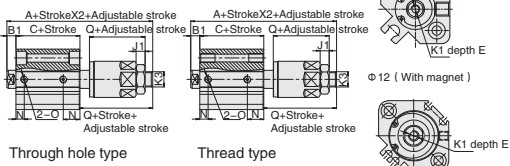
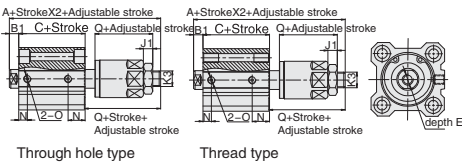
SQD $\phi 32-\phi 63$



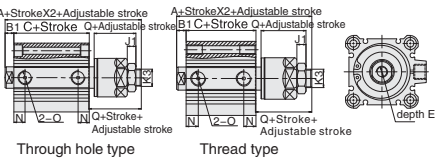
Bore /Sign	A		C		B1	E	N
	standard	With magnet	standard	With magnet			
12	32.2	39.4	25.2	32.4	3.5	6	9
16	33	43	26	36	3.5	8	9.5
20	35	47	26	38	4.5	7	9.5
25	39	49	29	39	5	9.5(St=5)/12(St>5)	11
32	44.5	54.5	30.5	40.5	7	9(St≤10)/13(St>10)	10
40	54	64	40	50	7	11(St≤10)/13(St>10)	13
50	56.5	66.5	40.5	50.5	8	12(St≤10)/15(St>10)	13.5
63	58	68	42	52	8	12(St≤10)/15(St>10)	16
80	71	81	51	61	10	14(St≤15)/20(St>15)	16
100	84.5	94.5	60.5	70.5	12	20(St≤25)/26(St>25)	21

Note: Not marked dimensions is same as standard type. Male thread type pls check this page.

SQJ $\phi 12-\phi 25$ (Without magnet)

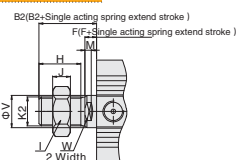


SQJ $\phi 32-\phi 100$

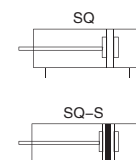


Bore /Sign	A		C		B1	E	N	Q	J1	K3
	standard	With magnet	standard	With magnet						
12	45.2	52.4	25.2	32.4	3.5	6	9	17	4	M5x0.8
16	50	60	26	36	3.5	8	9.5	21	5	M6x1.0
20	55	67	26	38	4.5	7	9.5	25	6	M8x1.25
25	61.5	71.5	29	39	5	9.5(St=5)/12(St>5)	11	28	6	M10x1.25
32	67	77	30.5	40.5	7	9(St≤10)/13(St>10)	10	30	8	M14x1.5
40	75	85.5	40	50	7	11(St≤10)/13(St>10)	13	29	8	M14x1.5
50	80.5	90.5	40.5	50.5	8	12(St≤10)/15(St>10)	13.5	32	11	M18x1.5
63	82	92	42	52	8	12(St≤10)/15(St>10)	16	32	11	M18x1.5
80	97.3	107.3	51	61	10	14(St≤15)/20(St>15)	16	37	13	M22x1.5
100	109	119	60.5	70.5	12	20(St≤25)/26(St>25)	21	37	13	M26x1.5

Male type dimension



Bore /Sign	B2	F	H	I	J	K2	M	V	W
12	14	3.5	9	8	4	M5x0.8	3.5	6	5
16	15.5	3.5	10	10	5	M6x1.0	3	8	6
20	18.5	4.5	12	12	6	M8x1.25	4	10	8
25	22.5	5	15	17	6	M10x1.25	4.5	12	10
32	28.5	5	20.5	19	8	M14x1.5	4	16	14
40	28.5	5	20.5	19	8	M14x1.5	4	16	14
50	33.5	5	26	27	11	M18x1.5	4	20	17
63	33.5	5	26	27	11	M18x1.5	4	20	17
80	43.5	8	32.5	32	13	M22x1.5	6	25	22
100	43.5	8	32.5	36	13	M26x1.5	5.5	32	27



How to Order?

Series No	Type No.	Bore	X Stroke	Adjustable stroke	Magnet No	Piston Rod thread type	Thread type
SQA (Thread type)		32 40 50 ...	Reference stroke	10 20 30 40 50 75 100	Blank: no magnet S: with magnet	Blank: Female thread M: Male thread N: No thread	Blank: G P: PT T: NPT

Blank: Basic type
D: Double shaft type
J: Double shaft and adjustable stroke type
SA: Single acting spring extend
SB: Single acting spring return

Order Example:
SQA Series basic type cylinder, 40mm bore, 125mm stroke, with magnet, male thread on piston rod, G thread, ERP code is: SQA40X125-S-M

Specifications

Bore size(mm)	32	40	50	63	80	100
Acting type	Double acting					
Working medium	Clean air(40 μ m filtration)					
Working pressure(MPa)	0.1-1.0 (Double acting) /0.2-1.0(Single acting)					
Garanteed pressure(MPa)	1.5					
Working temperature(°C)	-20-80					
Speed range(mm/s)	30-500					
Cushion type	Fixing cushion					
Port size	G1/8		G1/4		G3/8	

PT, NPT port size is optional

Stroke

Bore(mm)	Standard Stroke(mm)							Max. Stroke(mm)
32 40 50 63 80 100	125	150	175	200	250	300	350	350

Note: The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 115mm stroke cylinder has the same dimensions of 125 std. stroke cylinder.

