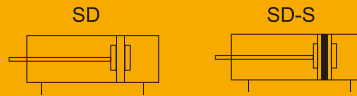


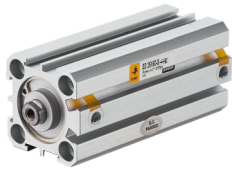
SD Series Compact Cylinder

SD

Compact Cylinder



Specifications



Bore(mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double Acting									
Working medium	Clean Air(40 μm 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(No freezing)									
Speed range(mm/s)	30~500									
Cushion type	Rubber cushion									
Port size	M5 x 0.8			G1/8 ①		G1/4 ①		G3/8 ①		

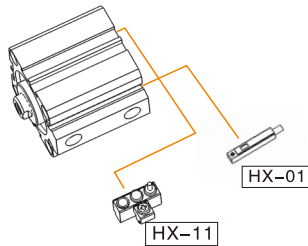
① PT, NPT port size is optional.

How to Order?

Series No	Type No	Bore	X	Stroke	Adjustable Stroke	Magnet No	Piston Rod Thread Type	Thread Type
SD	Blank: Basic type	12	5	10	Blank: No magnet	Blank: G P: PT T: NPT	Blank: Female thread M: Male thread	
	D: Double shaft type	16	10	20	S: With magnet			
	J: Double shaft and adjustable stroke type	20	15	30				
	SA: Single acting spring extend	25	...	40				
	SB: Single acting spring return	...		50				
		100		75				
			100					

Series No	Type No	Bore	X	Stroke1	X	Stroke12	Magnet No	Piston Rod Thread Type	Thread Type
SD	T: Multi position type	12	5	25	Blank: No magnet	Blank: Female thread M: Male thread	Blank: G P: PT T: NPT		
	W: Double shaft and Multi position type	16	10	50	S: With magnet				
		20	15	75					
		25					
		...							
		100							

Optional Accessories



Product Features

- * Compact cylinder, light weight.
- * Unique slot type barrel design easy for magnet switch install.
- * Equipped with self-lubricating bearings, piston rod no need extra lubricating.
- * Magnet optional.

Stroke

Bore (mm)	Standard Stroke (mm)	Max. Stroke (mm)	
Double Acting	12/16	5 10 15 20 25 30 35 40 45 50 55 60	60
	20	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130 140 150	
	25	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130 140 150	
	32~100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130 140 150 160 170 180 190 200	
Single Acting	12~63	5 10 15 20 25 30	30

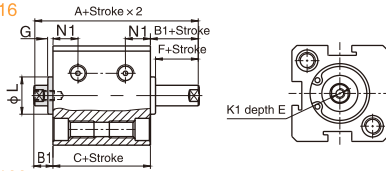
Note: The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.

SD Series Compact Cylinder

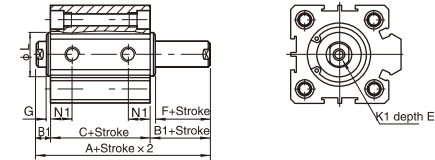
Main Dimension

SDD $\Phi 12$ - $\Phi 100$

$\Phi 12$ -16



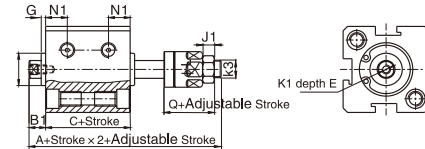
$\Phi 20$ -100



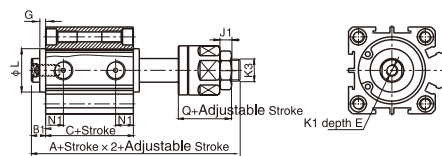
Bore	Basic Type		With Magnet		E		B1	F	G	K1	L	N1	
	A	C	A	C	S ≤ 10	S > 10						S=5	S > 5
12	27	17	37	27	6		5	4	1	M3x0.5	10.2	5.5	6.3
16	29.5	18.5	39.5	28.5	6		5.5	4	1.5	M3x0.5	11	6	7.3
20	30.5	19.5	40.5	29.5	8		5.5	4	1.5	M4x0.7	15	6.5	7.5
25	33	21	43	31	10		6	4	2	M5x0.8	17	7	8
32	38.5	24.5	48.5	34.5	12	12	7	4	3	M6x1	22	6	9
40	40	26	50	36	12	12	7	4	3	M8x1.25	28	8	10
50	46	28	56	38	15(S ≤ 10, 11)	15	9	5	4	M10x1.5	38	8	10.5
63	50	32	60	42	15(S ≤ 10, 11)	15	9	5	4	M10x1.5	40	9.5	11.8
80	63	41	73	51	13	20	11	6	5	M14x1.5	45	14.5	14.5
100	75	51	85	61	18	20	12	7	5	M18x1.5	55	20.5	20.5

SDJ $\Phi 12$ - $\Phi 100$

$\Phi 12$ -16



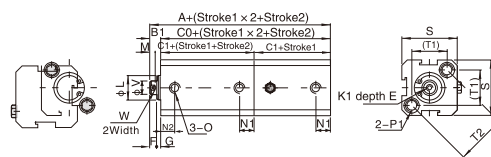
$\Phi 20$ -100



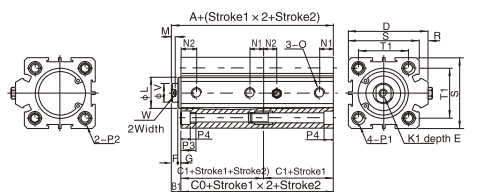
Bore	Basic Type		With Magnet		E		B1	Q	G	J1	K1	K3	L	N1	
	A	C	A	C	S ≤ 10	S > 10								S=5	S > 5
12	40	17	50	27	6		5	17	1	4	M3x0.5	M5x0.8	10.2	5.5	6.3
16	42.5	18.5	52.5	28.5	6		5.5	17	1.5	4	M3x0.5	M5x0.8	11	6	7.3
20	47.5	19.5	57.5	29.5	8		5.5	21	1.5	5	M4x0.7	M6x1.0	15	6.5	7.5
25	54	21	64	31	10		6	25	2	6	M5x0.8	M8x1.25	17	7	8
32	61.5	24.5	71.5	34.5	12	12	7	27	3	6	M6x1.0	M10x1.25	22	6	9
40	65	26	75	36	12	12	7	29	3	8	M8x1.25	M14x1.5	28	8	10
50	73	28	83	38	15(S ≤ 10, 11)	15	9	32	4	11	M10x1.5	M18x1.5	38	8	10.5
63	77	32	87	42	15(S ≤ 10, 11)	15	9	32	4	11	M10x1.5	M18x1.5	40	9.5	11.8
80	94	41	104	51	13	20	11	37	5	13	M14x1.5	M22x1.5	45	14.5	14.5
100	105	51	115	61	18	20	12	37	5	13	M18x1.5	M26x1.5	55	20.5	20.5

SDT $\Phi 12$ - $\Phi 100$

$\Phi 12$ -16



$\Phi 20$ -100



Bore	Basic Type			With Magnet			B1	D	E	F	G	K1	L	M	N1		N2	
	A	C0	C1	A	C0	C1									S=5	S > 5	S=5	S > 5
12	39	34	17	59	54	27	5	-	6	4	1	M3x0.5	10.2	3	5	5	7.5	7.5
16	42.5	37	18.5	62.5	57	28.5	5.5	-	6	4	1.5	M3x0.5	10	3	5	5.5	8	8
20	44.5	39	19.5	64.5	59	29.5	5.5	36	8	4	1.5	M4x0.7	13	3	5	5.5	8.2	9
25	48	42	21	68	62	31	6	42	10	4	2	M5x0.8	17	3	5.5	5.5	9	9
32	56	49	24.5	76	69	34.5	7	50	12	4	2.4	M6x1	22	3	6.5	9	9	9
40	59	52	26	79	72	36	7	58.5	12	4	3	M8x1.25	28	3	7.5	7.5	9.5	9.5
50	65	56	28	85	76	38	9	71.5	15	5	4	M10x1.5	38	3	8	10.5	8	10.5
63	73	64	32	93	84	42	9	84.5	15	5	4	M10x1.5	40	3	9.5	11	9.5	12
80	93	82	41	113	102	51	11	104	20	6	5	M14x1.5	45	4	14.5	14.5	14.5	14.5
100	114	102	51	134	122	61	12	124	20	7	5	M18x1.5	55	4	20.5	20.5	20.5	20.5

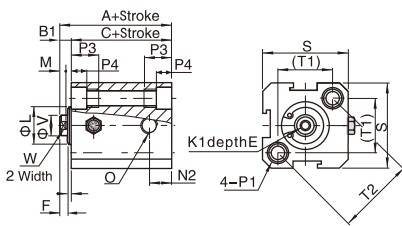
Bore	O	W	P1	P2	P3	P4	R	S	T1	T2	V	
12	M5x0.8	5	Φ6.5 Thread: M5X0.8 Through Hole: Φ4.2	-	-	12	4.5	-	25	16.2	23	6
16	M5x0.8	5	Φ6.5 Thread: M5X0.8 Through Hole: Φ4.2	-	-	12	4.5	-	29	19.8	28	6
20	M5x0.8	6	Counter bore: Φ6.5 Thread: M5X0.8 Through Hole: Φ4.2	Counter bore: Φ6.5 Through Hole: Φ6.2	14	4.5	2	34	24	-	8	
25	M5x0.8	8	Counter bore: Φ8.2 Thread: M6X1.0 Through Hole: Φ4.6	Counter bore: Φ8.2 Through Hole: Φ6.2	15	5.5	2	40	28	-	10	
32	1/8"	10	Counter bore: Φ8.2 Thread: M6X1.0 Through Hole: Φ4.6	Counter bore: Φ10 Through Hole: Φ6.2	16	5.5	6	44	34	-	12	
40	1/8"	14	Counter bore: Φ11 Thread: M8X1.25 Through Hole: Φ6.5	Counter bore: Φ10 Through Hole: Φ8.2	20	7.5	6.5	52	40	-	16	
50	1/4"	17	Counter bore: Φ11 Thread: M8X1.25 Through Hole: Φ6.5	Counter bore: Φ11 Through Hole: Φ8.5	25	8.5	9.5	62	48	-	20	
63	1/4"	17	Counter bore: Φ11 Thread: M8X1.25 Through Hole: Φ6.5	Counter bore: Φ11 Through Hole: Φ8.5	25	8.5	9.5	75	60	-	20	
80	3/8"	22	Counter bore: Φ14 Thread: M12X1.75 Through Hole: Φ9.2	Counter bore: Φ14 Through Hole: Φ12.3	25	10.5	10	94	74	-	25	
100	3/8"	27	Counter bore: Φ17.5 Thread: M14X2 Through Hole: Φ11.3	Counter bore: Φ17.5 Through Hole: Φ14.2	30	13	10	114	90	-	32	

SD Series Compact Cylinder

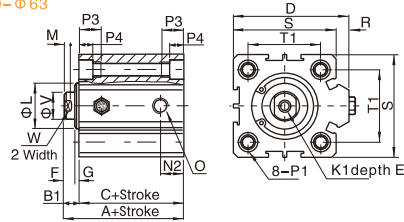
◎ Main Dimension

SDSB/SDSA $\Phi 12$ - $\Phi 63$

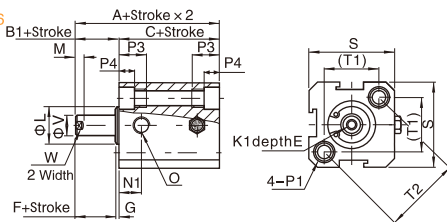
SDSB
 $\Phi 12, \Phi 16$



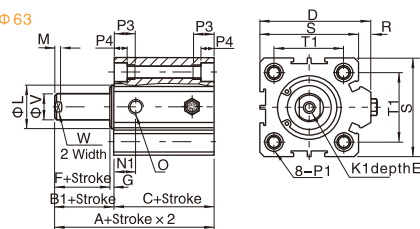
SDSB
 $\Phi 20-\Phi 63$



SDSA
 $\Phi 12, \Phi 16$



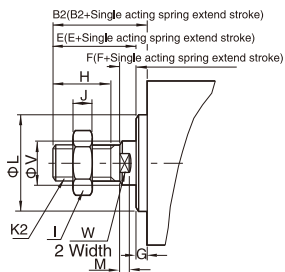
SDSA
 $\Phi 20-\Phi 63$



Sign	A (standard)		A (With magnet)		C (standard)		C (With magnet)		B1	D	E	F	G	K1	L	M	N1	N2
	St≤10	St>10	St≤10	St>10	St≤10	St>10	St≤10	St>10										
12	32	42	42	52	27	37	37	47	5	-	6	4	1	M3×0.5	10.2	3	7.5	5
16	34	44	44	54	28.5	38.5	38.5	48.5	5.5	-	6	4	1.5	M3×0.5	11	3	8	5.5
20	35	45	45	55	29.5	39.5	39.5	49.5	5.5	36	8	4	1.5	M4×0.7	13	3	9	5.5
25	37	47	47	57	31	41	41	51	6	42	10	4	2	M5×0.8	17	3	9	5.5
32	41.5	51.5	51.5	61.5	34.5	44.5	44.5	54.5	7	50	12	4.5	2.5	M6×1.0	22	3	9	9
40	43	53	53	63	36	46	46	56	7	58.5	12	4	3	M8×1.25	28	3	9.5	7.5
50	47	57	57	67	38	48	48	58	9	71.5	15	5	4	M10×1.5	38	3	10.5	10.5
63	51	61	61	71	42	52	52	62	9	84.5	15	5	4	M10×1.5	40	3	12	11

Bore/Sign	O	R	S	T1	T2	P1		P3	P4	V	W
12	M5×0.8	-	25	16.2	23	Counter bore: $\Phi 6.5$ Thread: M5×0.8 Through Hole: $\Phi 4.2$		12	4.5	6	5
16	M5×0.8	-	29	19.8	28	Counter bore: $\Phi 6.5$ Thread: M5×0.8 Through Hole: $\Phi 4.2$		12	4.5	6	5
20	M5×0.8	2	34	24	-	Counter bore: $\Phi 6.5$ Thread: M5×0.8 Through Hole: $\Phi 4.2$		14	4.5	8	6
25	M5×0.8	2	40	28	-	Counter bore: $\Phi 8.2$ Thread: M6×1.0 Through Hole: $\Phi 5.2$		15	5.5	10	8
32	1/8"	6	44	34	-	Counter bore: $\Phi 8.2$ Thread: M6×1.0 Through Hole: $\Phi 5.2$		16	5.5	12	10
40	1/8"	6.5	52	40	-	Counter bore: $\Phi 10.2$ Thread: M8×1.25 Through Hole: $\Phi 6.8$		20	7.5	16	14
50	1/8"	9.5	62	48	-	Counter bore: $\Phi 11$ Thread: M8×1.25 Through Hole: $\Phi 6.8$		25	8.5	20	17
63	1/4"	9.5	75	60	-	Counter bore: $\Phi 11$ Thread: M8×1.25 Through Hole: $\Phi 6.8$		25	8.5	20	17

Male Thread Dimension



Bore/Sign	B2	E	F	G	H	I
12	17	16	4	1	10	8
16	17.5	16	4	1.5	10	8
20	20.5	19	4	1.5	13	10
25	23	21	4	2	15	12
32	25	22.5	4.5	2.5	15	17
40	35	32	4	3	25	19
50	37	33	5	4	25	27
63	37	33	5	4	25	27
80	44	39	6	5	30	32
100	50	45	7	5	35	36
Bore/Sign	J	K2	L	M	V	W
12	4	M5×0.8	10.2	3	6	5
16	4	M5×0.8	11	3	6	5
20	5	M6×1.0	13	3	8	6
25	6	M8×1.25	17	3	10	8
32	6	M10×1.25	22	3	12	10
40	8	M14×1.5	28	3	16	14
50	11	M18×1.5	38	3	20	17
63	11	M18×1.5	40	3	20	17
80	13	M22×1.5	45	4	25	22
100	13	M26×1.5	55	4	32	27