

Thin Cylinder

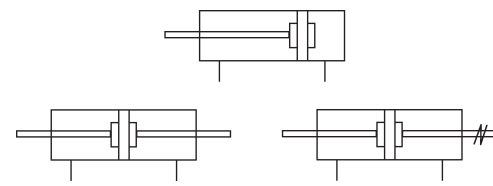
Character:

- Has ultra thin designs, light weight, occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapt to all circumstances.
- Non-lubrication design, may attached with sensor.

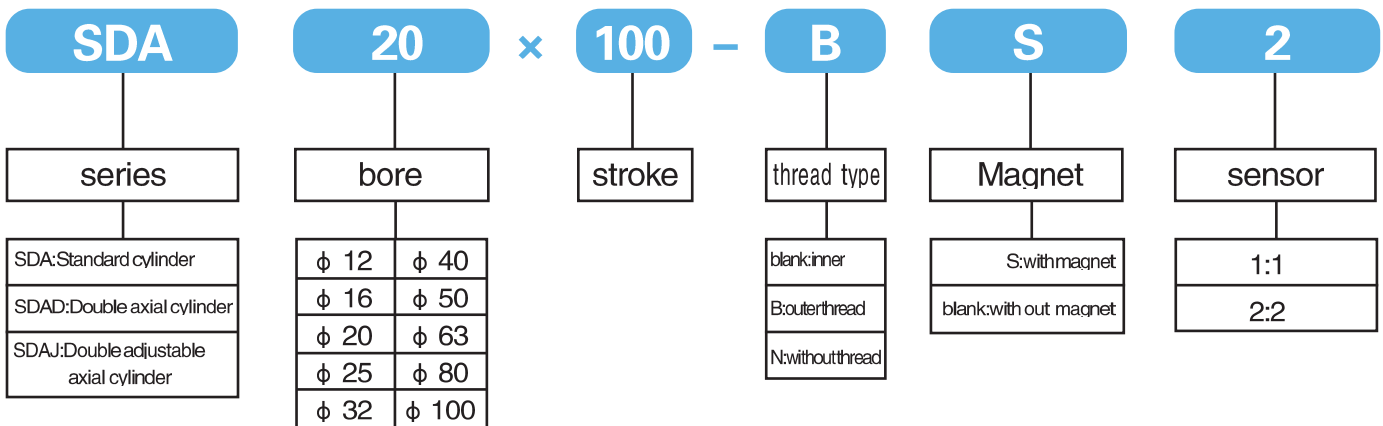


Specification:

Mode	12	16	20	25	32	40	50	63	80	100
Acting type	double acting									
Series	SDA, SDAD, SDAJ									
Fluid	air									
Operating pressure(Mpa)	0.1~0.9									
Operating speed(mm/sec)	50~500									
Ambient temperature(°C)	-10~70°C									
Oil	provided or not									
Port size	M5		1/8"		1/4"		3/8"			



How to order:

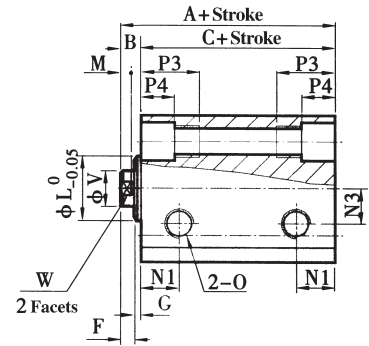
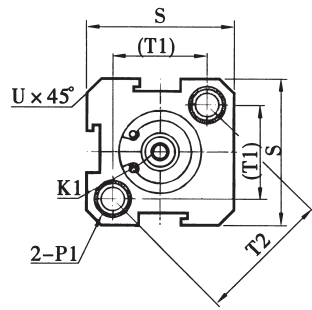


Stroke:

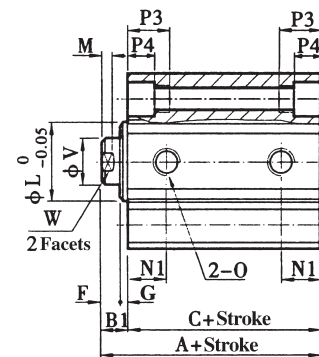
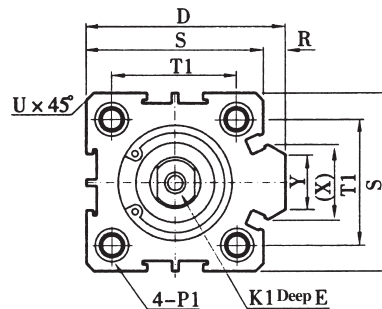
bore \ stroke	5	10	15	20	25	30	35	40	45	50	Max.stroke
12	●	●	●	●	●	●	●	●	●	●	60
16	●	●	●	●	●	●	●	●	●	●	60
20	●	●	●	●	●	●	●	●	●	●	60
25	●	●	●	●	●	●	●	●	●	●	60
32	●	●	●	●	●	●	●	●	●	●	100
40	●	●	●	●	●	●	●	●	●	●	100
50	●	●	●	●	●	●	●	●	●	●	100
63	●	●	●	●	●	●	●	●	●	●	100
80	●	●	●	●	●	●	●	●	●	●	100
100	●	●	●	●	●	●	●	●	●	●	100

Thin cylinder

Dimension: ■ ϕ 12~16



■ ϕ 20~100



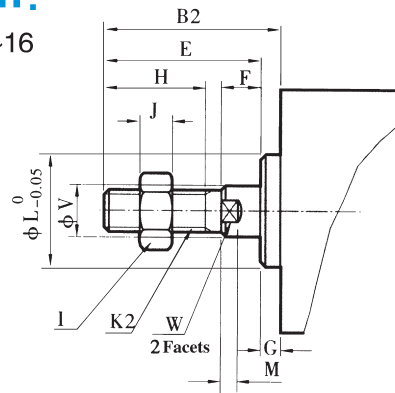
Type symbol/bore	standard			with magnet			D	E		F	G	K1	L	M	N1
	A	B	C	A	B	C		stroke ≤ 10	stroke > 10						
12	22	5	17	32	5	27	-	6		4	1	M3 × 0.5	10.2	2.8	6.3
16	24	5.5	18.5	34	5.5	28.5	-	6		4	1.5	M3 × 0.5	11	2.8	7.3
20	25	5.5	19.5	35	5.5	29.5	36	8		4	1.5	M4 × 0.7	16	2.8	7.5
25	27	6	21	37	6	31	42	10		4	2	M5 × 0.8	17	2.8	8
32	31.5	7	24.5	41.5	7	34.5	50	12		4	3	M6 × 1	22	2.8	9
40	33	7	26	43	7	36	58.5	12		4	3	M8 × 1.25	28	2.8	10
50	37	9	28	47	9	38	71.5	15		5	4	M10 × 1.5	38	2.8	10.5
63	41	9	32	51	9	42	84.5	15		5	4	M10 × 1.5	40	3.5	11.8
80	52	11	41	62	11	51	104	15	20	6	5	M14 × 1.5	45	4	14.5
100	63	12	51	73	12	61	124	18	20	7	5	M18 × 1.5	55	4	20.5

symbol/bore	P3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5 × 0.8	both sides: ϕ 6.5 thread M5 × 0.8 through hole: ϕ 4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5 × 0.8	both sides: ϕ 6.5 thread M5 × 0.8 through hole: ϕ 4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5 × 0.8	both sides: ϕ 6.5 thread M5 × 0.8 through hole: ϕ 4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5 × 0.8	both sides: ϕ 8.2 thread M6 × 1.0 through hole: ϕ 4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	both sides: ϕ 8.2 thread M6 × 1.0 through hole: ϕ 4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	both sides: ϕ 10 thread M8 × 1.25 through hole: ϕ 6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	both sides: ϕ 11 thread M8 × 1.25 through hole: ϕ 6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	both sides: ϕ 11 thread M8 × 1.25 through hole: ϕ 6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	both sides: ϕ 14 thread M12 × 1.75 through hole: ϕ 9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	both sides: ϕ 17.5 thread M14 × 2 through hole: ϕ 11.3	30	13	10	114	90	-	3.65	32	27	35	26

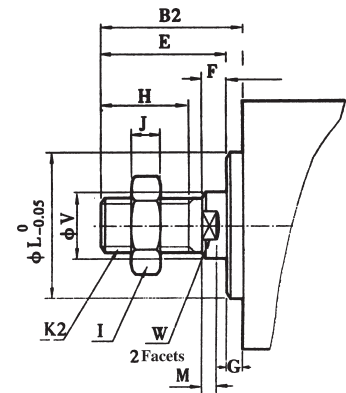
Thin cylinder

Thread Dimension:

■ ϕ 12~16



■ ϕ 20~100

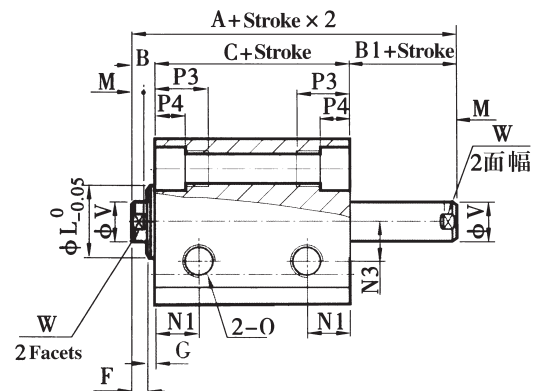
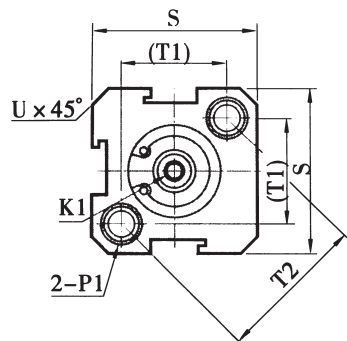


symbol/bore	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	12	8	4	M5 × 0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	12	8	4	M5 × 0.8	11	2.8	6	5
20	20.5	19	4	1.5	15	10	5	M6 × 1.0	16	2.8	8	6
25	23	21	4	2	17	12	6	M8 × 1.25	17	2.8	10	8
32	25	22	4	3	18	17	6	M10 × 1.25	22	2.8	12	10
40	35	32	4	3	28	19	8	M14 × 1.5	28	2.8	16	14
50	37	33	5	4	28	27	11	M18 × 1.5	38	2.8	20	17
63	37	33	5	4	28	27	11	M18 × 1.5	40	2.8	20	17
80	44	39	6	5	33	32	13	M22 × 1.5	45	4	25	22
100	50	45	7	5	38	36	13	M26 × 1.5	55	4	32	27

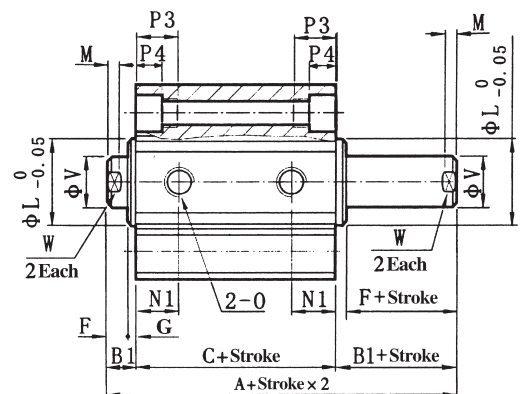
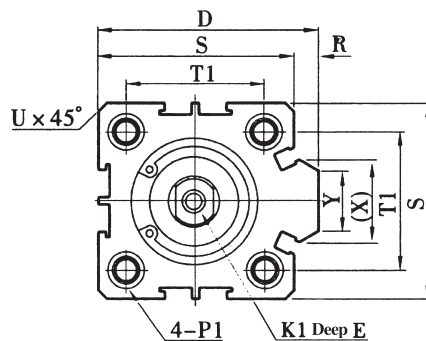
SDAD Series

Dimension:

■ ϕ 12~16



■ ϕ 20~100



Thin cylinder

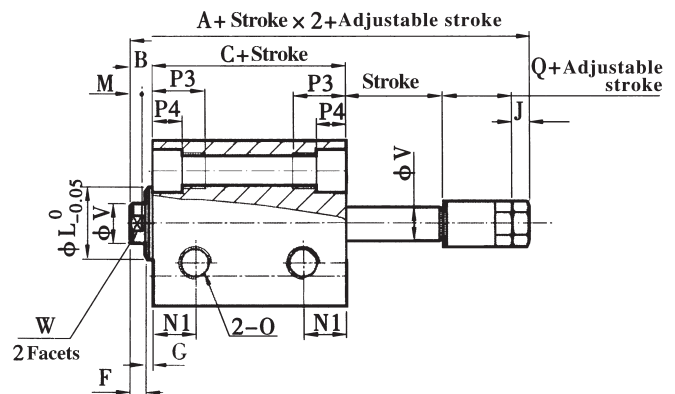
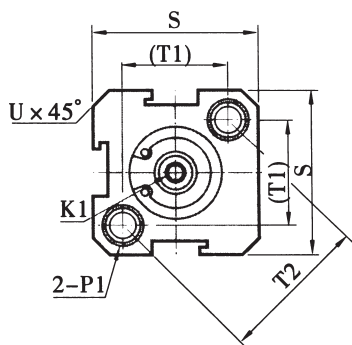
type symbol/bore	standard			with magnet			D	E		F	G	K1	L	M	N1
	A	B	C	A	B	C		stroke ≤ 10	stroke > 10						
12	27	5	17	37	5	27	-	6		4	1	M3 × 0.5	10.2	2.8	6.3
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3 × 0.5	11	2.8	7.3
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(stroke=5 ,be6.5)		4	1.5	M4 × 0.7	16	2.8	7.5
25	33	6	21	43	6	31	42	10(stroke=5,be7)		4	2	M5 × 0.8	17	2.8	8
32	38.5	7	24.5	48.5	7	34.5	50	8	12	4	3	M6 × 1	22	2.8	9
40	40	7	26	50	7	36	58.5	9	12	4	3	M8 × 1.25	28	2.8	10
50	46	9	28	56	9	38	71.5	11	15	5	4	M10 × 1.5	38	2.8	10.5
63	50	9	32	60	9	42	84.5	11	15	5	4	M10 × 1.5	40	3.5	11.8
80	63	11	41	73	11	51	104	14	20	6	5	M14 × 1.5	45	4	14.5
100	75	12	51	85	12	61	124	18	20	7	5	M18 × 1.5	55	4	20.5

symbol/bore	P3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5 × 0.8	both sides: φ 6.5 thread M5 × 0.8 through hole: φ 4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5 × 0.8	both sides: φ 6.5 thread M5 × 0.8 through hole: φ 4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5 × 0.8	both sides: φ 6.5 thread M5 × 0.8 through hole: φ 4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5 × 0.8	both sides: φ 8.2 thread M6 × 1.0 through hole : φ 4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	both sides: φ 8.2 thread M6 × 1.0 through hole : φ 4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	both sides: φ 10 thread M8 × 1.25 through hole: φ 6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	both sides: φ 11 thread M8 × 1.25 through hole: φ 6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	both sides: φ 11 thread M8 × 1.25 through hole: φ 6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	both sides: φ 14 thread M12 × 1.75 through hole: φ 9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	both sides: φ 17.5 thread M14 × 2 through hole: φ 11.3	30	13	10	114	90	-	3.65	32	27	35	26

SDAJ Series

Dimension:

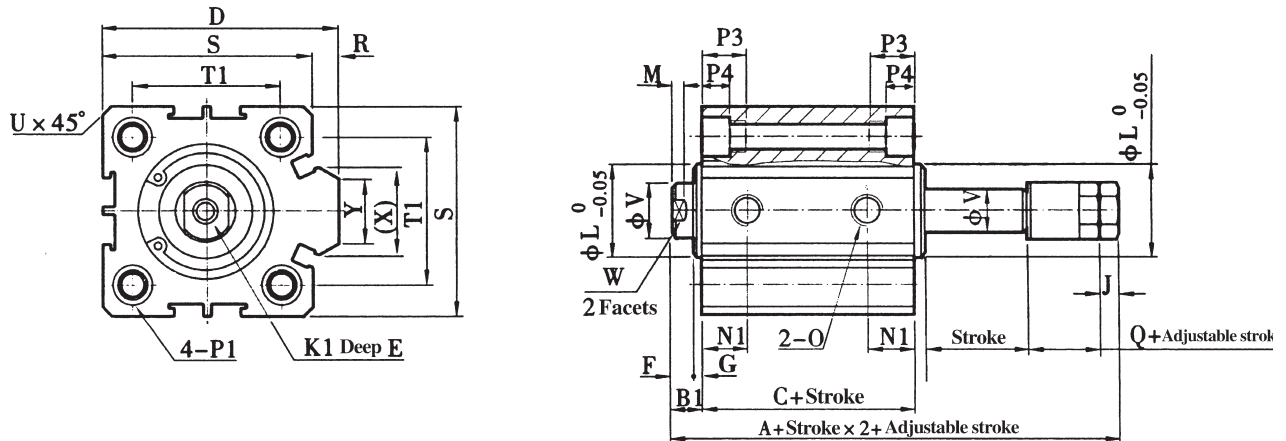
■ φ 12~16



Thin Cylinder

Dimension:

■ ϕ 20~100



Type symbol/bore	standard type			with magnet			D	E		F	G	J	K1	L	M	N1
	A	B	C	A	B	C		stroke ≤ 10	stroke > 10							
12	40	5	17	50	5	27	-	6		4	1	4	M3 × 0.5	10.2	2.8	6.3
16	42.5	5.5	18.5	52.5	5.5	28.5	-	6		4	1.5	4	M3 × 0.5	11	2.8	7.3
20	47.5	5.5	19.5	57.5	5.5	29.5	36	8(stroke=5,be 6.5)		4	1.5	5	M4 × 0.7	16	2.8	7.5
25	54	6	21	64	6	31	42	10(stroke=5,be7)		4	2	6	M5 × 0.8	17	2.8	8
32	61.5	7	24.5	71.5	7	34.5	50	8	12	4	3	6	M6 × 1	22	2.8	9
40	65	7	26	75	7	36	58.5	9	12	4	3	8	M8 × 1.25	28	2.8	10
50	73	9	28	83	9	38	71.5	11	15	5	4	11	M10 × 1.5	38	2.8	10.5
63	77	9	32	87	9	42	84.5	11	15	5	4	11	M10 × 1.5	40	3.5	11.8
80	94	11	41	104	11	51	104	14	20	6	5	13	M14 × 1.5	45	4	14.5
100	105	12	51	115	12	61	124	18	20	7	5	13	M18 × 1.5	55	4	20.5

symbol/bore	P3	O	P1	P3	P4	Q	R	S	T1	T2	U	V	W	X	Y
12	6	M5 × 0.8	both sides : ϕ 6.5 thread M5 × 0.8 through hole: ϕ 4.2	12	4.5	13	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5 × 0.8	both sides : ϕ 6.5 thread M5 × 0.8 through hole: ϕ 4.2	12	4.5	13	-	29	19.8	28	1.6	6	5	-	-
20	-	M5 × 0.8	both sides : ϕ 6.5 thread M5 × 0.8 through hole: ϕ 4.2	14	4.5	16	2	34	24	-	2.1	8	6	11.3	10
25	-	M5 × 0.8	both sides : ϕ 8.2 thread M6 × 1.0 through hole: ϕ 4.6	15	5.5	19	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	both sides : ϕ 8.2 thread M6 × 1.0 through hole: ϕ 4.6	16	5.5	21	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	both sides : ϕ 10M thread 8 × 1.25 through hole: ϕ 6.5	20	7.5	21	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	both sides : ϕ 11 thread M8 × 1.25 through hole: ϕ 6.5	25	8.5	21	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	both sides : ϕ 11 thread M8 × 1.25 through hole: ϕ 6.5	25	8.5	21	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	both sides : ϕ 14 thread M12 × 1.75 through hole: ϕ 9.2	25	10.5	24	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	both sides : ϕ 17.5 thread M14 × 2 through hole: ϕ 11.3	30	13	24	10	114	90	-	3.65	32	27	35	26