

Compact Cylinder

Double Acting, Single Rod ; Single Acting, Spring Return / Extend

Series SDA, SSA, STA

◆ How to Order

SDA S 20 — 30 — B

Rod end thread

Nil	Female thread	B	Male thread	N	No thread
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* The length of no thread's rod is the same as the rod as with female thread.

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

SDA Series									
12	16	20	25	32	40	50	63	80	100
SSA, STA Series									
12	16	20	25	32	40				

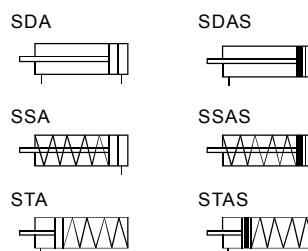
Magnet

Nil	Without magnet	S	Built-in magnet
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Model

SDA	Double-acting	SSA	Single acting, spring return
STA	Single acting, spring extend		

Symbol



◆ Specifications

Bore size (mm)		12	16	20	25	32	40	50	63	80	100
Action	SDA	Double acting, single rod / double rod									
	SSA / STA	Single acting, spring return / extend								-	
Fluid		Filtered compressed air									
Proof pressure		1.5 MPa									
Operating pressure range	SDA	0.1~0.9 MPa									
	SSA / STA	0.2~0.9 MPa								-	
Ambient and fluid temperature		-10~70°C (No freezing)									
Port size		M5×0.8			Rc1/8			Rc1/4		Rc3/8	
Piston rod thread	Female thread	M3×0.5	M4×0.7	M5×0.8	M6×1.0	M8×1.25	M10×1.5	M14×1.5	M18×1.5	M26×1.5	
	Male thread	M5×0.8	M6×1.0	M8×1.25	M10×1.25	M14×1.5	M18×1.5	M22×1.5	M26×1.5		
Cushion		Rubber bumper									

Note): Please contact with ANSSION for the mounting accessories.

Bore size (mm)	Standard stroke (mm)	
	Double acting, single / double rod	Single acting, spring return / extend
12, 16	5~60	5~30 Only for φ 12,16,20,25,32,40
20	5~85	
25	5~110	
32 to 100	5~130	

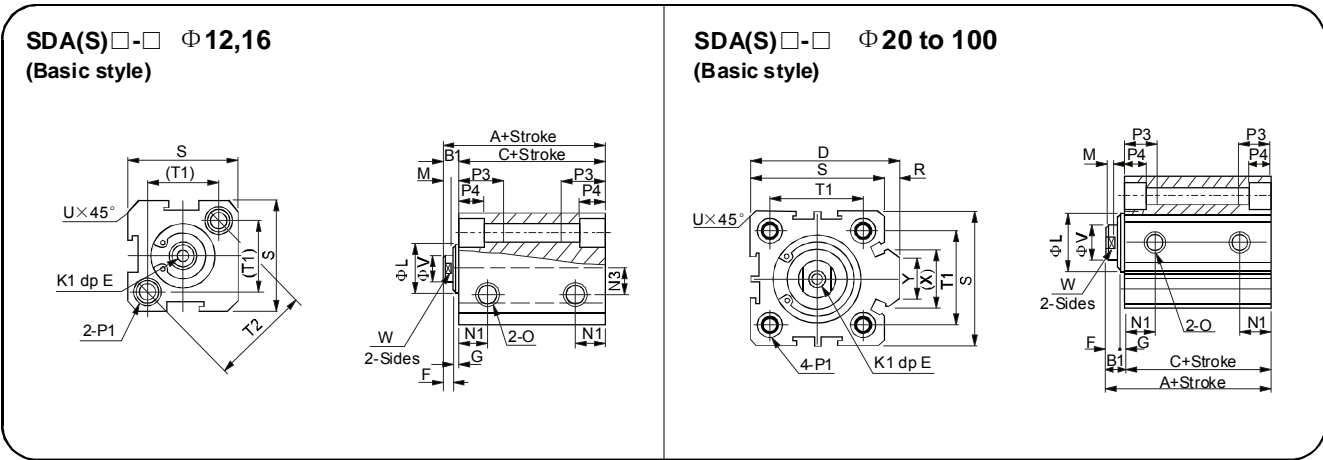
* When stroke exceeds the standard range, Please contact with ANSSION.

Compact Cylinder

Double Acting, Single Rod ; Single Acting, Spring Return / Extend

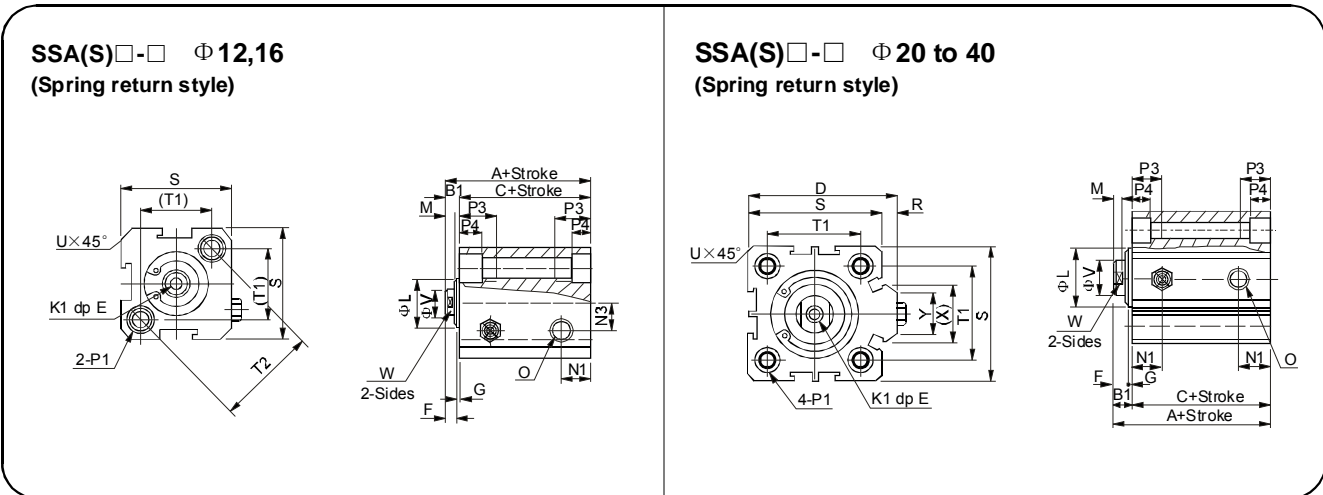
Series SDA, SSA, STA

◆ Dimensions



Bore size(mm)	Without magnet			Built-in magnet			D	E		F	G	K1	L	M	N1	N3
	A	B1	C	A	B1	C		ST≤10	ST>10							
12	22	5	17	32	5	27	-	6	4	1	M3×0.5	10.2	2.8	6.3	6	
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	6.5	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4×0.7	15	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	M6×1.0	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	2.8	11.8	-	
80	52	11	41	62	11	51	104	15	6	5	M14×1.5	45	4	14.5	-	
100	63	12	51	73	12	61	124	18	7	5	M18×1.5	55	4	20.5	-	

Bore size(mm)	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5×0.8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	Rc1/8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	Rc1/8	Both sides: Φ10 Thread: M8×1.25 Thru.hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	Rc1/4	Both sides: Φ11 Thread: M8×1.25 Thru.hole: Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	Rc1/4	Both sides: Φ11 Thread: M8×1.25 Thru.hole: Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	Rc3/8	Both sides: Φ14 Thread: M12×1.75 Thru.hole: Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	Rc3/8	Both sides: Φ17.5 Thread: M14×2 Thru.hole: Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26



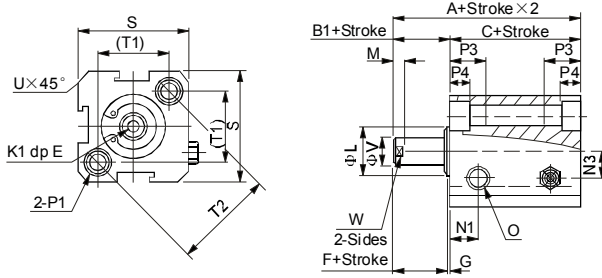
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CS Auto switch
D Auto switch
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Compact Cylinder

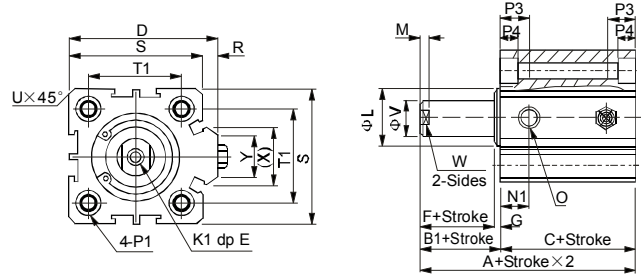
Double Acting, Single Rod ; Single Acting, Spring Return / Extend

Series SDA, SSA, STA

STA(S) □-□ Φ 12,16
(Spring extend)



STA(S) □-□ Φ 20 to 40
(Spring extend)



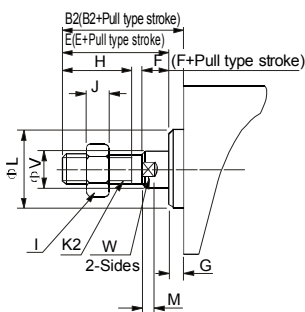
SSA(S) □-□ / STA(S) □-□

Bore size (mm)	Without magnet			Built-in magnet			D	E	F	G	K1	L	M	N1	N3				
	A	B1	C	A	B1	C													
Stroke	ST≤10	ST>10	B1	ST≤10	ST>10	ST≤10	ST>10	B1	ST≤10	ST>10									
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4×0.7	15	2.8	7.5	-
25	37	47	6	31	41	47	57	6	41	51	42	10	4	2	M5×0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6×1.0	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10	-

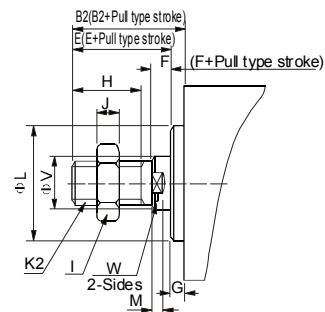
Bore size	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5×0.8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	Rc1/8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	Rc1/8	Both sides: Φ10 Thread: M8×1.25 Thru.hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

* Max.stroke up to 30mm, For longer stroke, Please contact with ansion.

Male thread Φ 12 to 16



Male thread Φ 20 to 100



Bore size (mm)	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5×0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6×1.0	15	2.8	8	6
25	23	21	4	2	15	12	6	M8×1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10×1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14×1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18×1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M18×1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22×1.5	45	4	25	22
100	50	45	7	5	35	36	13	M26×1.8	55	4	32	27