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Compact cylinder——SDA Series

■ Installation and application

- 1、When load changes in the work, the cylinder with abundant output capacity shall be selected;
- 2、Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion;
- 3、Necessary protection measure shall be taken in the environment with larger humidity, much dust or water drops, oil dust and welding dregs;
- 4、Dirty substances in the pipe must be cleared away before cylinder is connected with pipeline to prevent the entrance of sundries into the cylinder;
- 5、The medium used by cylinder shall be filtered by the filter core of above 40um;
- 6、As both of the front cover and piston of the cylinder are short, typically too large stroke can not be selected;
- 7、Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing;
- 8、The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life;
- 9、If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface.
Anti-dust jam cap shall be added in air intake and outlet orifices. The front and back cover can not be dismantled, which shall be especially noticed.

■ Criteria for selection: Cylinder thrust

Unit: Newton (N)

Bore size (mm)	Rod size (mm)	Acting type	Pressure area (mm ²)	Operating pressure MPa						
				0.1	0.2	0.3	0.4	0.5	0.6	0.7
12	6	Single acting—Push type	113.1	—	12.6	23.9	35.2	46.5	57.9	69.2
		Single acting—Pull type	84.8	—	7.0	15.4	23.9	32.4	40.9	49.4
		Double acting Push side	113.1	—	22.6	33.9	45.2	56.5	67.9	79.2
		Double acting Pull side	84.8	—	17.0	25.4	33.9	42.4	50.9	59.4
16	6	Single acting—Push type	201.1	—	20.2	40.3	60.4	80.5	100.6	120.7
		Single acting—Pull type	172.8	—	14.6	31.8	49.1	66.4	83.7	101.0
		Double acting Push side	201.1	—	40.2	60.3	80.4	100.5	120.6	140.7
		Double acting Pull side	172.8	—	34.6	51.8	69.1	86.4	103.7	121.0
20	8	Single acting—Push type	314.2	—	39.8	71.2	102.7	134.1	165.5	196.9
		Single acting—Pull type	263.9	—	29.8	56.2	82.6	108.9	135.3	161.7
		Double acting Push side	314.2	—	62.8	94.2	125.7	157.1	188.5	219.9
		Double acting Pull side	263.9	—	52.8	79.2	105.6	131.9	158.3	184.7
25	10	Single acting—Push type	490.9	—	69.7	118.8	167.8	216.9	266.0	315.1
		Single acting—Pull type	412.3	—	54.0	95.2	136.4	177.7	218.9	260.1
		Double acting Push side	490.9	—	98.2	147.3	196.3	245.4	294.5	343.6
		Double acting Pull side	412.3	—	82.5	123.7	164.9	206.2	247.4	288.6
32	12	Single acting—Push type	804.2	—	105.3	185.8	266.2	346.6	427.0	507.5
		Single acting—Pull type	691.2	—	82.7	151.8	221.0	290.1	359.2	428.3
		Double acting Push side	804.2	—	160.8	241.3	321.7	402.1	482.5	563.0
		Double acting Pull side	691.2	—	138.2	207.3	276.5	345.6	414.7	483.8
40	16	Single acting—Push type	1256.6	—	168.6	294.3	420.0	545.6	671.3	796.9
		Single acting—Pull type	1055.6	—	128.4	234.0	339.5	445.1	550.6	656.2
		Double acting Push side	1256.6	125.7	251.3	377.0	502.7	628.3	754.0	879.6
		Double acting Pull side	1055.6	105.6	211.1	316.7	422.2	527.8	633.3	738.9
50	20	Single acting—Push type	1963.5	89.3	285.7	482.0	678.4	874.7	1071.1	1267.4
		Single acting—Pull type	1649.3	57.9	222.9	387.8	552.7	717.7	882.6	1047.5
		Double acting Push side	1963.5	196.3	392.7	589.0	785.4	981.7	1178.1	1374.4
		Double acting Pull side	1649.3	164.9	329.9	494.8	659.7	824.7	989.6	1154.5
63	20	Single acting—Push type	3117.2	135.7	447.4	759.2	1070.9	1382.6	1694.3	2006.1
		Single acting—Pull type	2803.1	104.3	384.6	664.9	945.2	1225.5	1505.9	1786.2
		Double acting Push side	3117.2	311.7	623.4	935.2	1246.9	1558.6	1870.3	2182.1
		Double acting Pull side	2803.1	280.3	560.6	840.9	1121.2	1401.5	1681.9	1962.2
80	25	Double acting Push side	5026.5	502.7	1005.3	1508.0	2010.6	2513.3	3015.9	3518.6
		Double acting Pull side	4535.7	453.6	907.1	1360.7	1814.3	2267.8	2721.4	3175.0
100	32	Double acting Push side	7854.0	785.4	1570.8	2356.2	3141.6	3927.0	4712.4	5497.8
		Double acting Pull side	7049.7	705.0	1409.9	2114.9	2819.9	3524.9	4229.8	4934.8

■ Product series

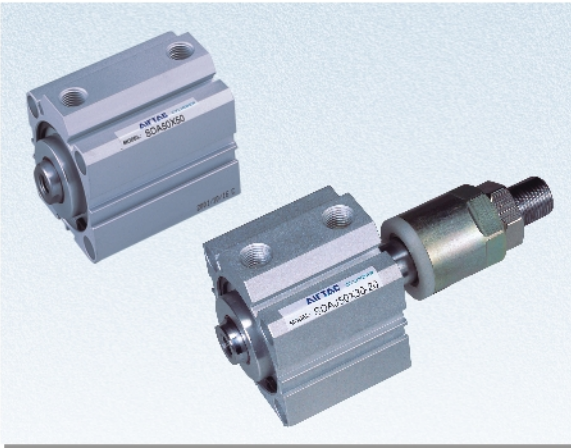
Series name	Single acting type: SSA, STA 	Double rod type: SDAD 	Adjustable stroke type: SDAJ 	Duplex type: SDAT Duplex-end type: SDAW 	Double acting type: SDA 	Page					
Acting type	Single acting	Double acting				V-16					
Bore size	121620253240506380100										VI-39
Collocation of sensor switch	CS1-J	●	●	●	●	●	●	●	●		
	CS1-JX	●	●	●	●	●	●	●	●		
	CS1-JN	●	●	●	●	●	●	●	●		
	CS1-JP	●	●	●	●	●	●	●	●		
	CS1-G	●	●	●	●	●	●	●	●		
	CS1-GX	●	●	●	●	●	●	●	●		
	CS1-GN	●	●	●	●	●	●	●	●		
	CS1-GP	●	●	●	●	●	●	●	●		



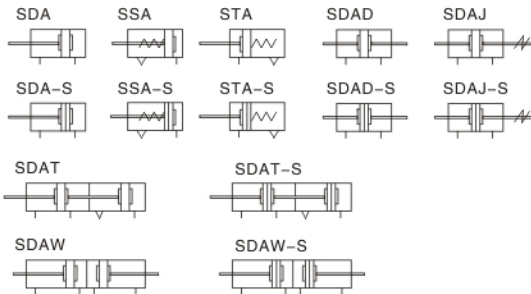
Compact cylinder

SDA Series

AIRTAC



Symbol



Product feature

- 1、Manufactured by our enterprise;
- 2、Riveted structure is adopted to connect the cylinder body and back cover, and piston and piston rod to make it compact and reliable;
- 3、The inner diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability;
- 4、The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of oil reservation;
- 5、Compact structure can effectively save installation space;
- 6、There are magnetic switch slots around the cylinder body, which is convenient to install sensor switch;
- 7、Mounting accessories with various specifications are optional.

Specification

Bore size (mm)		12	16	20	25	32	40	50	63	80	100
Acting type		Double acting type									
		Single acting-Push type、Single acting-Pull type									-
Fluid		Air(to be filtered by 40um filter element)									
Operating pressure	Double acting	0.1~1.0MPa(14~145Psi)									
	Single acting	0.2~1.0MPa(28~145Psi)									
Proof pressure		1.5MPa(215Psi)									
Temperature ℃		-20~80									
Speed range mm/s		Double acting type: 30~500					Single acting type: 50~500				
Stroke tolerance		+1.0 0									
Cushion type		Bumper									
Port size ①		M5 × 0.8				1/8"		1/4"		3/8"	

① PT thread, NPT thread and G thread are available;
Add: Refer to PVI-39~VI-50 for detail of sensor switch.

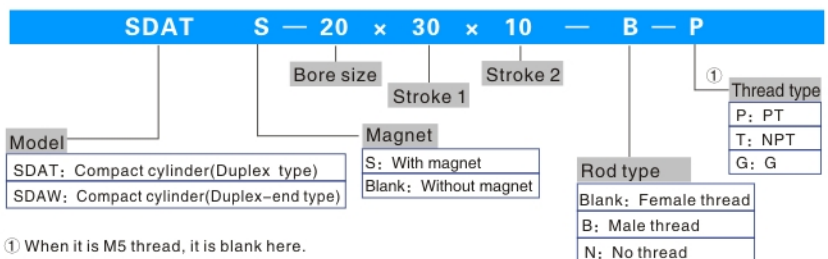
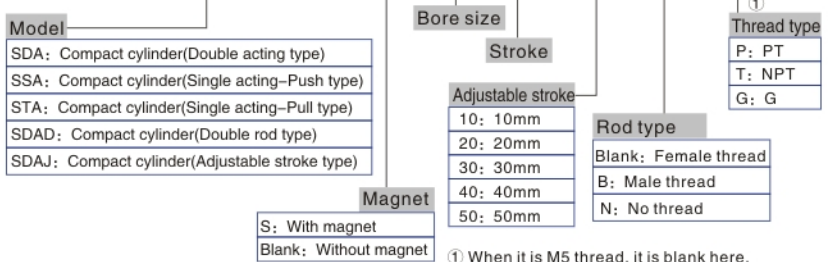
Stroke

Bore size (mm)		Standard stroke (mm)	Max. stroke	Available stroke
12	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55	65
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65	80
	Single acting type	5 10 15 20 25 30	30	-
16	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	100
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130
	Single acting type	5 10 15 20 25 30	30	-
20	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	130
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	150
	Single acting type	5 10 15 20 25 30	30	-
25	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	150
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120	180
	Single acting type	5 10 15 20 25 30	30	-
32	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	180
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130	210
	Single acting type	5 10 15 20 25 30	30	-
40	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	210
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130	240
	Single acting type	5 10 15 20 25 30	30	-
50	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	240
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130	270
	Single acting type	5 10 15 20 25 30	30	-
63	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	270
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130	300
	Single acting type	5 10 15 20 25 30	30	-
80	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	300
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130	330
	Single acting type	5 10 15 20 25 30	30	-
100	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	330
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130	360
	Single acting type	5 10 15 20 25 30	30	-

Note: 1、Within allowable stroke scope, when the stroke is larger than the maximum value, it shall be treated as non-standard one. Please contact the company for other special strokes.
2、The non-standard stroke within the scope of maximum stroke is transformed according to the standard stroke of the upper grade and its shape and dimension are equal to that of standard stroke cylinder of the upper grade. For instance, the non-standard stroke cylinder whose stroke is 23 is transformed from the standard cylinder whose standard stroke is 25, and their shape and dimension are the same.

Ordering code

SDA	S	20	x	30	—	B	—	P		
SDAD	S	20	x	30	—	B	—	P		
SDAJ	S	20	x	30	—	30	—	B	—	P



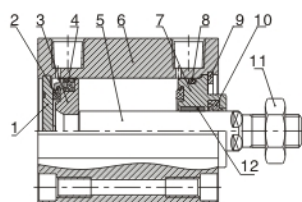
① When it is M5 thread, it is blank here.

Compact cylinder

SDA Series

Inner structure and material of major parts

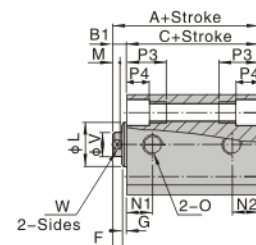
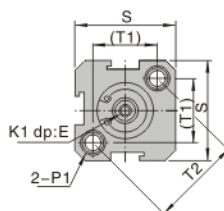
■ Dimensions



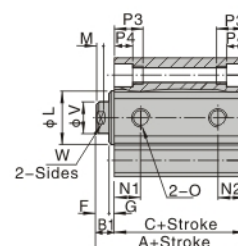
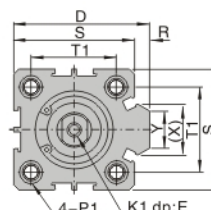
NO.	Item	Material
	Bore size	12, 16 20, 25-40 50-100
1	Back cover	Aluminum alloy
2	Bumper	NBR
3	Piston	Brass
4	Piston O-ring	Aluminum alloy
5	Piston rod	NBR
6	Body	Carbon steel (with 20um hard chrome plated)
7	Front cover	Brass
8	O-ring	Aluminum alloy
9	C clip	NBR
10	Front cover packing	Spring steel
11	Piston nut	NBR
12	Bushing	Carbon steel
		Wear resistant material

SDA

φ 12 φ 16



φ 20~ φ 100



Model	Without magnet		With magnet		B1	D	E	F	G	K1	L	M	N1		N2	
Bore size\Item	A	C	A	C	5	—	6	4	1	M3 × 0.5	10.2	3	S=5	S>5	S=5	S>5
12	22	17	32	27	5	—	6	4	1	M3 × 0.5	10.2	3	7.5	—	5	—
16	24	18.5	34	28.5	5.5	—	6	4	1.5	M3 × 0.5	11	3	8	—	5.5	—
20	25	19.5	35	29.5	5.5	36	8	4	1.5	M4 × 0.7	13	3	9	—	5.5	—
25	27	21	37	31	6	42	10	4	2	M5 × 0.8	17	3	9.2	—	5.5	—
32	31.5	24.5	41.5	34.5	7	50	12	4	2.4	M6 × 1	22	3	9	6.5	9	—
40	33	26	43	36	7	58.5	12	4	3	M8 × 1.25	28	3	9.5	—	7.5	—
50	37	28	47	38	9	71.5	15	5	4	M10 × 1.5	38	3	8	10.5	8	10.5
63	41	32	51	42	9	84.5	15	5	4	M10 × 1.5	40	3	9.5	12	9.5	11
80	52	41	62	51	11	104	20	6	5	M14 × 1.5	45	4	11.5	14.5	11.5	14.5
100	63	51	73	61	12	124	20	7	5	M18 × 1.5	55	4	16	20.5	16	20.5

Bore size\Item	O	P1	P3	P4	R	S	T1	T2	V	W	X	Y
12	M5 × 0.8	2-Sides: φ 6.5 Thread: M5 × 0.8 Thru. hole: φ 4.2	12	4.5	—	25	16.3	23	6	5	—	—
16	M5 × 0.8	2-Sides: φ 6.5 Thread: M5 × 0.8 Thru. hole: φ 4.2	12	4.5	—	29	19.8	28	6	5	—	—
20	M5 × 0.8	2-Sides: φ 6.5 Thread: M5 × 0.8 Thru. hole: φ 4.2	14	4.5	2	34	24	—	8	6	11.3	10
25	M5 × 0.8	2-Sides: φ 8.2 Thread: M6 × 1.0 Thru. hole: φ 4.6	15	5.5	2	40	28	—	10	8	12	10
32	1/8"	2-Sides: φ 8.2 Thread: M6 × 1.0 Thru. hole: φ 4.6	16	5.5	6	44	34	—	12	10	18.3	15
40	1/8"	2-Sides: φ 10 Thread: M8 × 1.25 Thru. hole: φ 6.5	20	7.5	6.5	52	40	—	16	14	21.3	16
50	1/4"	2-Sides: φ 11 Thread: M8 × 1.25 Thru. hole: φ 6.5	25	8.5	9.5	62	48	—	20	17	30	20
63	1/4"	2-Sides: φ 11 Thread: M8 × 1.25 Thru. hole: φ 6.5	25	8.5	9.5	75	60	—	20	17	28.7	20
80	3/8"	2-Sides: φ 14 Thread: M12 × 1.75 Thru. hole: φ 9.2	25	10.5	10	94	74	—	25	22	36	26
100	3/8"	2-Sides: φ 17.5 Thread: M14 × 2 Thru. hole: φ 11.3	30	13	10	114	90	—	32	27	35	26

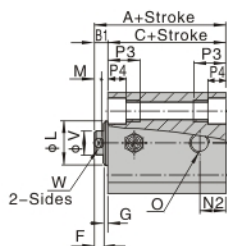
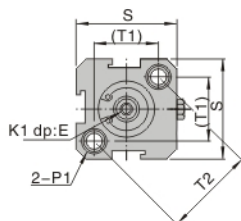
Compact cylinder

SDA Series

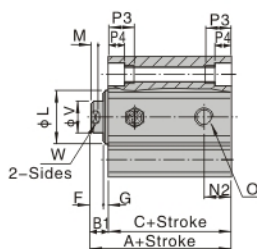
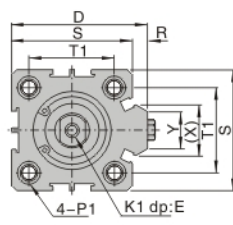
AIRTAC

SSA

φ 12 φ 16

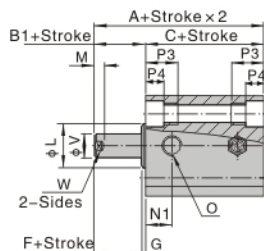
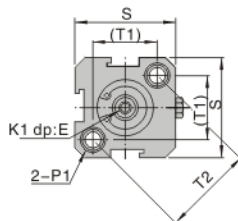


φ 20~φ 63

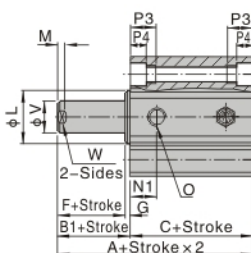
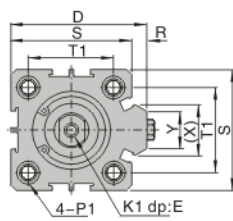


STA

φ 12 φ 16



φ 20~φ 63



Model	Without magnet				With magnet			
Bore size\Item	A		C		A		C	
Stroke	≤10	>10	≤10	>10	≤10	>10	≤10	>10
12	32	42	27	37	42	52	37	47
16	34	44	28.5	38.5	44	54	38.5	48.5
20	35	45	29.5	39.5	45	55	39.5	49.5
25	37	47	31	41	47	57	41	51
32	41.5	51.5	34.5	44.5	51.5	61.5	44.5	54.5
40	43	53	36	46	53	63	46	56
50	47	57	38	48	57	67	48	58
63	51	61	42	52	61	71	52	62

Bore size\Item	B1	D	E	F	G	K1	L	M	N1	N2
12	5	—	6	4	1	M3 × 0.5	10.2	3	7.5	5
16	5.5	—	6	4	1.5	M3 × 0.5	11	3	8	5.5
20	5.5	36	8	4	1.5	M4 × 0.7	13	3	9	5.5
25	6	42	10	4	2	M5 × 0.8	17	3	9.2	5.5
32	7	50	12	4	2.4	M6 × 1	22	3	9	9
40	7	58.5	12	4	3	M8 × 1.25	28	3	9.5	7.5
50	9	71.5	15	5	4	M10 × 1.5	38	3	10.5	10.5
63	9	84.5	15	5	4	M10 × 1.5	40	3	12	11

Bore size\Item	O	P1
12	M5 × 0.8	2-Sides: φ 6.5Thread M5 × 0.8Thru.hole: φ 4.2
16	M5 × 0.8	2-Sides: φ 6.5Thread M5 × 0.8Thru.hole: φ 4.2
20	M5 × 0.8	2-Sides: φ 6.5Thread M5 × 0.8Thru.hole: φ 4.2
25	M5 × 0.8	2-Sides: φ 8.2Thread M6 × 1.0Thru.hole: φ 4.6
32	1/8"	2-Sides: φ 8.2Thread M6 × 1.0Thru.hole: φ 4.6
40	1/8"	2-Sides: φ 10Thread M8 × 1.25Thru.hole: φ 6.5
50	1/4"	2-Sides: φ 11Thread M8 × 1.25Thru.hole: φ 6.5
63	1/4"	2-Sides: φ 11Thread M8 × 1.25Thru.hole: φ 6.5

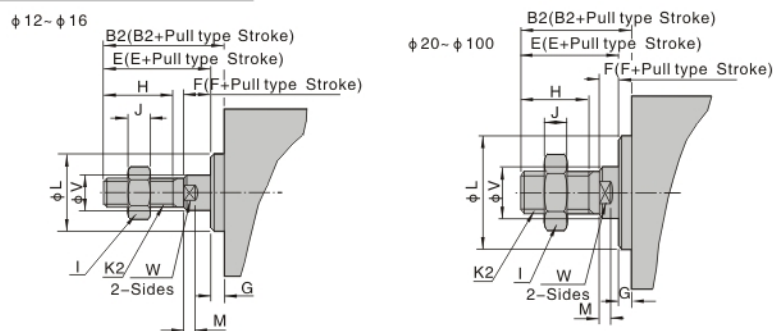
Bore size\Item	P3	P4	R	S	T1	T2	V	W	X	Y
12	12	4.5	—	25	16.2	23	6	5	—	—
16	12	4.5	—	29	19.8	28	6	5	—	—
20	14	4.5	2	34	24	—	8	6	11.3	10
25	15	5.5	2	40	28	—	10	8	12	10
32	16	5.5	6	44	34	—	12	10	18.3	15
40	20	7.5	6.5	52	40	—	16	14	21.3	16
50	25	8.5	9.5	62	48	—	20	17	30	20
63	25	8.5	9.5	75	60	—	20	17	28.7	20



Compact cylinder

SDA Series

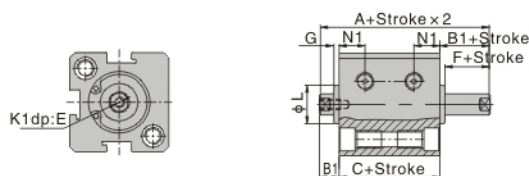
Dimensions of male thread



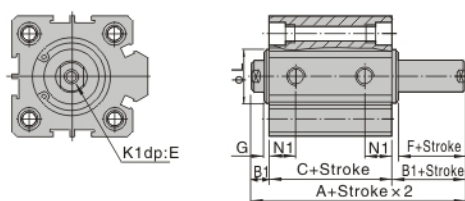
Item Bore size	B2	E	F	G		H	I	J	K2	L	M	V	W
				Others	SDAD\SDAJ								
12	17	16	4	1		10	8	4	M5×0.8	10.2	3	6	5
16	17.5	16	4	1.5		10	8	4	M5×0.8	11	3	6	5
20	20.5	19	4	1.5		13	10	5	M6×1.0	13	3	8	6
25	23	21	4	2		15	12	6	M8×1.25	17	3	10	8
32	25	22	4	2.4	3	15	17	6	M10×1.25	22	3	12	10
40	35	32	4	3		25	19	8	M14×1.5	28	3	16	14
50	37	33	5	4		25	27	11	M18×1.5	38	3	20	17
63	37	33	5	4		25	27	11	M18×1.5	40	3	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	M26×1.5	55	4	32	27

SDAD

φ12 φ16

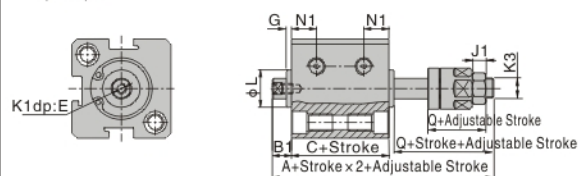


φ20~φ100

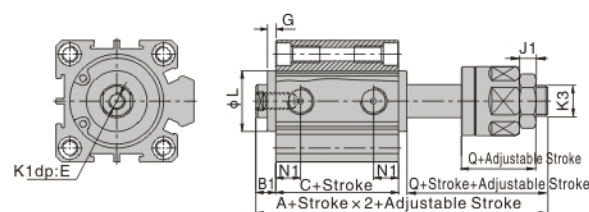


SDAJ

φ12 φ16



φ20~φ100



Model Bore size/Item	Without magnet		With magnet		B1	E		Q	J1
	A	C	A	C		S≤10	S>10		
12	40	17	50	27	5	6		17	4
16	42.5	18.5	52.5	28.5	5.5	6		17	4
20	47.5	19.5	57.5	29.5	5.5	8(S=5 is 6.5)		21	5
25	54	21	64	31	6	10(S=5 is 7)		25	6
32	61.5	24.5	71.5	34.5	7	8	12	27	6
40	64	26	74	36	7	8	12	28	7
50	70	28	80	38	9	8	15	29	8
63	74	32	84	42	9	10	15	29	8
80	92.5	41	102.5	51	11	13	20	35.5	10
100	110.5	51	120.5	61	12	18	20	42.5	13.5

Bore size/Item Stroke	G	K1	K3	L	N1	
					S=5	S>5
12	1	M3×0.5	M5X0.8	10.2	5.5	6.3
16	1.5	M3×0.5	M5X0.8	11	6.5	7.3
20	1.5	M4×0.7	M6X1.0	15	7.5	
25	2	M5×0.8	M8X1.25	17	8	
32	3	M6×1	M10X1.25	22	8	9
40	3	M8×1.25	M12X1.25	28	8	10
50	4	M10×1.5	M16X1.5	38	8	10.5
63	4	M10×1.5	M16X1.5	40	9.5	11.8
80	5	M14×1.5	M20X1.5	45	11.5	14.5
100	5	M18×1.5	M27X2.0	55	16	20.5

Remark: 1、The unmarked dimension is the same as SDA standard type;
2、Please refer to PV-19 for the dimension of male thread.

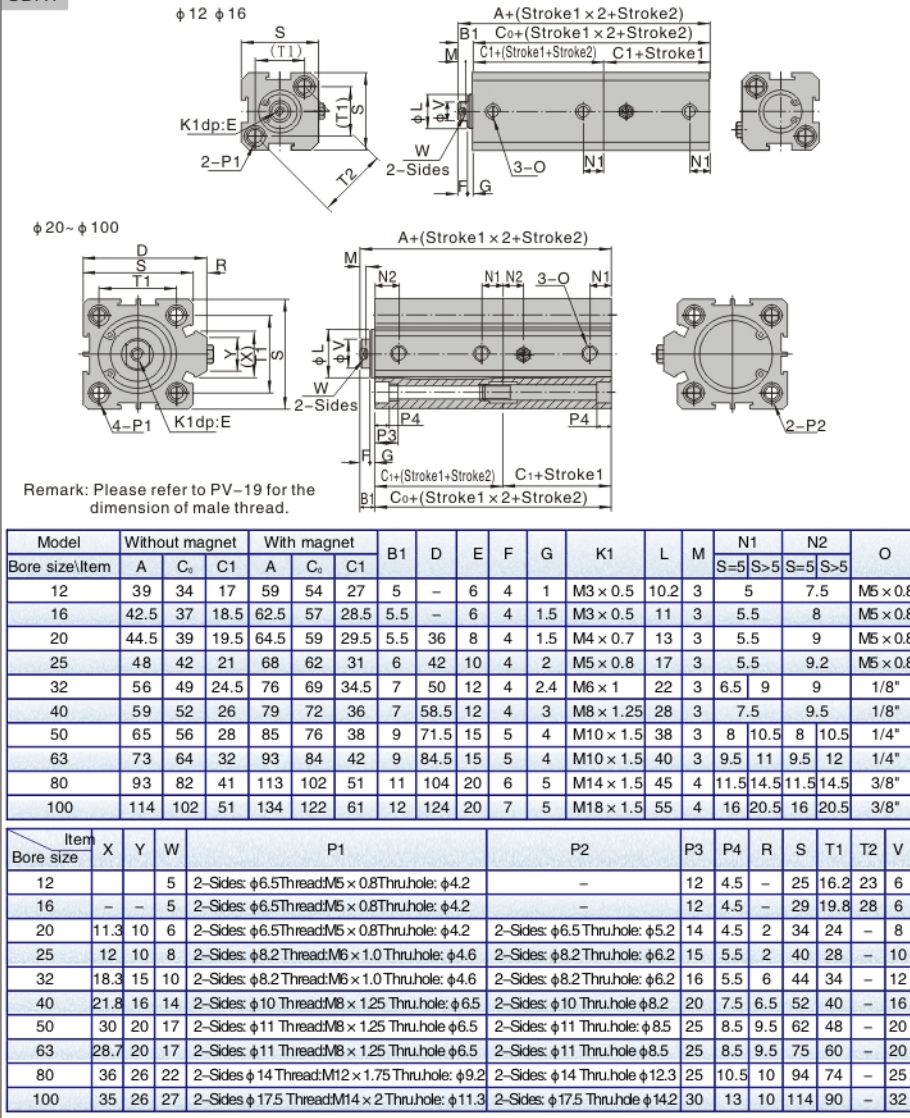
Model Bore size/Item	Without magnet		With magnet		E		B1	F	G	K1	L	N1	
	A	C	A	C	S≤10	S>10						S=5	S>5
12	27	17	37	27	6		5	4	1	M3×0.5	10.2	5.5	6.3
16	29.5	18.5	39.5	28.5	6		5.5	4	1.5	M3×0.5	11	6.5	7.3
20	30.5	19.5	40.5	29.5	8 (S=5 is 6.5)		5.5	4	1.5	M4×0.7	15	7.5	
25	33	21	43	31	10 (S=5 is 7)		6	4	2	M5×0.8	17	8	
32	38.5	24.5	48.5	34.5	8	12	7	4	3	M6×1	22	8	9
40	40	26	50	36	8	12	7	4	3	M8×1.25	28	8	10
50	46	28	56	38	8	15	9	5	4	M10×1.5	38	8	10.5
63	50	32	60	42	10	15	9	5	4	M10×1.5	40	9.5	11.8
80	63	41	73	51	13	20	11	6	5	M14×1.5	45	11.5	14.5
100	75	51	85	61	18	20	12	7	5	M18×1.5	55	16	20.5

Remark: 1、The unmarked dimension is the same as SDA standard type;
2、Please refer to PV-19 for the dimension of male thread.

Compact cylinder

SDA Series

SDAT

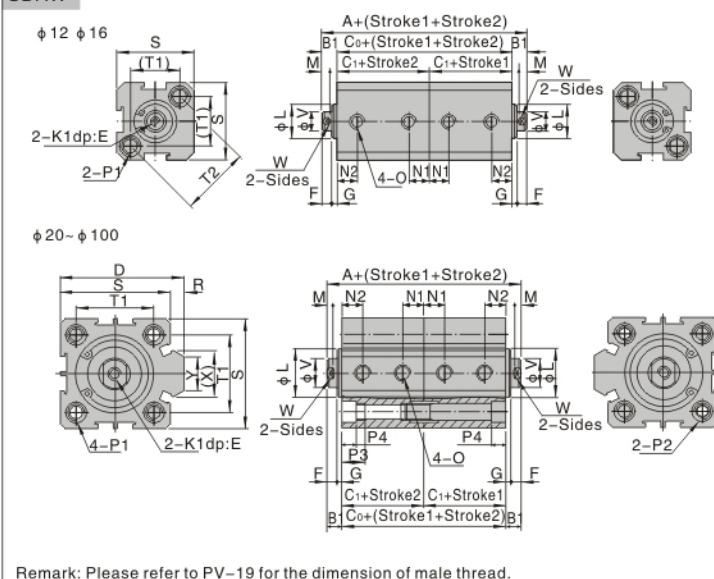


Model	Without magnet			With magnet			B1
	A	C ₀	C1	A	C ₀	C1	
Bore size\Item							
12	44	34	17	64	54	27	5
16	48	37	18.5	68	57	28.5	5.5
20	50	39	19.5	70	59	29.5	5.5
25	54	42	21	74	62	31	6
32	63	49	24.5	83	69	34.5	7
40	66	52	26	86	72	36	7
50	74	56	28	94	76	38	9
63	82	64	32	102	84	42	9
80	104	82	41	124	102	51	11
100	126	102	51	146	122	61	12

Bore size\Item	D	E	F	G	K1	L	M
12	-	6	4	1	M3 × 0.5	10.2	3
16	-	6	4	1.5	M3 × 0.5	11	3
20	36	8	4	1.5	M4 × 0.7	13	3
25	42	10	4	2	M5 × 0.8	17	3
32	50	12	4	2.4	M6 × 1	22	3
40	58.5	12	4	3	M8 × 1.25	28	3
50	71.5	15	5	4	M10 × 1.5	38	3
63	84.5	15	5	4	M10 × 1.5	40	3
80	104	20	6	5	M14 × 1.5	45	4
100	124	20	7	5	M18 × 1.5	55	4

Bore size\Item	N2		N1		O	X	Y
	S=5	S>5	S=5	S>5			
Stroke							
12	7.5		5		M5 × 0.8	-	-
16	8		5.5		M5 × 0.8	-	-
20	9		5.5		M5 × 0.8	11.3	10
25	9.2		5.5		M5 × 0.8	12	10
32	9		6.5	9	1/8"	18.3	15
40	9.5		7.5		1/8"	21.3	16
50	8	10.5	8	10.5	1/4"	30	20
63	9.5	12	9.5	11	1/4"	28.7	20
80	11.5	14.5	11.5	14.5	3/8"	36	26
100	16	20.5	16	20.5	3/8"	35	26

SDAW



Bore size\Item	P1							P2	
	W	P3	P4	R	S	T1	T2	V	
12	5	12	4.5	-	25	16.2	23	6	-
16	5	12	4.5	-	29	19.8	28	6	-
20	6	14	4.5	2	34	24	-	8	2-Sides: $\phi 6.5$ Thru.hole: $\phi 5.2$
25	8	15	5.5	2	40	28	-	10	2-Sides: $\phi 8.2$ Thru.hole: $\phi 6.2$
32	10	16	5.5	6	44	34	-	12	2-Sides: $\phi 8.2$ Thru.hole: $\phi 6.2$
40	14	20	7.5	6.5	52	40	-	16	2-Sides: $\phi 10$ Thru.hole: $\phi 8.2$
50	17	25	8.5	9.5	62	48	-	20	2-Sides: $\phi 11$ Thru.hole: $\phi 8.5$
63	17	25	8.5	9.5	75	60	-	20	2-Sides: $\phi 11$ Thru.hole: $\phi 8.5$
80	22	25	10.5	10	94	74	-	25	2-Sides: $\phi 14$ Thru.hole: $\phi 12.3$
100	27	30	13	10	114	90	-	32	2-Sides: $\phi 17.5$ Thru.hole: $\phi 14.2$