



Compact cylinder——SDA Series

Product series

Series name		Acting type	Bore size	Collocation of sensor switch			
				CS1-J	DS1-J	CS1-G	DS1-G
Double acting type: SDA	Adjustable stroke type: SDAJ	Double acting	12	●	●		
			16	●	●		
			20	●	●	●	●
			25	●	●	●	●
			32	●	●	●	●
			40	●	●	●	●
			50	●	●	●	●
			63	●	●	●	●
			80	●	●	●	●
			100	●	●	●	●
Double rod type: SDAD	Duplex type: SDAT Duplex-end type: SDAW	Single acting	12	●	●		
			16	●	●		
			20	●	●	●	●
			25	●	●	●	●
			32	●	●	●	●
			40	●	●	●	●
			50	●	●	●	●
			63	●	●	●	●
Single acting type: SSA, STA							

Page

282

419

SDA

Installation and application

- When load changes in the work, the cylinder with abundant output capacity shall be selected.
- Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion.
- Necessary protection measure shall be taken in the environment with higher humidity, much dust or water drops, oil dust and welding dregs.
- Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of particles into the cylinder.
- The medium used by cylinder shall be filtered to 40 μm or below.
- As both of the front cover and piston of the cylinder are short, typically too large stroke can not be selected.
- Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing.
- The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life.
- If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface.
Anti-dust caps shall be added in air inlet and outlet ports. The front and back cover can not be dismantled, which shall be especially noticed.

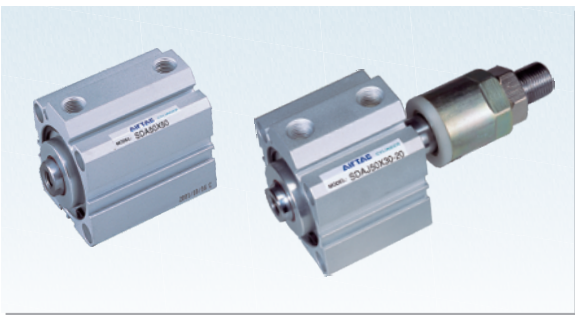
Criteria for selection: Cylinder thrust

Unit: Newton(N)

Bore size (mm)	Rod size (mm)	Acting type		Pressure area (mm ²)	Operating pressure(MPa)							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						0.1	0.2	0.3	0.4	0.5	0.6	0.7
12	6	Single	Push side	131.1	-	12.6	23.9	35.2	46.5	57.9	69.2	40	16	Single	Push side	1256.6	-	168.6	294.3	420.0	545.6	671.3	796.9
		acting	Pull side	84.8	-	7.0	15.4	23.9	32.4	40.9	49.4			acting	Pull side	1055.6	-	128.4	234.0	339.5	445.1	550.6	656.2
		Double	Push side	131.1	-	22.6	33.9	45.2	56.5	67.9	79.2			Double	Push side	1256.6	125.7	251.3	377.0	502.7	628.3	754.0	879.6
		acting	Pull side	84.8	-	17.0	25.4	33.9	42.4	50.9	59.4			acting	Pull side	1055.6	105.6	211.1	316.7	422.2	527.8	633.3	738.9
16	6	Single	Push side	201.1	-	20.2	40.3	60.4	80.5	100.6	120.7	50	20	Single	Push side	1963.5	89.3	285.7	482.0	678.4	874.7	1071.1	1267.4
		acting	Pull side	172.8	-	14.6	31.8	49.1	66.4	83.7	101.0			acting	Pull side	1649.3	57.9	222.9	387.8	552.7	717.7	882.6	1047.5
		Double	Push side	201.1	-	40.2	60.3	80.4	100.5	120.6	140.7			Double	Push side	1963.5	196.3	392.7	589.0	785.4	981.7	1178.1	1374.4
		acting	Pull side	172.8	-	34.6	51.8	69.1	86.4	103.7	121.0			acting	Pull side	1649.3	164.9	329.9	494.8	659.7	824.7	989.6	1154.5
20	8	Single	Push side	314.2	-	39.8	71.2	102.7	134.1	165.5	196.9	63	20	Single	Push side	3117.2	135.7	447.4	759.2	1070.9	1382.6	1694.3	2006.1
		acting	Pull side	263.9	-	29.8	56.2	82.6	108.9	135.3	161.7			acting	Pull side	2803.1	104.3	384.6	664.9	945.2	1225.5	1505.9	1786.2
		Double	Push side	314.2	-	62.8	94.2	125.7	157.1	188.5	219.9			Double	Push side	3117.2	311.7	623.4	935.2	1246.9	1558.6	1870.3	2182.1
		acting	Pull side	263.9	-	52.8	79.2	105.6	131.9	158.3	184.7			acting	Pull side	2803.1	280.3	560.6	840.9	1121.2	1401.5	1681.9	1962.2
25	10	Single	Push side	490.9	-	69.7	118.8	167.8	216.9	266.0	315.1	80	25	Double	Push side	5026.5	502.7	1005.3	1508.0	2010.6	2513.3	3015.9	3518.6
		acting	Pull side	412.3	-	54.0	95.2	136.4	177.7	218.9	260.1			acting	Pull side	4535.7	453.6	907.1	1360.7	1814.3	2267.8	2721.4	3175.0
		Double	Push side	490.9	-	98.2	147.3	196.3	245.4	294.5	343.6			Double	Push side	7854.0	785.4	1570.8	2356.2	3141.6	3927.0	4712.4	5497.8
		acting	Pull side	412.3	-	82.5	123.7	164.9	206.2	247.4	288.6			acting	Pull side	7049.7	705.0	1409.9	2114.9	2819.9	3524.9	4229.8	4934.8
32	12	Single	Push side	804.2	-	105.3	185.8	266.2	346.6	427.0	507.5	100	32	Single	Push side	804.2	-	105.3	185.8	266.2	346.6	427.0	507.5
		acting	Pull side	691.2	-	82.7	151.8	221.0	290.1	359.2	428.3			acting	Pull side	691.2	-	82.7	151.8	221.0	290.1	359.2	428.3
		Double	Push side	804.2	-	160.8	241.3	321.7	402.1	482.5	563.0			Double	Push side	804.2	-	160.8	241.3	321.7	402.1	482.5	563.0
		acting	Pull side	691.2	-	138.2	207.3	276.5	345.6	414.7	483.8			acting	Pull side	691.2	-	138.2	207.3	276.5	345.6	414.7	483.8



SDA Series



SDA

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 grease 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.

Bore size(mm)		12	16	20	25	32	40	50	63	80	100
Acting type		Double acting									
		Single acting-Push type, Single acting-Pull type									—
Fluid		Air(to be filtered by 40 μ m filter element)									
Operating pressure	Double acting	0.1~1.0MPa(15~145psi)(1.0~10.0bar)									
	Single acting	0.2~1.0MPa(28~145psi)(2.0~10.0bar)									
Proof pressure		1.5MPa(215psi)(15bar)									
Temperature ℃		-20~80									
Speed range mm/s		Double acting: 30~500					Single acting: 50~500				
Stroke tolerance											
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 P419~442 for detail of sensor switch.

Bore size (mm)			Standard stroke (mm)	Max. std stroke	Max. stroke
12 16	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50	50	70
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60	60	80
	Single acting		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	90	130
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100	100	140
	Single acting		5 10 15 20 25 30	30	-
25, 32 40, 50 63	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120	120	150
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130	130	160
	Single acting		5 10 15 20 25 30	30	-
80 100	Double acting	With magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120	120	150
		Without magnet	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130	130	160

Note) 1. Please contact the company for other special strokes.

2. The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 23mm stroke cylinder has the same dimensions of 25 std. stroke cylinder.

SDA 20 × 30	S B	☐
SDAD 20 × 30	S B	☐
SDAJ 20 × 30–30	S B	☐

The diagram illustrates the relationship between various parameters for compact cylinders. It features a central vertical line with branches leading to different parameter categories. The parameters are defined as follows:

- Model**
 - SDA: Compact cylinder(Double acting)
 - SSA: Compact cylinder(Single acting-push)
 - STA: Compact cylinder(Single acting-pull)
 - SDAD: Compact cylinder(Double rod)
 - SDAJ: Compact cylinder(Adjustable stroke)
- Bore size**

Model	Bore size
SSA, STA	12 16 20 25 32 40 50 63
Others	12 16 20 25 32 40 50 63 80 100
- Stroke**

Refer to stroke table for details
- Thread type**
 - Blank: PT
 - T: NPT
 - G: G
- Rod type**
 - Blank: Female thread
 - B: Male thread
 - N: No thread
- Magnet**
 - Blank: Without magnet
 - S: With magnet
- Adjustable stroke**

Model	Adjustable stroke
SDAJ	10: 10mm
	20: 20mm
	30: 30mm
	40: 40mm
	50: 50mm
	75: 75mm
100: 100mm	
Others	No this code

SDAT 20 x 30 x 10 S B □

- Model**
 - SDAT: Compact cylinder(Duplex type)
 - SDAW: Compact cylinder(Duplex-end type)
- Bore size**
 - 12 16 20 25 32 40 50 63 80 100
- Stroke 1**
 - Refer to stroke table for details
- Stroke 2**
 - Refer to stroke table for details
- Thread type**
 - Blank: PT
 - T: NPT
 - G: G
- Rod type**
 - Blank: Female thread
 - B: Male thread
 - N: No thread
- Magnet**
 - Blank: Without magnet
 - S: With magnet

① Standard thread is blank here.

① Standard thread is blank here.

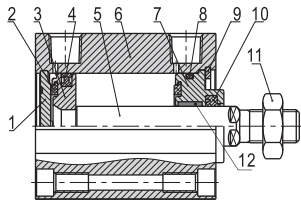


Compact cylinder

SDA Series

Inner structure and material of major parts

SDA

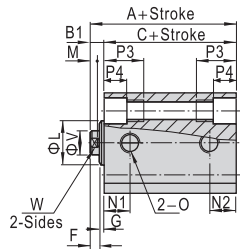
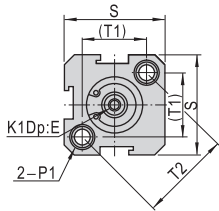


NO.	Item	Material
1	Back cover	No(Φ 12, 16) Aluminum alloy(Others)
2	Bumper	NBR
3	Piston	Brass(Φ 12, 16) Aluminum alloy(Others)
4	Piston seal	NBR
5	Piston rod	Carbon steel with 20 μ m chrome plated
6	Body	Aluminum alloy
7	Front cover	Aluminum alloy
8	O-ring	NBR
9	C clip	Spring steel
10	Front cover packing	NBR
11	Piston nut	Carbon steel
12	Bushing	No(Φ 12~32) Wear resistant material(Others)

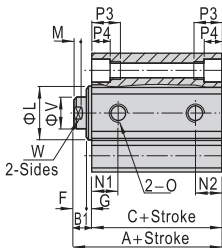
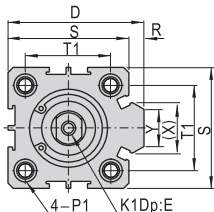
Dimensions

SDA

Φ 12 Φ 16



Φ 20 ~ Φ 100



Item	A		C		B1	D	E	F	G	K1	L	M	N1		N2	
	Standard	With magnet	Standard	With magnet									St=5	St>5	St=5	St>5
12	22	32	17	27	5	-	6	4	1	M3 × 0.5	10.2	3	7.5	7.5	5	5
16	24	34	18.5	28.5	5.5	-	6	4	1.5	M3 × 0.5	11	3	8	8	5.5	5.5
20	25	35	19.5	29.5	5.5	36	8	4	1.5	M4 × 0.7	13	3	9	9	5.5	5.5
25	27	37	21	31	6	42	10	4	2	M5 × 0.8	17	3	9.2	9.2	5.5	5.5
32	31.5	41.5	24.5	34.5	7	50	12	4.6	2.4	M6 × 1.0	22	3	9	9	6.5	9
40	33	43	26	36	7	58.5	12	4	3	M8 × 1.25	28	3	9.5	9.5	7.5	7.5
50	37	47	28	38	9	71.5	15	5	4	M10 × 1.5	38	3	8	10.5	8	10.5
63	41	51	32	42	9	84.5	15	5	4	M10 × 1.5	40	3	9.5	12	9.5	11
80	52	62	41	51	11	104	20	6	5	M14 × 1.5	45	4	11.5	14.5	11.5	14.5
100	63	73	51	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	16.2	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	21.7	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 × 2.0 Thru.hole: Φ 11.3			30	13	10	114	90	-	32	27	35	26		



SDA

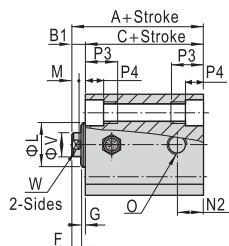
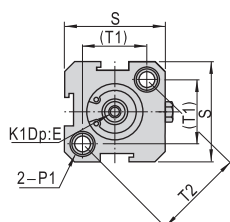
Compact cylinder

SDA Series

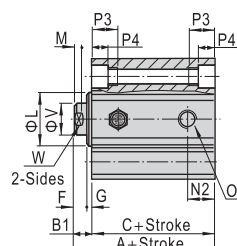
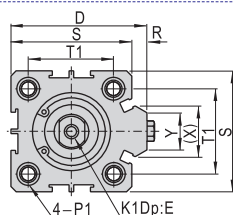
AirTAC

SSA

Φ12 Φ16

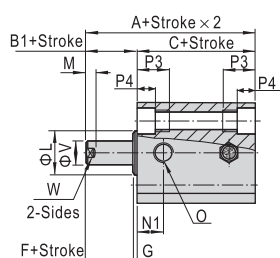
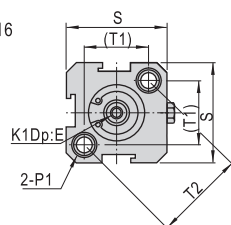


Φ20~Φ63

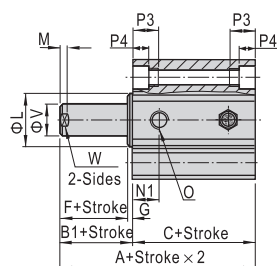
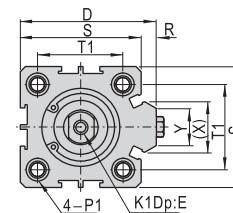


STA

Φ12 Φ16



Φ20~Φ63



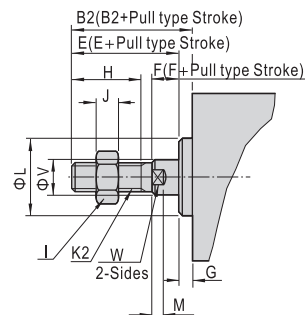
Bore size\Item	A(Standard)		A(With magnet)		C(Standard)		C(With magnet)		B1	D	E
	St≤10	St>10	St≤10	St>10	St≤10	St>10	St≤10	St>10			
12	32	42	42	52	27	37	37	47	5	-	6
16	34	44	44	54	28.5	38.5	38.5	48.5	5.5	-	6
20	35	45	45	55	29.5	39.5	39.5	49.5	5.5	36	8
25	37	47	47	57	31	41	41	51	6	42	10
32	41.5	51.5	51.5	61.5	34.5	44.5	44.5	54.5	7	50	12
40	43	53	53	63	36	46	46	56	7	58.5	12
50	47	57	57	67	38	48	48	58	9	71.5	15
63	51	61	61	71	42	52	52	62	9	84.5	15

Bore size\Item	F	G	K1	L	M	N1	N2	O	R	S	T1	T2
12	4	1	M3 × 0.5	10.2	3	7.5	5	M5 × 0.8	-	25	16.2	23
16	4	1.5	M3 × 0.5	11	3	8	5.5	M5 × 0.8	-	29	19.8	28
20	4	1.5	M4 × 0.7	13	3	9	5.5	M5 × 0.8	2	34	24	-
25	4	2	M5 × 0.8	17	3	9.2	5.5	M5 × 0.8	2	40	28	-
32	4	2.4	M6 × 1.0	22	3	9	9	1/8"	6	44	34	-
40	4	3	M8 × 1.25	28	3	9.5	7.5	1/8"	6.5	52	40	-
50	5	4	M10 × 1.5	38	3	10.5	10.5	1/4"	9.5	62	48	-
63	5	4	M10 × 1.5	40	3	12	11	1/4"	9.5	75	60	-

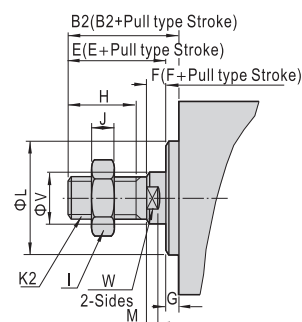
Bore size\Item	P1	P3	P4	V	W	X	Y
12	2-Sides: Φ6.5 Thread:M5 × 0.8 Thru.hole: Φ4.2	12	4.5	6	5	-	-
16	2-Sides: Φ6.5 Thread:M5 × 0.8 Thru.hole: Φ4.2	12	4.5	6	5	-	-
20	2-Sides: Φ6.5 Thread:M5 × 0.8 Thru.hole: Φ4.2	14	4.5	8	6	11.3	10
25	2-Sides: Φ8.2 Thread:M6 × 1.0 Thru.hole: Φ4.6	15	5.5	10	8	12	10
32	2-Sides: Φ8.2 Thread:M6 × 1.0 Thru.hole: Φ4.6	16	5.5	12	10	18.3	15
40	2-Sides: Φ10 Thread:M8 × 1.25 Thru.hole: Φ6.5	20	7.5	16	14	21.7	16
50	2-Sides: Φ11 Thread:M8 × 1.25 Thru.hole: Φ6.5	25	8.5	20	17	30	20
63	2-Sides: Φ11 Thread:M8 × 1.25 Thru.hole: Φ6.5	25	8.5	20	17	28.7	20

Male thread

Φ12 Φ16



Φ20~Φ100



Bore size\Item	B2	E	F	G	SDAD,SDAJ	Others	H	I
12	17	16	4	1	1	1	10	8
16	17.5	16	4	1.5	1.5	1.5	10	8
20	20.5	19	4	1.5	1.5	1.5	13	10
25	23	21	4	2	2	2	15	12
32	25	22	4	3	2.4	2.4	15	17
40	35	32	4	3	3	3	25	19
50	37	33	5	4	4	4	25	27
63	37	33	5	4	4	4	25	27
80	44	39	6	5	5	5	30	32
100	50	45	7	5	5	5	35	36

Bore size\Item	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



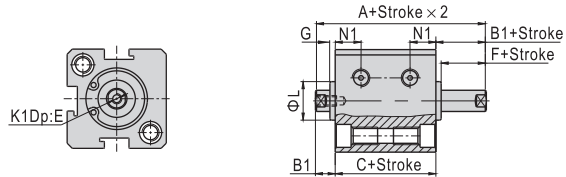
Compact cylinder

SDA Series

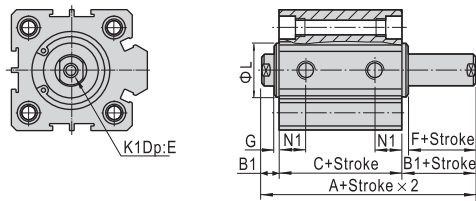
AirTAC

SDAD

Φ 12 Φ 16



Φ 20 ~ Φ 100



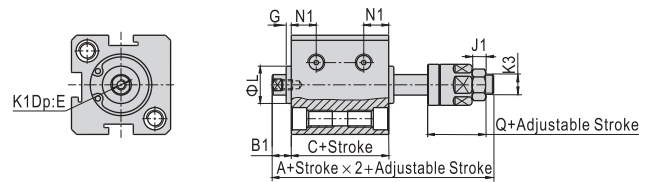
Item	A		C		E	
	Standard	With magnet	Standard	With magnet	St ≤ 10	St > 10
12	27	37	17	27	6	6
16	29.5	39.5	18.5	28.5	6	6
20	30.5	40.5	19.5	29.5	8(St=5 is 6.5)	
25	33	43	21	31	10(St=5 is 7)	
32	38.5	48.5	24.5	34.5	8	12
40	40	50	26	36	8	12
50	46	56	28	38	8	15
63	50	60	32	42	10	15
80	63	73	41	51	13	20
100	75	85	51	61	18	20

Item	N1		B1	F	G	K1	L
	St=5	St>5					
12	5.5	6.3	5	4	1	M3 × 0.5	10.2
16	6.5	7.3	5.5	4	1.5	M3 × 0.5	11
20	7.5	7.5	5.5	4	1.5	M4 × 0.7	15
25	8	8	6	4	2	M5 × 0.8	17
32	8	9	7	4	3	M6 × 1.0	22
40	8	10	7	4	3	M8 × 1.25	28
50	8	10.5	9	5	4	M10 × 1.5	38
63	9.5	11.8	9	5	4	M10 × 1.5	40
80	11.5	14.5	11	6	5	M14 × 1.5	45
100	16	20.5	12	7	5	M18 × 1.5	55

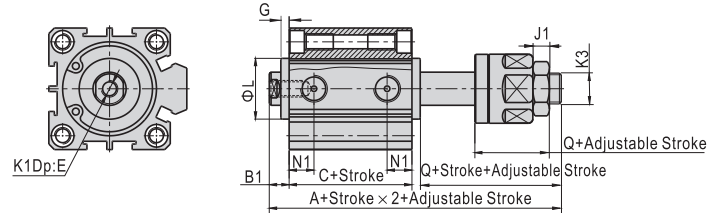
Note) The unmarked dimension is the same as SDA standard type.
Please refer to Page 284 for the dimension of male thread.

SDAJ

Φ 12 Φ 16



Φ 20 ~ Φ 100



Item	A		C		E		N1	
	Standard	With magnet	Standard	With magnet	St ≤ 10	St > 10	St=5	St>5
12	40	50	17	27	6	6	5.5	6.3
16	42.5	52.5	18.5	28.5	6	6	6.5	7.3
20	47.5	57.5	19.5	29.5	8(St=5 is 6.5)		7.5	7.5
25	54	64	21	31	10(St=5 is 7)		8	8
32	61.5	71.5	24.5	34.5	8	12	8	9
40	64	74	26	36	8	12	8	10
50	70	80	28	38	8	15	8	10.5
63	74	84	32	42	10	15	9.5	11.8
80	92.5	102.5	41	51	13	20	11.5	14.5
100	110.5	120.5	51	61	18	20	16	20.5

Bore size\Item	B1	Q	G	J1	K1	K3	L
12	5	17	1	4	M3 × 0.5	M5 × 0.8	10.2
16	5.5	17	1.5	4	M3 × 0.5	M5 × 0.8	11
20	5.5	21	1.5	5	M4 × 0.7	M6 × 1.0	15
25	6	25	2	6	M5 × 0.8	M8 × 1.25	17
32	7	27	3	6	M6 × 1.0	M10 × 1.25	22
40	7	28	3	7	M8 × 1.25	M12 × 1.25	28
50	9	29	4	8	M10 × 1.5	M16 × 1.5	38
63	9	29	4	8	M10 × 1.5	M16 × 1.5	40
80	11	35.5	5	10	M14 × 1.5	M20 × 1.5	45
100	12	42.5	5	13.5	M18 × 1.5	M27 × 2.0	55

Note) The unmarked dimension is the same as SDA standard type.
Please refer to Page 284 for the dimension of male thread.



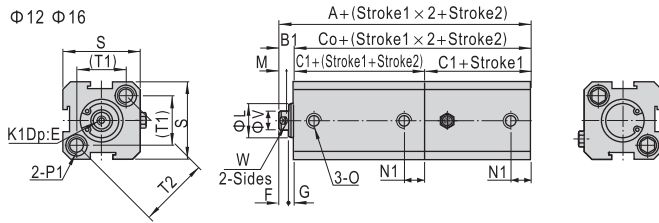
SDA

Compact cylinder

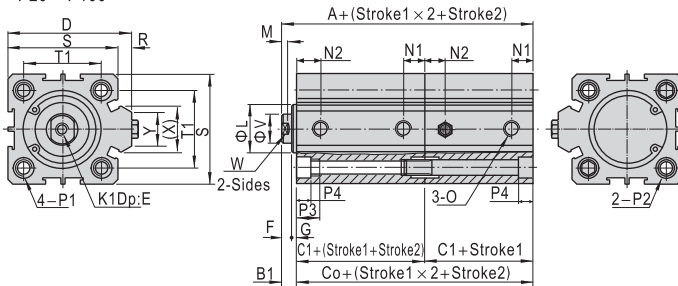
SDA Series

AirTAC

SDAT



Φ 20~Φ 100



Note) Please refer to Page 284 for the dimension of male thread.

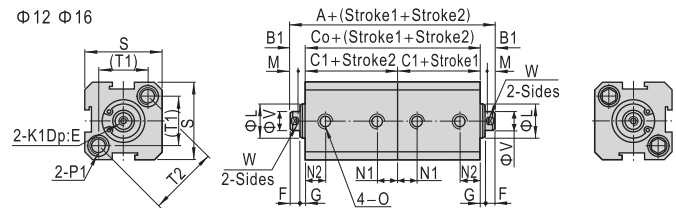
Item	A	Co	C1	N1	N2
Bore size	Standard	With magnet	Standard	With magnet	Standard
12	39	59	34	54	17
16	42.5	62.5	37	57	18.5
20	44.5	64.5	39	59	19.5
25	48	68	42	62	21
32	56	76	49	69	24.5
40	59	79	52	72	26
50	65	85	56	76	28
63	73	93	64	84	32
80	93	113	82	102	41
100	114	134	102	122	51

Bore size\Item	B1	D	E	F	G	K1	L	M	O	R
12	5	-	6	4	1	M3 × 0.5	10.2	3	M5 × 0.8	-
16	5.5	-	6	4	1.5	M3 × 0.5	11	3	M5 × 0.8	-
20	5.5	36	8	4	1.5	M4 × 0.7	13	3	M5 × 0.8	2
25	6	42	10	4	2	M5 × 0.8	17	3	M5 × 0.8	2
32	7	50	12	4	2.4	M6 × 1.0	22	3	1/8"	6
40	7	58.5	12	4	3	M8 × 1.25	28	3	1/8"	6.5
50	9	71.5	15	5	4	M10 × 1.5	38	3	1/4"	9.5
63	9	84.5	15	5	4	M10 × 1.5	40	3	1/4"	9.5
80	11	104	20	6	5	M14 × 1.5	45	4	3/8"	10
100	12	124	20	7	5	M18 × 1.5	55	4	3/8"	10

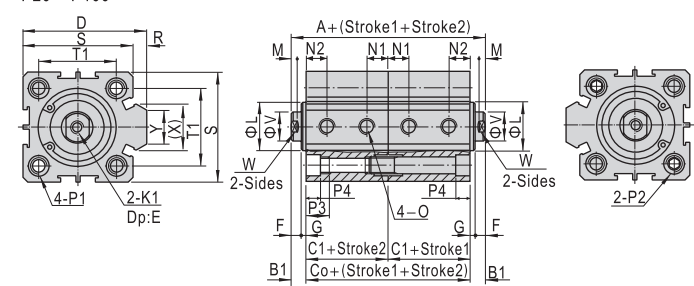
Bore size\Item	P1	P2
12	Φ 6.5 Thread:M5 × 0.8 Thru.hole: Φ 4.2	-
16	Φ 6.5 Thread:M5 × 0.8 Thru.hole: Φ 4.2	-
20	2-Sides: Φ 6.5 Thread:M5 × 0.8 Thru.hole: Φ 4.2	2-Sides: Φ 6.5 Thru.hole: Φ 5.2
25	2-Sides: Φ 8.2 Thread:M6 × 1.0 Thru.hole: Φ 4.6	2-Sides: Φ 8.2 Thru.hole: Φ 6.2
32	2-Sides: Φ 8.2 Thread:M6 × 1.0 Thru.hole: Φ 4.6	2-Sides: Φ 8.2 Thru.hole: Φ 6.2
40	2-Sides: Φ 10 Thread:M8 × 1.25 Thru.hole: Φ 6.5	2-Sides: Φ 10 Thru.hole: Φ 8.2
50	2-Sides: Φ 11 Thread:M8 × 1.25 Thru.hole: Φ 6.5	2-Sides: Φ 11 Thru.hole: Φ 8.5
63	2-Sides: Φ 11 Thread:M8 × 1.25 Thru.hole: Φ 6.5	2-Sides: Φ 11 Thru.hole: Φ 8.5
80	2-Sides: Φ 14 Thread:M12 × 1.75 Thru.hole: Φ 9.2	2-Sides: Φ 14 Thru.hole: Φ 12.3
100	2-Sides: Φ 17.5 Thread:M14 × 2.0 Thru.hole: Φ 11.3	2-Sides: Φ 17.5 Thru.hole: Φ 14.2

Bore size\Item	P3	P4	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	34	24	-	8	6	11.3	10
25	15	5.5	40	28	-	10	8	12	10
32	16	5.5	44	34	-	12	10	18.3	15
40	20	7.5	52	40	-	16	14	21.7	16
50	25	8.5	62	48	-	20	17	30	20
63	25	8.5	75	60	-	20	17	28.7	20
80	25	10.5	94	74	-	25	22	36	26
100	30	13	114	90	-	32	27	35	26

SDAW



Φ 20~Φ 100



Note) Please refer to Page 284 for the dimension of male thread.

Item	A	Co	C1	N1	N2
Bore size	Standard	With magnet	Standard	With magnet	Standard
12	44	64	34	54	17
16	48	68	37	57	18.5
20	50	70	39	59	19.5
25	54	74	42	62	21
32	63	83	49	69	24.5
40	66	86	52	72	26
50	74	94	56	76	28
63	82	102	64	84	32
80	104	124	82	102	41
100	126	146	102	122	51

Bore size\Item	B1	D	E	F	G	K1	L	M	O	R
12	5	-	6	4	1	M3 × 0.5	10.2	3	M5 × 0.8	-
16	5.5	-	6	4	1.5	M3 × 0.5	11	3	M5 × 0.8	-
20	5.5	36	8	4	1.5	M4 × 0.7	13	3	M5 × 0.8	2
25	6	42	10	4	2	M5 × 0.8	17	3	M5 × 0.8	2
32	7	50	12	4	2.4	M6 × 1.0	22	3	1/8"	6
40	7	58.5	12	4	3	M8 × 1.25	28	3	1/8"	6.5
50	9	71.5	15	5	4	M10 × 1.5	38	3	1/4"	9.5
63	9	84.5	15	5	4	M10 × 1.5	40	3	1/4"	9.5
80	11	104	20	6	5	M14 × 1.5	45	4	3/8"	10
100	12	124	20	7	5	M18 × 1.5	55	4	3/8"	10

Bore size\Item	P1	P2
12	Φ 6.5 Thread:M5 × 0.8 Thru.hole: Φ 4.2	-
16	Φ 6.5 Thread:M5 × 0.8 Thru.hole: Φ 4.2	-
20	2-Sides: Φ 6.5 Thread:M5 × 0.8 Thru.hole: Φ 4.2	2-Sides: Φ 6.5 Thru.hole: Φ 5.2
25	2-Sides: Φ 8.2 Thread:M6 × 1.0 Thru.hole: Φ 4.6	2-Sides: Φ 8.2 Thru.hole: Φ 6.2
32	2-Sides: Φ 8.2 Thread:M6 × 1.0 Thru.hole: Φ 4.6	2-Sides: Φ 8.2 Thru.hole: Φ 6.2
40	2-Sides: Φ 10 Thread:M8 × 1.25 Thru.hole: Φ 6.5	2-Sides: Φ 10 Thru.hole: Φ 8.2
50	2-Sides: Φ 11 Thread:M8 × 1.25 Thru.hole: Φ 6.5	2-Sides: Φ 11 Thru.hole: Φ 8.5
63	2-Sides: Φ 11 Thread:M8 × 1.25 Thru.hole: Φ 6.5	2-Sides: Φ 11 Thru.hole: Φ 8.5
80	2-Sides: Φ 14 Thread:M12 × 1.75 Thru.hole: Φ 9.2	2-Sides: Φ 14 Thru.hole: Φ 12.3
100	2-Sides: Φ 17.5 Thread:M14 × 2.0 Thru.hole: Φ 11.3	2-Sides: Φ 17.5 Thru.hole: Φ 14.2

Bore size\Item	P3	P4	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	34	24	-	8	6	11.3	10
25	15	5.5	40	28	-	10	8	12	10
32	16	5.5	44	34	-	12	10	18.3	15
40	20	7.5	52	40	-	16	14	21.3	16
50	25	8.5	62	48	-	20	17	30	20
63	25	8.5	75	60	-	20	17	28.7	20
80	25	10.5	94	74	-	25	22	36	26
100	30	13	114	90	-	32	27	35	26

