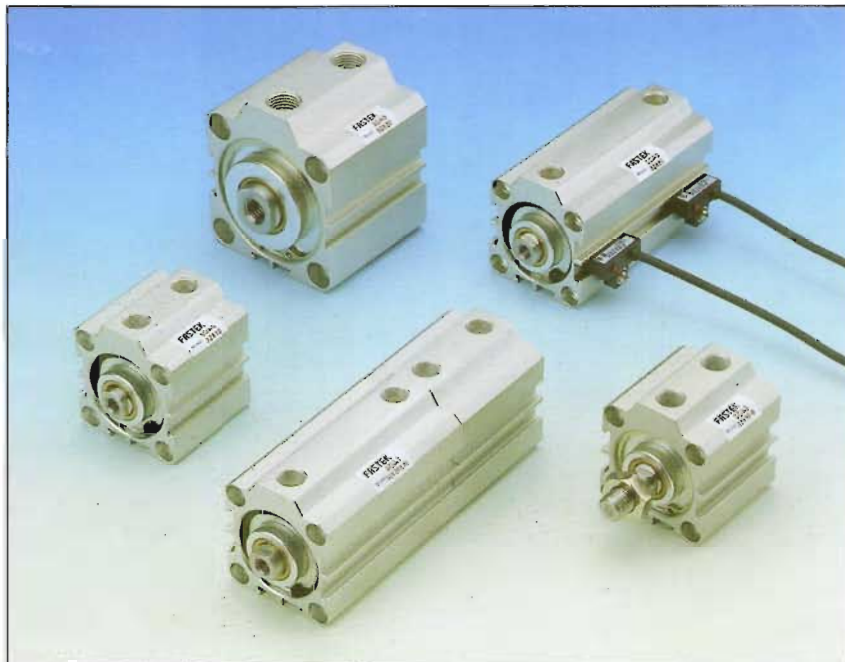


SQUARE CYLINDER



Criteria for Selection : Cylinder Thrust

Bore size mm	Rod size mm	Operation	Pressure Area mm ²	Operating Pressure kgf/cm ²						
				1	2	3	4	5	6	7
12	6	Single acting - push type	113	—	0.57	1.70	2.83	3.96	5.09	6.22
		Single acting - pull type	85	—	0.43	1.28	2.13	2.98	3.83	4.68
		Double acting Push side	113	—	2.26	2.39	4.52	5.65	6.78	7.91
		Double acting Pull side	85	—	1.70	2.55	3.40	4.25	5.10	5.95
16	6	Single acting - push type	201	—	1.01	2.02	5.03	7.04	9.05	11.06
		Single acting - pull type	173	—	0.87	2.60	4.33	6.06	7.79	9.52
		Double acting Push side	201	—	4.02	6.03	8.04	10.05	12.06	14.07
		Double acting Pull side	173	—	3.46	5.19	6.92	8.65	10.38	12.11
20	8	Single acting - push type	314	—	1.57	4.71	7.85	10.99	14.13	17.27
		Single acting - pull type	264	—	1.32	3.96	6.60	9.24	11.88	14.52
		Double acting Push side	314	—	6.28	9.42	12.56	15.70	18.84	21.98
		Double acting Pull side	264	—	5.28	7.92	10.56	13.20	15.84	18.48
25	10	Single acting - push type	490	—	2.45	7.35	12.25	17.15	22.05	26.95
		Single acting - pull type	412	—	2.06	6.18	10.30	14.42	18.54	22.66
		Double acting Push side	490	—	9.80	14.70	19.60	24.50	29.40	34.30
		Double acting Pull side	412	—	8.24	12.36	16.48	20.60	24.72	28.84
32	12	Single acting - push type	804	—	4.02	12.06	20.10	28.14	36.18	44.22
		Single acting - pull type	690	—	3.45	10.35	17.25	24.15	31.05	37.95
		Double acting Push side	804	—	16.08	24.12	32.16	40.20	48.24	56.28
		Double acting Pull side	690	—	13.80	20.70	27.60	34.50	41.40	48.30
40	16	Single acting - push type	1256	—	6.28	18.84	31.40	43.96	56.52	69.08
		Single acting - pull type	1055	—	5.28	15.83	26.38	36.93	47.48	58.03
		Double acting Push side	1256	12.56	25.12	37.68	50.24	62.80	75.36	87.92
		Double acting Pull side	1055	10.55	21.10	31.65	42.20	52.75	63.30	73.85
50	20	Double acting Push side	1963	19.63	39.26	58.89	78.52	98.15	117.78	137.41
		Double acting Pull side	1649	16.49	32.98	49.47	65.96	82.45	98.94	115.43
63	20	Double acting Push side	3117	31.17	62.34	93.51	124.68	155.85	187.02	218.19
		Double acting Pull side	2803	28.03	56.06	84.09	112.12	140.15	168.18	196.21
80	25	Double acting Push side	5026	50.26	100.52	150.78	201.04	251.30	301.56	351.82
		Double acting Pull side	4536	45.36	90.72	136.08	181.44	226.80	272.16	317.52
100	32	Double acting Push side	7853	78.53	157.06	235.59	314.12	392.65	471.18	549.71
		Double acting Pull side	7049	70.49	140.98	211.47	281.96	352.45	422.94	493.43

Note. Double force applied at push side in Duplex Type.

Standard Type — Double Acting Type Single Acting Type.....	P.2
Double-Rod Cylinder — Double Acting Type Single Acting Type.....	P.7
Double-Rod Cylinder — Adjustable Stroke Type	P.11
Duplex Cylinder (Multi-Position)	P.15
Double-End Cylinder.....	P.18
Sensor Switch	P.21

COMPACT CYLINDER

Standard Type - Single Acting Type Double Acting Type

Ordering code

SDA — — 25X50 —

Cylinder bore size X Stroke

Magnet type :

Blank - Without magnet

S - With magnet

Piston rod type :

Blank - Female threads

B - Male threads

N - No threads

SDA - Double acting compact cylinder

SSA - Single acting compact cylinder - Push type

STA - Single acting compact cylinder - Pull type

Specification

Bore size		mm	12	16	20	25	32	40	50	63	80	100
Action			Double acting type			Single acting type			Double acting type			
Fluid			Air									
Pressure range MPa { kgf/cm² }	Double acting type	0.05 ~ 0.7 { 0.5 ~ 7.1 }					0.05 ~ 0.7 { 0.5 ~ 7.1 }					
	Single acting type	0.2 ~ 0.7 { 2.0 ~ 7.1 }							—			
Proof pressure		MPa { kgf/cm² }	1.35 { 13.5 }									
Temperature range		℃	0 ~ 70									
Speed range mm/s	Double acting type	30 ~ 500							30 ~ 500		30 ~ 500	
	Single acting type	100 ~ 500							—			
Port size			M5*0.8				G 1/8"		G 1/4"		G 3/8"	

Cylinder size and stroke (mm) - Without Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30 35 40 45 50	50	60
20 25	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80	80	90
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100	130	150

Cylinder size and stroke (mm) - With Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30 35 40 45 50	50	60
20 25	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80	80	90
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100	120	140

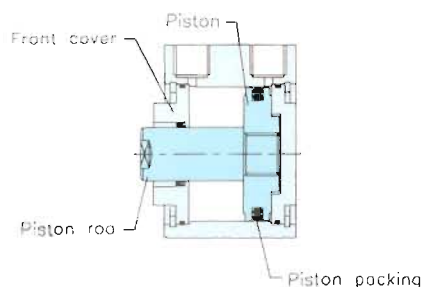
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

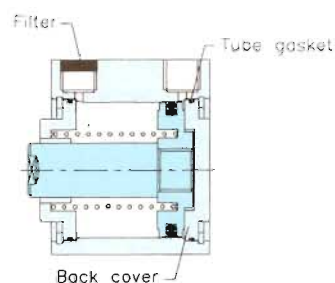
3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa (0.3MPa for single acting type).

Inner Construction and Major parts

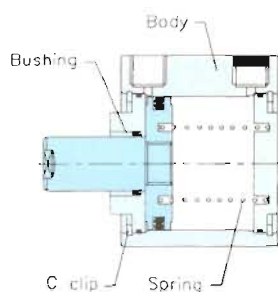
Double Acting Type : $\phi 12 \sim \phi 100$



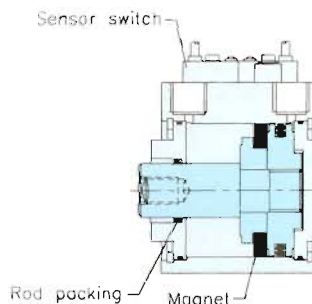
Push Type : $\phi 12 \sim \phi 40$



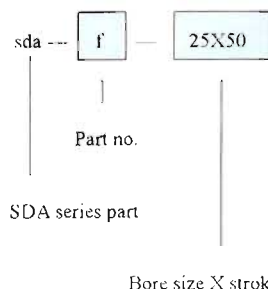
Pull Type : $\phi 12 \sim \phi 40$



With Magnet : $\phi 12 \sim \phi 100$



How to order parts



Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	12	16	20	25	32	40	50	63	80	100
Body	b	Aluminum alloy									
Front cover	f	Copper	Aluminum alloy								
Back cover	b	Copper	Aluminum alloy								
Piston	p	Aluminum alloy									
Piston rod	pr	Stainless steel	Hi-carbon steel with Hard chrome plated								
Tube gasket	tg	NBR									
Piston packing	apa	NBR									
Rod packing	mya	NBR									
Piston gasket	pg	—			NBR						
Bushing	bs	—		Copper							
Magnet	m	Plastic									
Spring	s	Stainless Steel									
C Clip	c	Steel with nickel plated									
Filter	fi	Copper									

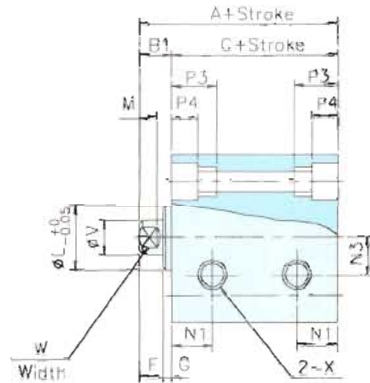
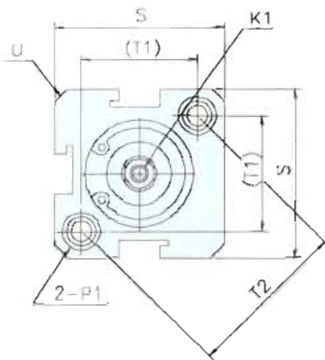
Note : Detail part number of packing please refer to packing list.

Packing list

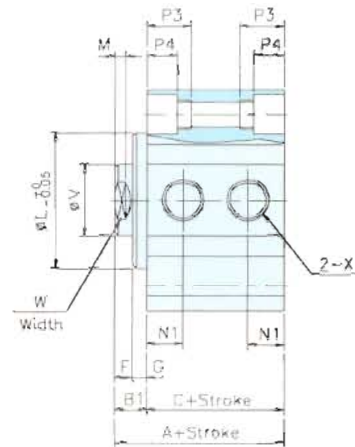
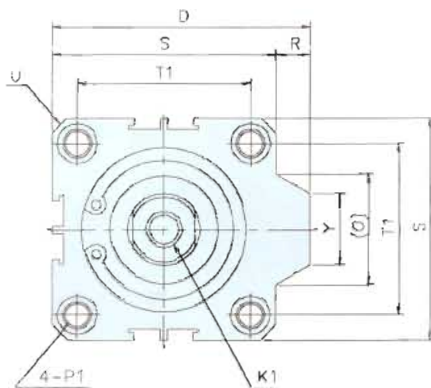
Bore size mm	Rod packing		Piston packing		Piston gasket	Tube gasket
	Double acting type Pull type	Push type	Double acting type	Single acting type	Double acting type Single acting type	Double acting type Single acting type
12	mya-12*1	—	apa-12*1	apa-12*1	—	S14*2
16	mya-16*1	—	apa-16*1	apa-16*1	—	1.5*14.5*2
20	mya-20*1	—	apa-20*1	apa-20*1	—	1.5*19.5*2
25	mya-25*1	—	apa-25*1	apa-25*1	pg-25*1	1.5*24.5*2
32	mya-32*1	—	apa-32*1	apa-32*1	pg-32*1	1.5*31.5*2
40	mya-40*1	—	apa-40*1	apa-40*1	pg-40*1	1.5*39.5*2
50	mya-50*1	—	apa-50*1	—	pg-50*1	1.5*49.5*2
63	mya-63*1	—	apa-63*1	—	pg-63*1	1.5*62.5*2
80	mya-80*1	—	apa-80*1	—	pg-80*1	1.5*79.5*2
100	mya-100*1	—	apa-100*1	—	pg-100*1	2.0*98.5*2

Dimensions of Double Acting Type - SDA SDAS

ø12&ø16



ø20~ø100

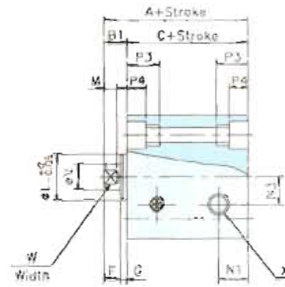
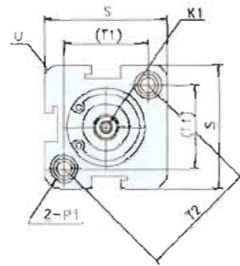


Bore size mm	Without Magnet			With Magnet			D	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C									
12	22	5	17	32	5	27	—	4	1	M3*0.5 Depth = 6mm	11	3	6.5	6	—
16	24	5.5	18.5	34	5.5	28.5	—	4	1.5	M3*0.5 Depth = 6mm	11	3	7	6.5	—
20	25	5.5	19.5	35	5.5	29.5	36	4	1.5	M4*0.7 Depth = 8mm	15	3	7.5	—	12.3
25	27	6	21	37	6	31	42	4	2	M5*0.8 Depth = 10mm	17	3	8	—	12.3
32	31.5	7	24.5	41.5	7	34.5	50	4	3	M6*1.0 Depth = 12mm	22	3	9	—	22.9
40	33	7	26	43	7	36	58.5	4	3	M8*1.25 Depth = 12mm	28	3	10	—	23.5
50	37	9	28	47	9	38	71.5	5	4	M10*1.5 Depth = 15mm	38	3	10	—	31
63	41	9	32	51	9	42	84.5	5	4	M10*1.5 Depth = 15mm	40	3	12	—	31
80	52	11	41	62	11	51	104	6	5	M14*1.5 Depth = 20mm	45	4	12.5	—	37.5
100	63	12	51	73	12	61	124	7	5	M18*1.5 Depth = 20mm	45	4	17	—	37.5

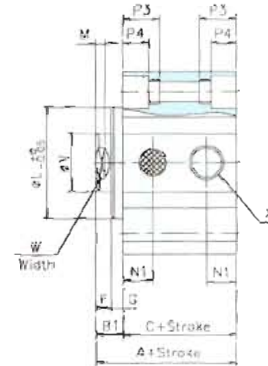
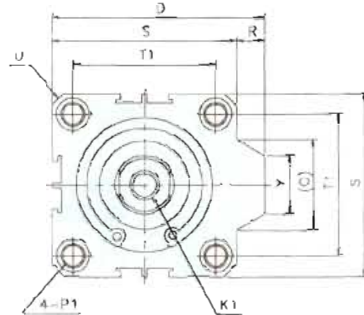
Bore size mm	P1			P3	P4	R	S	T1	T2	U	V	W	X	Y
12	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			12	4.5	—	25	16.2	23	R16	6	5	M5
16	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			12	4.5	—	29	19.8	28	R19	6	5	M5
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			14	4.5	2	34	24	—	R22	8	6	M5
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			15	5.5	2	40	28	—	R25	10	8	M5
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			16	5.5	6	44	34	—	R29.5	12	10	G 1/8"
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)			20	7.5	6.5	52	40	—	R35	16	14	G 1/8"
50	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)			25	8.5	9.5	62	48	—	R41	20	17	G 1/4"
63	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)			25	8.5	9.5	75	60	—	R50	20	17	G 1/4"
80	ø9.2 (thru hole)	ø14 with M12*1.75 (both side)			25	10.5	10	94	74	—	R62	25	22	G 3/8"
100	ø11 (thru hole)	ø17.5 with M14*2 (both side)			30	13	10	114	90	—	R75	32	27	G 3/8"

Dimensions of Single Acting Type - SSA SSAS STA STAS

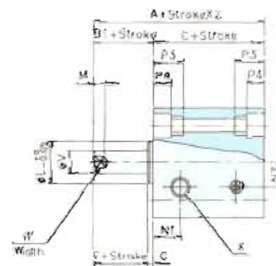
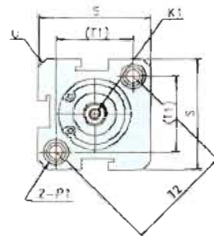
ø12&ø16 - SSA SSAS



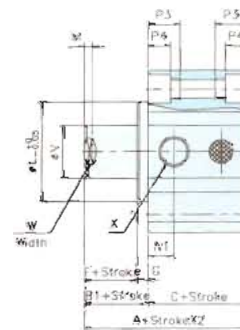
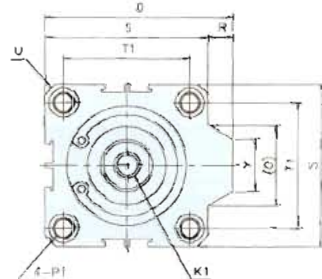
ø20~ø40 - SSA SSAS



ø12&ø16 - STA STAS



ø20~ø40 - STA STAS



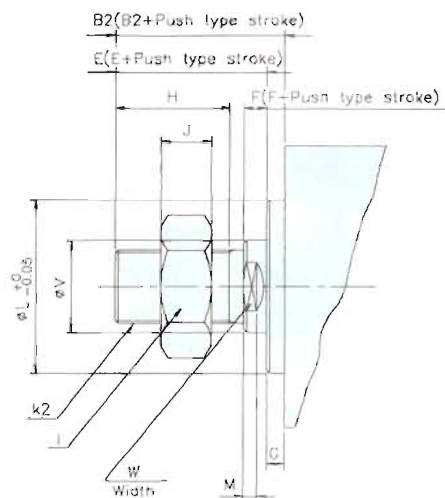
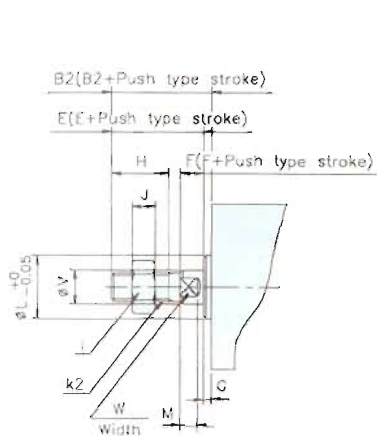
Bore size mm	Without Magnet			With Magnet			D	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C									
12	32	5	27	42	5	37	—	4	1	M3*0.5 Depth = 6mm	11	3	6.5	6	—
16	34	5.5	28.5	44	5.5	38.5	—	4	1.5	M3*0.5 Depth = 6mm	11	3	7	6.5	—
20	35	5.5	29.5	45	5.5	39.5	36	4	1.5	M4*0.7 Depth = 8mm	15	3	7.5	—	12.3
25	37	6	31	47	6	41	42	4	2	M5*0.8 Depth = 10mm	17	3	8	—	12.3
32	41.5	7	34.5	51.5	7	44.5	50	4	3	M6*1.0 Depth = 12mm	22	3	9	—	22.9
40	43	7	36	53	7	46	58.5	4	3	M8*1.25 Depth = 12mm	28	3	10	—	23.5

Bore size mm	P1				P3	P4	R	S	T1	T2	U	V	W	X	Y	Z
12	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)				12	4.5	—	25	16.2	23	R16	6	5	M5	1
16	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)				12	4.5	—	29	19.8	28	R19	6	5	M5	1
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)				14	4.5	2	34	24	—	R22	8	6	M5	10
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)				15	5.5	2	40	28	—	R25	10	8	M5	10
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)				16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)				20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16

Dimensions of Male Thread Piston Rod

ø12&ø16

ø20~ø100



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	11	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	15	3	8	6
25	23	21	4	2	15	12	5	M8*1.25	17	3	10	8
32	25	22	4	3	15	14	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	25	27

COMPACT CYLINDER

Double Rod Type - Single Acting Type Double Acting Type

Ordering code

SDAD - - 25X50 -

Cylinder bore size X Stroke

Magnet type :

Blank - Without magnet
S - With magnet

Piston rod type :

Blank - Female threads
B - Male threads
N - No threads

SDAD - Double rod type compact cylinder - Double acting type

SSAD - Double rod type compact cylinder - Single acting type

Specification

Bore size		mm	12	16	20	25	32	40	50	63	80	100
Action			Double acting type			Single acting type			Double acting type			
Fluid			Air									
Pressure range	Double acting type		0.05 ~ 0.7 { 0.5 ~ 7.1 }				0.05 ~ 0.7 { 0.5 ~ 7.1 }					
MPa { kgf/cm ² }	Single acting type		0.2 ~ 0.7 { 2.0 ~ 7.1 }						—			
Proof pressure		MPa { kgf/cm ² }	1.35 { 13.5 }									
Temperature range		°C	0 ~ 70									
Speed range	Double acting type		30 ~ 500						30 ~ 500		30 ~ 500	
mm/s	Single acting type		100 ~ 500						—			
Port size			M5*0.8				G 1/8"		G 1/4"		G 3/8"	

Cylinder size and stroke (mm) - Without Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	30	40
20 25	5 10 15 20 25 30 35 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	50	60

Cylinder size and stroke (mm) - With Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	30	40
20 25	5 10 15 20 25 30 35 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	50	60

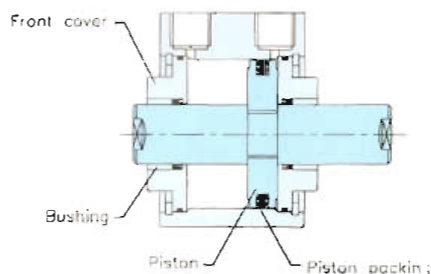
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

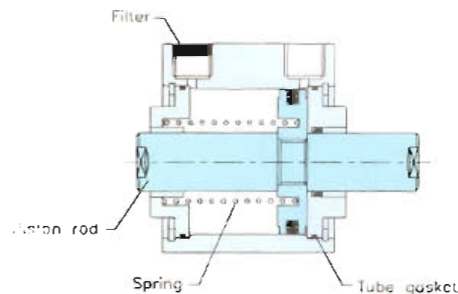
3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.

Inner Construction and Major parts

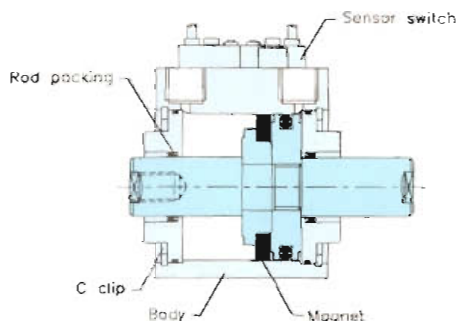
Double Acting Type : $\phi 12 \sim \phi 100$



Single Acting Type : $\phi 12 \sim \phi 40$



With Magnet : $\phi 12 \sim \phi 100$



How to order parts



Part no.

SDA series part

Bore size X stroke *

Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	12	16	20	25	32	40	50	63	80	100
Body	b	Aluminum alloy									
Front cover	f	Copper	Aluminum alloy								
Piston	p	Aluminum alloy									
Piston rod	pr	Stainless steel	Hi-carbon steel with Hard chrome plated								
Tube gasket	tg	NBR									
Piston packing	apa	NBR									
Rod packing	mya	NBR									
Piston gasket	pg	—			NBR						
Bushing	bs	—			Copper						
Magnet	m	Plastic									
Spring	s	Stainless Steel									
C Clip	c	Steel with nickel plated									
Filter	fi	Copper									

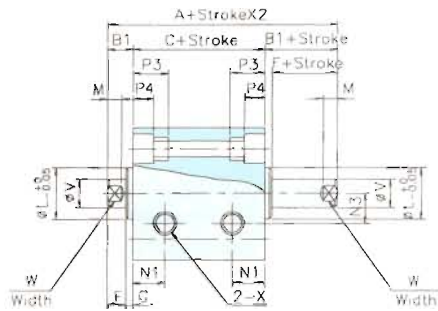
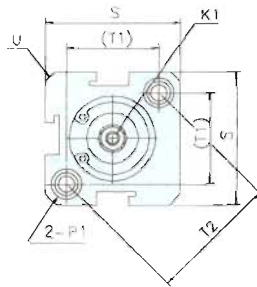
Note : Detail part number of packing please refer to packing list.

Packing list

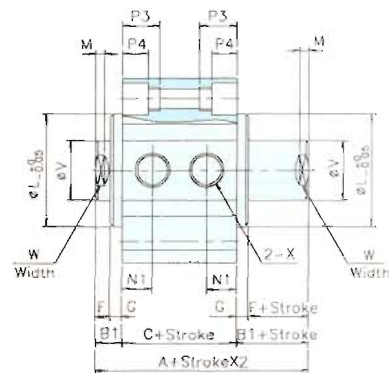
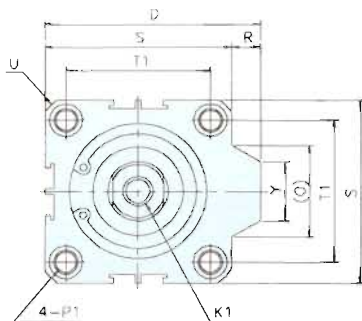
Bore size mm	Rod packing		Piston packing		Piston gasket	Tube gasket
	Double acting type	Single acting type	Double acting type	Single acting type		
12	mya-12*2	mya-12*1	apa-12*1	apa-12*1	—	S14*2
16	mya-16*2	mya-16*1	apa-16*1	apa-16*1	—	1.5*14.5*2
20	mya-20*2	mya-20*1	apa-20*1	apa-20*1	—	1.5*19.5*2
25	mya-25*2	mya-25*1	apa-25*1	apa-25*1	pg-25*1	1.5*24.5*2
32	mya-32*2	mya-32*1	apa-32*1	apa-32*1	pg-32*1	1.5*31.5*2
40	mya-40*2	mya-40*1	apa-40*1	apa-40*1	pg-40*1	1.5*39.5*2
50	mya-50*2	—	apa-50*1	—	pg-50*1	1.5*49.5*2
63	mya-63*2	—	apa-63*1	—	pg-63*1	1.5*62.5*2
80	mya-80*2	—	apa-80*1	—	pg-80*1	1.5*79.5*2
100	mya-100*2	—	apa-100*1	—	pg-100*1	2.0*98.5*2

Dimensions of Double Acting Type - SDAD SDADS

ø12&ø16



ø20~ø100



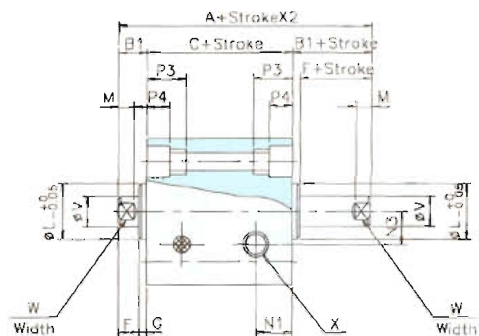
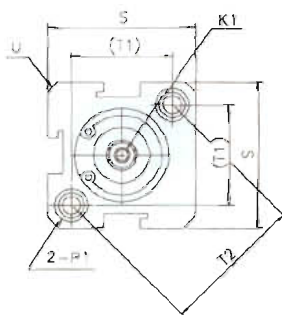
Bore size mm	Without Magnet			With Magnet			D	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C									
12	27	5	17	37	5	27	—	4	1	M3*0.5 Depth = 6mm	11	3	6.5	6	—
16	29.5	5.5	18.5	39.5	5.5	28.5	—	4	1.5	M3*0.5 Depth = 6mm	11	3	7	6.5	—
20	30.5	5.5	19.5	40.5	5.5	29.5	36	4	1.5	M4*0.7 Depth = 8mm	15	3	7.5	—	12.3
25	33	6	21	43	6	31	42	4	2	M5*0.8 Depth = 10mm	17	3	8	—	12.3
32	38.5	7	24.5	48.5	7	34.5	50	4	3	M6*1.0 Depth = 12mm	22	3	9	—	22.9
40	40	7	26	50	7	36	58.5	4	3	M8*1.25 Depth = 12mm	28	3	10	—	23.5
50	46	9	28	56	9	38	71.5	5	4	M10*1.5 Depth = 15mm	38	3	10	—	31
63	50	9	32	60	9	42	84.5	5	4	M10*1.5 Depth = 15mm	40	3	12	—	31
80	68	11	46	78	11	56	104	6	5	M14*1.5 Depth = 20mm	45	4	12.5	—	37.5
100	80	12	56	90	12	66	124	7	5	M18*1.5 Depth = 20mm	45	4	17	—	37.5

Bore size mm	P1		P3	P4	R	S	T1	T2	U	V	W	X	Y
12	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)	12	4.5	—	25	16.2	23	R16	6	5	M5	—
16	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)	12	4.5	—	29	19.8	28	R19	6	5	M5	—
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)	14	4.5	2	34	24	—	R22	8	6	M5	10
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)	15	5.5	2	40	28	—	R25	10	8	M5	10
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)	16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)	20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16
50	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)	25	8.5	9.5	62	48	—	R41	20	17	G 1/4"	20
63	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)	25	8.5	9.5	75	60	—	R50	20	17	G 1/4"	20
80	ø9.2 (thru hole)	ø14 with M12*1.75 (both side)	25	10.5	10	94	74	—	R62	25	22	G 3/8"	26
100	ø11 (thru hole)	ø17.5 with M14*2 (both side)	30	13	10	114	90	—	R75	32	27	G 3/8"	26

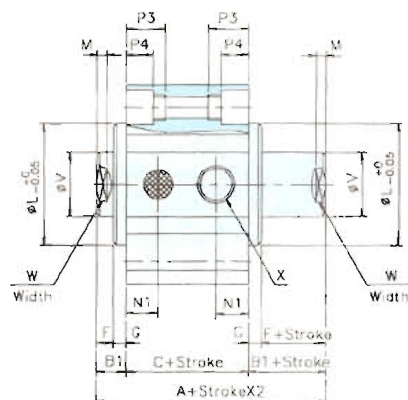
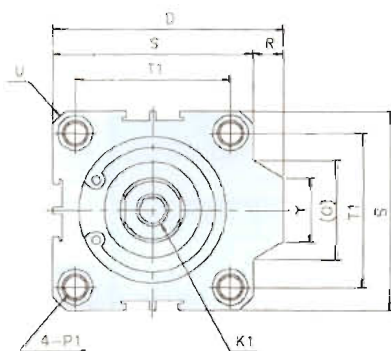
Note: Dimensions of male threads please refer to page 6.

Dimensions of Single Acting Type - SSAD SSADS

ø12&ø16



ø20~ø40



Bore size mm	Without Magnet			With Magnet			D	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C									
12	37	5	27	47	5	37	—	4	1	M3*0.5 Depth = 6mm	11	3	6.5	6	—
16	39.5	5.5	28.5	49.5	5.5	38.5	—	4	1.5	M3*0.5 Depth = 6mm	11	3	7	6.5	—
20	40.5	5.5	29.5	50.5	5.5	39.5	36	4	1.5	M4*0.7 Depth = 8mm	15	3	7.5	—	12.3
25	43	6	31	53	6	41	42	4	2	M5*0.8 Depth = 10mm	17	3	8	—	12.3
32	48.5	7	34.5	58.5	7	44.5	50	4	3	M6*1.0 Depth = 12mm	22	3	9	—	22.9
40	50	7	36	60	7	46	58.5	4	3	M8*1.25 Depth = 12mm	28	3	10	—	23.5

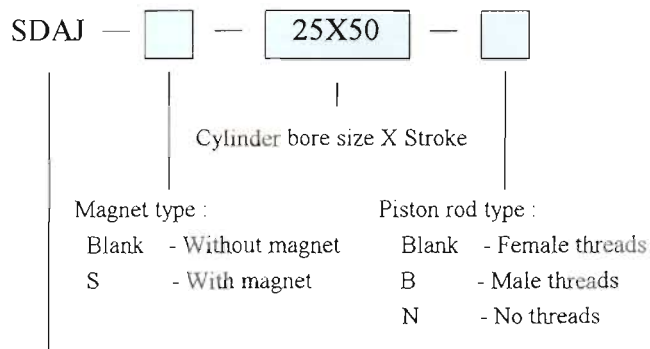
Bore size mm	P1			P3	P4	R	S	T1	T2	U	V	W	X	Y	Z
12	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			12	4.5	—	25	16.2	23	R16	6	5	M5	1
16	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			12	4.5	—	29	19.8	28	R19	6	5	M5	1
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			14	4.5	2	34	24	—	R22	8	6	M5	10
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			15	5.5	2	40	28	—	R25	10	8	M5	10
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)			20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16

Note. Dimensions of male threads please refer to page 6.

COMPACT CYLINDER

Double-Rod Cylinder - Adjustable Stroke Type

Ordering code



SDAJ - Adjustable stroke type compact cylinder - Standard type

SDAR - Adjustable stroke type compact cylinder - Inner Adjusting type

Specification

Bore size		mm	12	16	20	25	32	40	50	63	80	100
Action			Double acting type									
Fluid			Air									
Pressure range MPa { kgf/cm ² }	Double acting type	0.05 ~ 0.7 { 0.5 ~ 7.1 }					0.05 ~ 0.7 { 0.5 ~ 7.1 }					
	Single acting type	0.2 ~ 0.7 { 2.0 ~ 7.1 }							—			
Proof pressure MPa { kgf/cm ² }			1.35 { 13.5 }									
Temperature range °C			0 ~ 70									
Speed range mm/s	Double acting type	30 ~ 500							30 ~ 500		30 ~ 500	
	Single acting type	100 ~ 500							—			
Port size			M5*0.8				G 1/8"		G 1/4"		G 3/8"	

Cylinder size and stroke (mm) - Without Magnet

Bore size	Standard stroke	Adjustable stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	10 20 30	30	40
20 25	5 10 15 20 25 30 35 40	10 20 30 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	10 20 30 40 50	50	60

Cylinder size and stroke (mm) - With Magnet

Bore size	Standard stroke	Adjustable stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	10 20 30	30	40
20 25	5 10 15 20 25 30 35 40	10 20 30 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	10 20 30 40 50	50	60

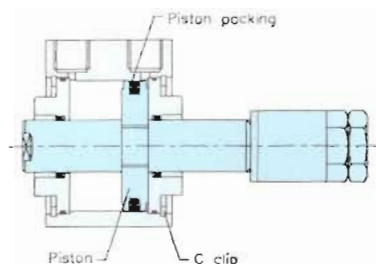
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

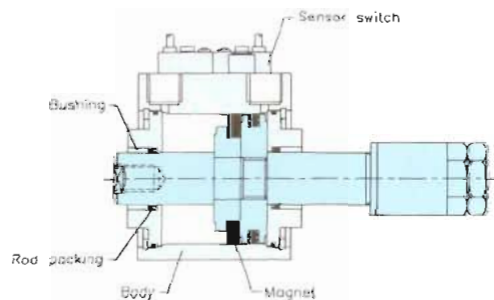
3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.

Inner Construction and Major parts

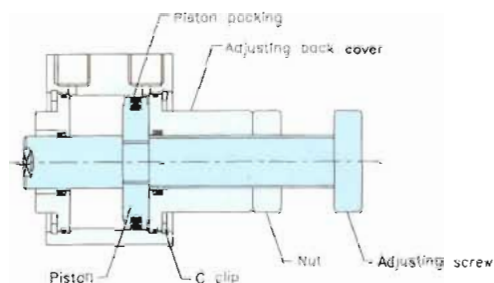
Double Acting Type : $\phi 12 \sim \phi 100$



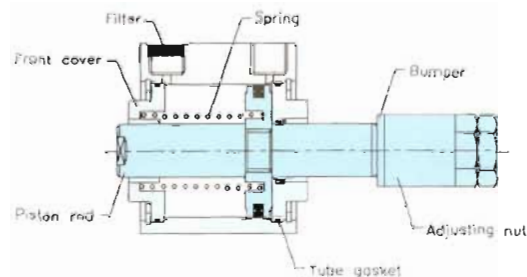
With Magnet : $\phi 12 \sim \phi 100$



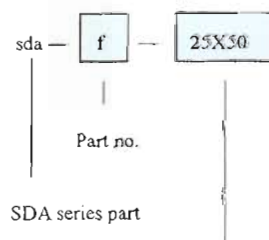
Inner Adjusting Type : $\phi 40 \sim \phi 63$



Single Acting Type : $\phi 12 \sim \phi 40$



How to order parts



SDA series part

Bore size X stroke *

Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	12	16	20	25	32	40	50	63	80	100
Body	b	Aluminum alloy									
Front cover	f	Copper	Aluminum alloy								
Piston	p	Aluminum alloy									
Piston rod	pr	Stainless steel	Hi-carbon steel with Hard chrome plated								
Tube gasket	tg	NBR									
Piston packing	apa	NBR									
Rod packing	mya	NBR									
Piston gasket	pg	—				NBR					
Bushing	bs	—		Copper							
Magnet	m	Plastic									
Spring	s	Stainless Steel									
C Clip	c	Hard steel with nickel plated									
Filter	fi	Copper									
Adjusting nut	an	Hard steel with nickel plated									
Adjusting nut bumper	ab	PU									
Adjusting screw	as	Hard steel with nickel plated									
Adjusting back cover	ac	Aluminum alloy									

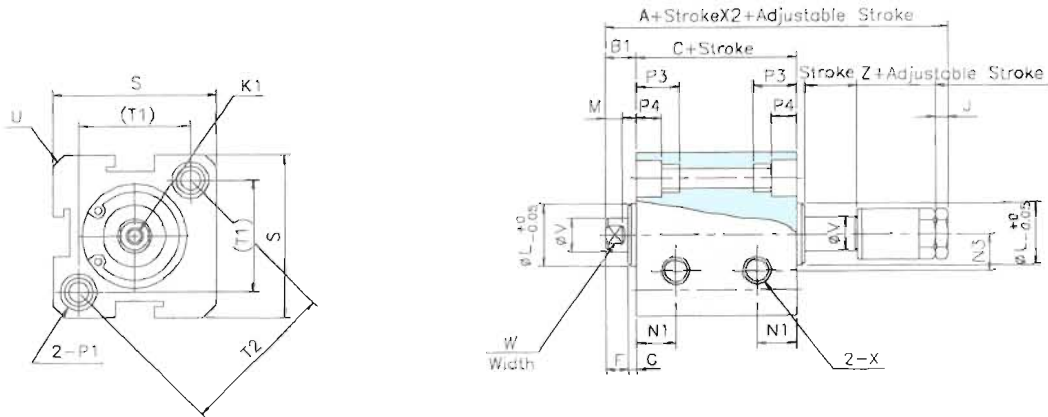
Note : Detail part number of packing please refer to packing list.

Packing list

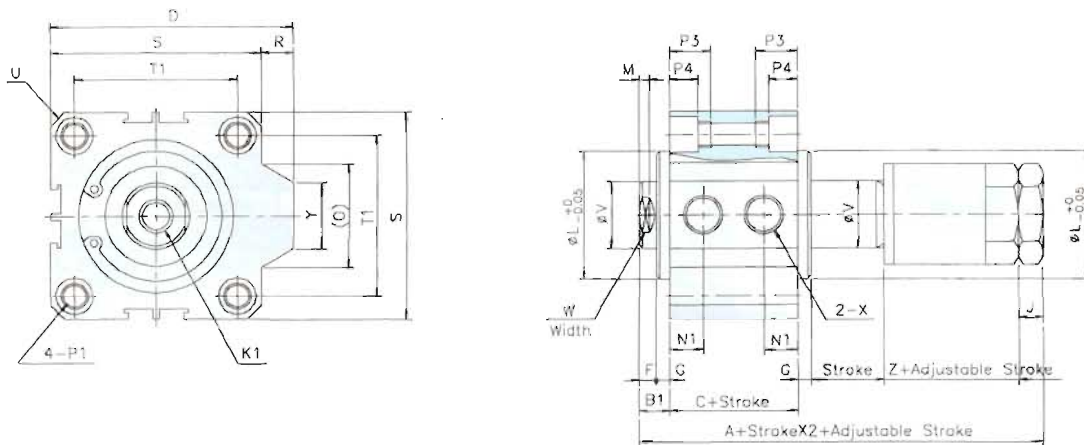
Bore size mm	Rod packing		Piston packing		Piston gasket	Tube gasket
	Double acting type	Single acting type	Double acting type	Single acting type		
12	mya-12*2	mya-12*1	apa-12*1	apa-12*1	—	S14*2
16	mya-16*2	mya-16*1	apa-16*1	apa-16*1	—	1.5*14.5*2
20	mya-20*2	mya-20*1	apa-20*1	apa-20*1	—	1.5*19.5*2
25	mya-25*2	mya-25*1	apa-25*1	apa-25*1	pg-25*1	1.5*24.5*2
32	mya-32*2	mya-32*1	apa-32*1	apa-32*1	pg-32*1	1.5*31.5*2
40	mya-40*2	mya-40*1	apa-40*1	apa-40*1	pg-40*1	1.5*39.5*2
50	mya-50*2	—	apa-50*1	—	pg-50*1	1.5*49.5*2
63	mya-63*2	—	apa-63*1	—	pg-63*1	1.5*62.5*2
80	mya-80*2	—	apa-80*1	—	pg-80*1	1.5*79.5*2
100	mya-100*2	—	apa-100*1	—	pg-100*1	2.0*98.5*2

Dimensions of Double Acting Type : (SDAJ SDAJS)

ø12&ø16



ø20~ø100



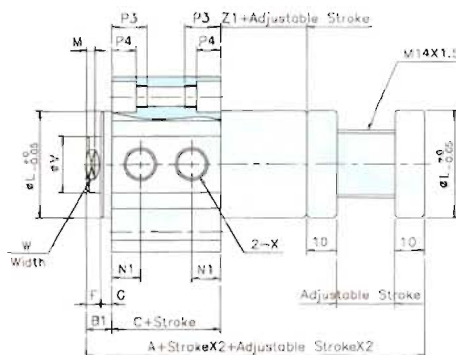
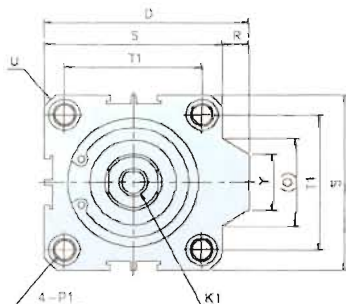
Bore size mm	Without Magnet			With Magnet			D	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C									
12	51	5	17	61	5	27	—	4	1	M3*0.5 Depth = 6mm	11	3	6.5	6	—
16	53.5	5.5	18.5	63.5	5.5	28.5	—	4	1.5	M3*0.5 Depth = 6mm	11	3	7	6.5	—
20	55.5	5.5	19.5	65.5	5.5	29.5	36	4	1.5	M4*0.7 Depth = 8mm	15	3	7.5	—	12.3
25	58	6	21	68	6	31	42	4	2	M5*0.8 Depth = 10mm	17	3	8	—	12.3
32	64.5	7	24.5	74.5	7	34.5	50	4	3	M6*1.0 Depth = 12mm	22	3	9	—	22.9
40	68	7	26	78	7	36	58.5	4	3	M8*1.25 Depth = 12mm	28	3	10	—	23.5
50	77	9	28	87	9	38	71.5	5	4	M10*1.5 Depth = 15mm	38	3	10	—	31
63	81	9	32	91	9	42	84.5	5	4	M10*1.5 Depth = 15mm	40	3	12	—	31
80	101	11	46	111	11	56	104	6	5	M14*1.5 Depth = 20mm	45	4	12.5	—	37.5
100	113	12	56	123	12	66	124	7	5	M18*1.5 Depth = 20mm	45	4	17	—	37.5

Bore size mm	P1			P3	P4	R	S	T1	T2	U	V	W	X	Y	Z
12	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			12	4.5	—	25	16.2	23	R16	6	5	M5	20
16	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			12	4.5	—	29	19.8	28	R19	6	5	M5	20
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			14	4.5	2	34	24	—	R22	8	6	M5	10
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			15	5.5	2	40	28	—	R25	10	8	M5	10
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)			20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16
50	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)			25	8.5	9.5	62	48	—	R41	20	17	G 1/4"	20
63	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)			25	8.5	9.5	75	60	—	R50	20	17	G 1/4"	20
80	ø9.2 (thru hole)	ø14 with M12*1.75 (both side)			25	10.5	10	94	74	—	R62	25	22	G 3/8"	26
100	ø11 (thru hole)	ø17.5 with M14*2 (both side)			30	13	10	114	90	—	R75	32	27	G 3/8"	26

Note. Dimensions of male threads please refer to page 6.

Dimensions of Single Acting Type : (SDAR SDARS)

ø20~ø63



Bore size mm	Without Magnet			With Magnet			D	F	G	K1		L	M	N1	N3	O
	A	B1	C	A	B1	C										
20	65	5.5	29.5	75	5.5	39.5	36	4	1.5	M4*0.7	Depth = 8mm	15	3	7.5	—	12.3
25	67	6	31	77	6	41	42	4	2	M5*0.8	Depth = 10mm	17	3	8	—	12.3
32	71.5	7	34.5	81.5	7	44.5	50	4	3	M6*1.0	Depth = 12mm	22	3	9	—	22.9
40	73	7	26	83	7	36	58.5	4	3	M8*1.25	Depth = 12mm	28	3	10	—	23.5
50	77	9	28	87	9	38	71.5	5	4	M10*1.5	Depth = 15mm	38	3	10	—	31
63	81	9	32	91	9	42	84.5	5	4	M10*1.5	Depth = 15mm	40	3	12	—	31

Bore size mm	P1		P3	P4	R	S	T1	T2	U	V	W	X	Y	Z1
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)	12	4.5	2	34	24	—	R22	8	6	M5	10	20
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)	15	5.5	2	40	28	—	R25	10	8	M5	10	20
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)	16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16	20
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)	20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16	20
50	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)	25	8.5	9.5	62	48	—	R41	20	17	G 1/4"	20	20
63	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)	25	8.5	9.5	75	60	—	R50	20	17	G 1/4"	20	20

Note. Dimensions of male threads please refer to page 6.

COMPACT CYLINDER

Duplex Cylinder - Double Acting Type Single Acting Type

Ordering code

SDAT — — 25X20X20 —

Cylinder
bore size X Stroke 1 X Stroke 2

Magnet type :

Blank - Without magnet

S - With magnet

Piston rod type :

Blank - Female threads

B - Male threads

N - No threads

SDAT - Duplex compact cylinder - Double acting type

SSAT - Duplex compact cylinder - Push type

STAT - Duplex compact cylinder - Pull type

Specification

Bore size		mm	12	16	20	25	32	40	50	63	80	100	
Action			Double acting type				Single acting type			Double acting type			
Fluid			Air										
Pressure range MPa { kgf/cm ² }	Double acting type	0.05 ~ 0.7 { 0.5 ~ 7.1 }					0.05 ~ 0.7 { 0.5 ~ 7.1 }						
	Single acting type	0.2 ~ 0.7 { 2.0 ~ 7.1 }							—				
Proof pressure		MPa { kgf/cm ² }	1.35 { 13.5 }										
Temperature range		℃	0 ~ 70										
Speed range mm/s	Double acting type	30 ~ 500							30 ~ 500		30 ~ 500		
	Single acting type	100 ~ 500							—				
Port size			M5*0.8				G 1/8"		G 1/4"		G 3/8"		

Cylinder size and stroke (mm) - Without Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	30	40
20 25	5 10 15 20 25 30 35 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	50	60

Cylinder size and stroke (mm) - With Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	30	40
20 25	5 10 15 20 25 30 35 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	50	60

Note : 1. Above strokes are applicable for both stroke 1 and stroke 2.

2. Stroke tolerance 0, +1.

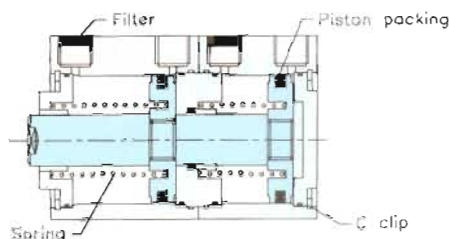
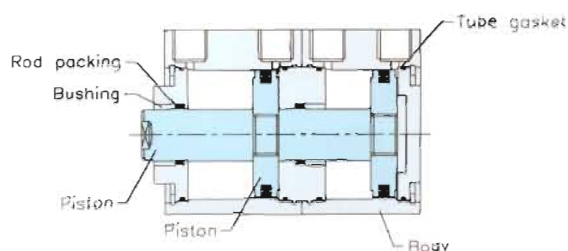
3. Consult us for non-standard stroke and special piston rod.

4. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.

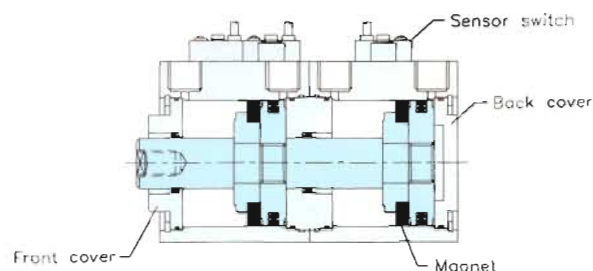
Inner Construction and Major parts

Double Acting Type : $\phi 12 \sim \phi 100$

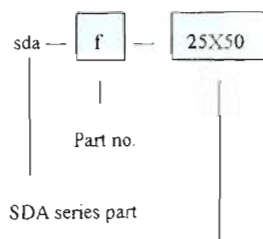
Push Type : $\phi 12 \sim \phi 40$



With Magnet : $\phi 12 \sim \phi 100$



How to order parts



Bore size X stroke *

Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	12	16	20	25	32	40	50	63	80	100
Body	b	Aluminum alloy									
Front cover	f	Copper	Aluminum alloy								
Back cover	bc	Copper	Aluminum alloy								
Piston	p	Aluminum alloy									
Piston rod	pr	Stainless steel	Hi-carbon steel with Hard chrome plated								
Tube gasket	tg	NBR									
Piston packing	apa	NBR									
Rod packing	mya	NBR									
Piston gasket	pg	—		NBR							
Bushing	bs	—		Copper							
Magnet	m	Plastic									
Spring	s	Stainless Steel									
C Clip	c	Steel with nickel plated									
Filter	fi	Copper									
Joint kit	jk	Aluminum alloy									

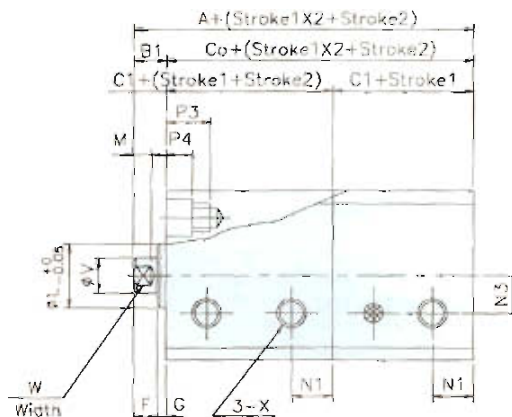
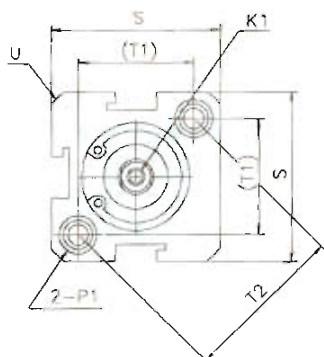
Note : Detail part number of packing please refer to packing list.

Packing list

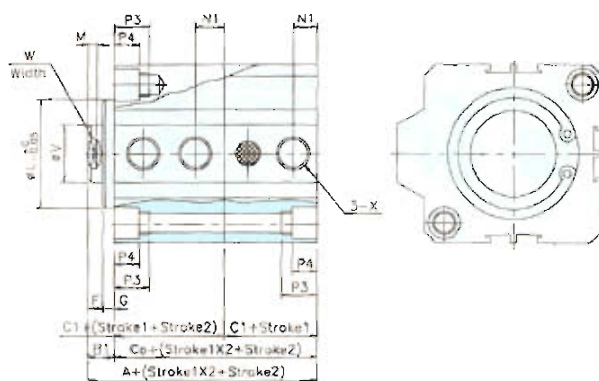
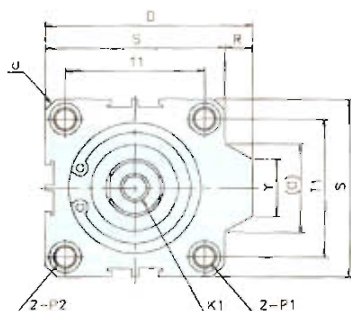
Bore size mm	Rod packing		Piston packing		Piston gasket	Tube gasket
	Double acting type Pull type	Push type	Double acting type	Single acting type	Double acting type Single acting type	Double acting type Single acting type
12	mya-12*2	—	apa-12*2	apa-12*2	—	S14*4
16	mya-16*2	—	apa-16*2	apa-16*2	—	1.5*14.5*4
20	mya-20*2	—	apa-20*2	apa-20*2	—	1.5*19.5*4
25	mya-25*2	—	apa-25*2	apa-25*2	pg-25*2	1.5*24.5*4
32	mya-32*2	—	apa-32*2	apa-32*2	pg-32*2	1.5*31.5*4
40	mya-40*2	—	apa-40*2	apa-40*2	pg-40*2	1.5*39.5*4
50	mya-50*2	—	apa-50*2	—	pg-50*2	1.5*49.5*4
63	mya-63*2	—	apa-63*2	—	pg-63*2	1.5*62.5*4
80	mya-80*2	—	apa-80*2	—	pg-80*2	1.5*79.5*4
100	mya-100*2	—	apa-100*2	—	pg-100*2	2.0*98.5*4

Dimensions of Double Acting Type - SDAT SDATS

ø12&ø16



ø20~ø100



Bore size mm	Without Magnet				With Magnet				D	F	G	K1		L	M	N1	N3	O
	A	B1	C0	C1	A	B1	C0	C1										
12	39	5	34	17	37	5	54	27	—	4	1	M3*0.5	Depth = 6mm	11	3	6.5	6	—
16	42.5	5.5	37	18.5	39.5	5.5	57	28.5	—	4	1.5	M3*0.5	Depth = 6mm	11	3	7	6.5	—
20	44.5	5.5	39	19.5	40.5	5.5	59	29.5	36	4	1.5	M4*0.7	Depth = 8mm	15	3	7.5	—	12.3
25	48	6	42	21	43	6	62	31	42	4	2	M5*0.8	Depth = 10mm	17	3	8	—	12.3
32	56	7	49	24.5	48.5	7	69	34.5	50	4	3	M6*1.0	Depth = 12mm	22	3	9	—	22.9
40	59	7	52	26	50	7	72	36	58.5	4	3	M8*1.25	Depth = 12mm	28	3	10	—	23.5
50	65	9	56	28	56	9	76	38	71.5	5	4	M10*1.5	Depth = 15mm	38	3	10	—	31
63	73	9	64	32	60	9	84	42	84.5	5	4	M10*1.5	Depth = 15mm	40	3	12	—	31
80	93	11	82	46	78	11	102	56	104	6	5	M14*1.5	Depth = 20mm	45	4	12.5	—	37.5
100	114	12	102	56	90	12	122	66	124	7	5	M18*1.5	Depth = 20mm	45	4	17	—	37.5

Bore size mm	P1		P3	P4	R	S	T1	T2	U	V	W	X	Y
12	—		12	4.5	—	25	16.2	23	R16	6	5	M5	—
16	—		12	4.5	—	29	19.8	28	R19	6	5	M5	—
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)	14	4.5	2	34	24	—	R22	8	6	M5	10
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)	15	5.5	2	40	28	—	R25	10	8	M5	10
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)	16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)	20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16
50	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)	25	8.5	9.5	62	48	—	R41	20	17	G 1/4"	20
63	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)	25	8.5	9.5	75	60	—	R50	20	17	G 1/4"	20
80	ø9.2 (thru hole)	ø14 with M12*1.75 (both side)	25	10.5	10	94	74	—	R62	25	22	G 3/8"	26
100	ø11 (thru hole)	ø17.5 with M14*2 (both side)	30	13	10	114	90	—	R75	32	27	G 3/8"	26

Note. Dimensions of male threads please refer to page 6.

COMPACT CYLINDER

Double-End Cylinder - Double Acting Type Single Acting Type

Ordering code

SDAW — — 25X20X20 —

Cylinder
bore size X Stroke 1 X Stroke 2

Magnet type : Piston rod type :
Blank - Without magnet Blank - Female threads
S - With magnet B - Male threads
N - No threads

SDAW - Double-End compact cylinder - Double acting type

SSAW - Double-End compact cylinder - Push type

STAW - Double-End compact cylinder - Pull type

Specification

Bore size		mm	12	16	20	25	32	40	50	63	80	100	
Action			Double acting type				Single acting type			Double acting type			
Fluid			Air										
Pressure range MPa { kgf/cm ² }	Double acting type	0.05 ~ 0.7 { 0.5 ~ 7.1 }					0.05 ~ 0.7 { 0.5 ~ 7.1 }						
	Single acting type	0.2 ~ 0.7 { 2.0 ~ 7.1 }							—				
Proof pressure		MPa { kgf/cm ² }	1.35 { 13.5 }										
Temperature range		℃	0 ~ 70										
Speed range mm/s	Double acting type	30 ~ 500							30 ~ 500		30 ~ 500		
	Single acting type	100 ~ 500							—				
Port size			M5*0.8				G 1/8"		G 1/4"		G 3/8"		

Cylinder size and stroke (mm) - Without Magnet

Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	30	40
20 25	5 10 15 20 25 30 35 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	50	60

Cylinder size and stroke (mm) - With Magnet

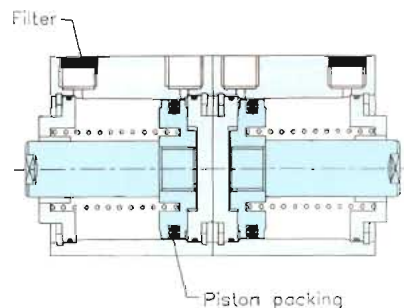
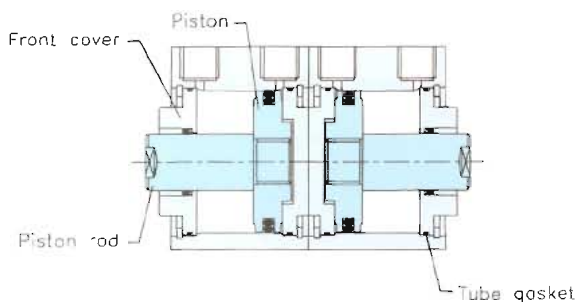
Bore size	Standard stroke	Maximum stroke	Available stroke
12 16	5 10 15 20 25 30	30	40
20 25	5 10 15 20 25 30 35 40	40	50
32 40 50 63 80 100	5 10 15 20 25 30 35 40 45 50	50	60

- Note : 1. Above strokes are applicable for both stroke 1 and stroke2.
2. Stroke tolerance 0, +1.
3. Consult us for non-standard stroke and special piston rod.
4. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.

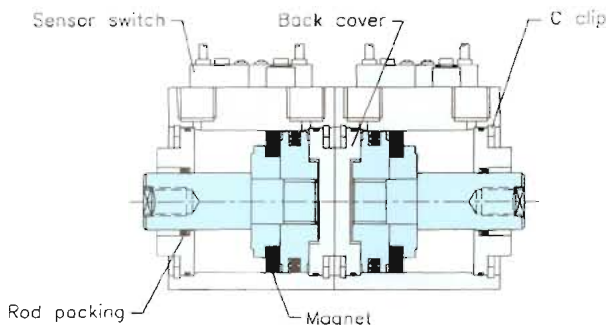
Inner Construction and Major parts

Double Acting Type : $\phi 12 \sim \phi 100$

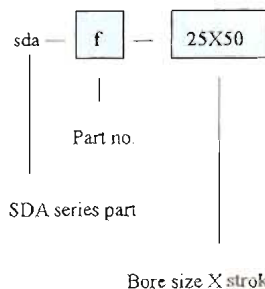
Push Type : $\phi 12 \sim \phi 40$



With Magnet : $\phi 12 \sim \phi 100$



How to order parts



Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	12	16	20	25	32	40	50	63	80	100
Body	b	Aluminum alloy									
Front cover	f	Copper	Aluminum alloy								
Back cover	bc	Copper	Aluminum alloy								
Piston	p	Aluminum alloy									
Piston rod	pr	Stainless steel	Hi-carbon steel with Hard chrome plated								
Tube gasket	tg	NBR									
Piston packing	apa	NBR									
Rod packing	mya	NBR									
Piston gasket	pg	—			NBR						
Bushing	bs	—			Copper						
Magnet	m	Plastic									
Spring	s	Stainless Steel									
C Clip	c	Steel with nickel plated									
Filter	fi	Copper									

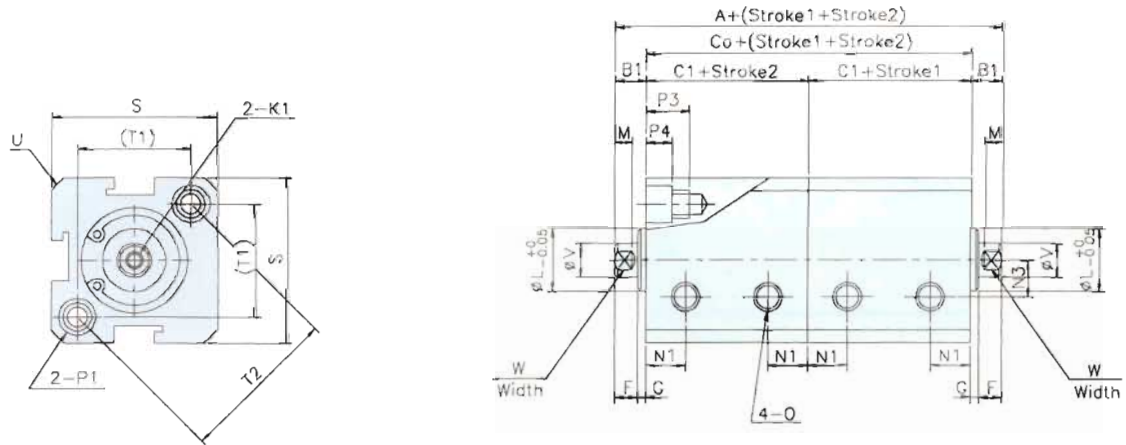
Note : Detail part number of packing please refer to packing list.

Packing list

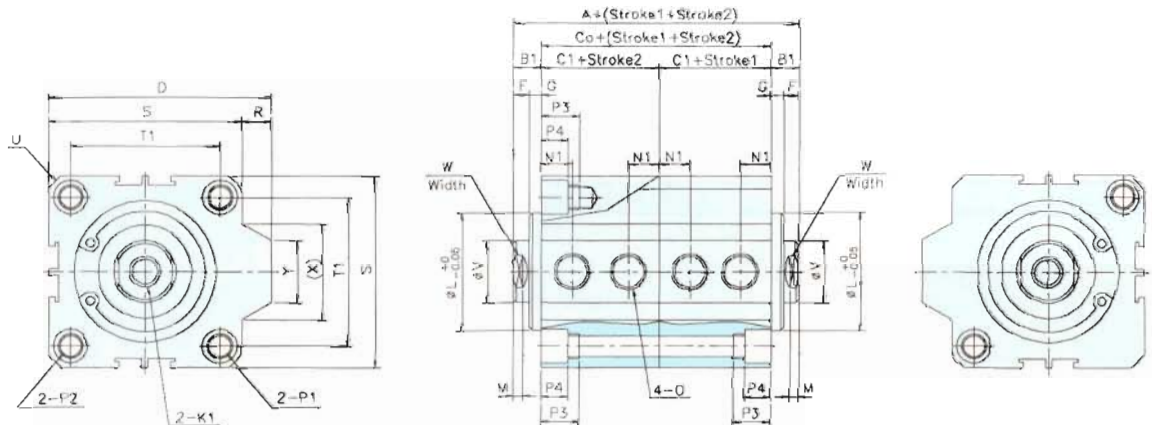
Bore size mm	Rod packing		Piston packing		Piston gasket	Tube gasket
	Double acting type Pull type	Push type	Double acting type	Single acting type	Double acting type Single acting type	Double acting type Single acting type
12	mya-12*2	—	apa-12*2	apa-12*2	—	S14*4
16	mya-16*2	—	apa-16*2	apa-16*2	—	1.5*14.5*4
20	mya-20*2	—	apa-20*2	apa-20*2	—	1.5*19.5*4
25	mya-25*2	—	apa-25*2	apa-25*2	pg-25*2	1.5*24.5*4
32	mya-32*2	—	apa-32*2	apa-32*2	pg-32*2	1.5*31.5*4
40	mya-40*2	—	apa-40*2	apa-40*2	pg-40*2	1.5*39.5*4
50	mya-50*2	—	apa-50*2	—	pg-50*2	1.5*49.5*4
63	mya-63*2	—	apa-63*2	—	pg-63*2	1.5*62.5*4
80	mya-80*2	—	apa-80*2	—	pg-80*2	1.5*79.5*4
100	mya-100*2	—	apa-100*2	—	pg-100*2	2.0*98.5*4

Dimensions of Double Acting Type - SDAW SDAWS

ø12&ø16



ø20~ø100



Bore size mm	Without Magnet				With Magnet				D	F	G	K1		L	M	N1	N3	O
	A	B1	C0	C1	A	B1	C0	C1										
12	39	5	34	17	37	5	34	27	—	4	1	M3*0.5	Depth = 6mm	11	3	6.5	6	—
16	42.5	5.5	37	18.5	39.5	5.5	37	28.5	—	4	1.5	M3*0.5	Depth = 6mm	11	3	7	6.5	—
20	44.5	5.5	39	19.5	40.5	5.5	39	29.5	36	4	1.5	M4*0.7	Depth = 8mm	15	3	7.5	—	12.3
25	48	6	42	21	43	6	42	31	42	4	2	M5*0.8	Depth = 10mm	17	3	8	—	12.3
32	56	7	49	24.5	48.5	7	49	34.5	50	4	3	M6*1.0	Depth = 12mm	22	3	9	—	22.9
40	59	7	52	26	50	7	52	36	58.5	4	3	M8*1.25	Depth = 12mm	28	3	10	—	23.5
50	65	9	56	28	56	9	56	38	71.5	5	4	M10*1.5	Depth = 15mm	38	3	10	—	31
63	73	9	64	32	60	9	64	42	84.5	5	4	M10*1.5	Depth = 15mm	40	3	12	—	31
80	93	11	82	46	78	11	82	56	104	6	5	M14*1.5	Depth = 20mm	45	4	12.5	—	37.5
100	114	12	102	56	90	12	102	66	124	7	5	M18*1.5	Depth = 20mm	45	4	17	—	37.5

Bore size mm	P1				P3	P4	R	S	T1	T2	U	V	W	X	Y
12	—				12	4.5	—	25	16.2	23	R16	6	5	M5	—
16	—				12	4.5	—	29	19.8	28	R19	6	5	M5	—
20	ø3.5 (thru hole)	ø6.5 with M5*0.8 (both side)			14	4.5	2	34	24	—	R22	8	6	M5	10
25	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			15	5.5	2	40	28	—	R25	10	8	M5	10
32	ø4.6 (thru hole)	ø8.0 with M6*1.0 (both side)			16	5.5	6	44	34	—	R29.5	12	10	G 1/8"	16
40	ø5.7 (thru hole)	ø9.5 with M8*1.25 (both side)			20	7.5	6.5	52	40	—	R35	16	14	G 1/8"	16
50	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)			25	8.5	9.5	62	48	—	R41	20	17	G 1/4"	20
63	ø6.8 (thru hole)	ø11 with M8*1.25 (both side)			25	8.5	9.5	75	60	—	R50	20	17	G 1/4"	20
80	ø9.2 (thru hole)	ø14 with M12*1.75 (both side)			25	10.5	10	94	74	—	R62	25	22	G 3/8"	26
100	ø11 (thru hole)	ø17.5 with M14*2 (both side)			30	13	10	114	90	—	R75	32	27	G 3/8"	26

Note. Dimensions of male threads please refer to page 6.

COMPACT CYLINDER

Sensor Switch

Ordering code

CS1

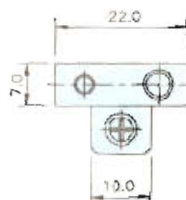
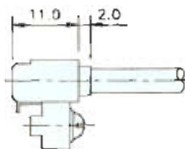
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Sensor type :

J : Band type (Compact cylinder used)

Sensor switch



Specification

Sensor Switch Type		J
Operating voltage range		DC5-DC24V AC24V-AC220V
Operating current range (mA)		5 ~ 100
Switching Characteristic	Response time	0.3ms max.
	Bouncing time	0.3ms max.
	Releasing time	0.05ms max.
	Frequency range	3-250Hz
Withstand voltage of contact point		200VDC min.
Temperature		0 ~ 60 °C (32 ~ 140 °F)
Shock resistance		30G (Non-repeated shock)
Vibration resistance		7g max.(10-55Hz)
Indicator lamp		Green LED goes on when in ON position
Lead wire		Gray ø4 X 2M
Electrical life		5X10 ⁶ times min.