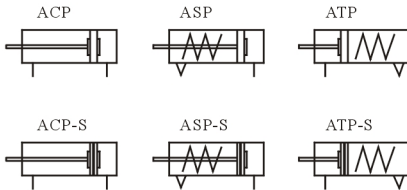


COMPACT CYLINDER

AirTAC

ACP、ASP、ATP SERIES

■ Symbol



■ Specification

Bore size (mm)		12	16	20	25	32	40	50	63	80	100
Action		Double acting type									
		Single acting-Push type					Single acting-Pull type				
Fluid		Air (to be filtered by 40u filter element)									
Pressure range	Double acting	1.0~9.0bar(0.1~0.9MPa)(15~130Psi)									
	Single acting	2.0~9.0bar(0.2~0.9MPa)(30~130Psi)									
Proof pressure		15.0bar(1.5MPa)(213Psi)									
Temperature range ℃		-5~70									
Speed range mm/s	Double acting	30~500					30~350			30~250	
	Single acting	30~500					30~350				
Cushion type		Bumper									
Port size*		M5 x 0.8				1/8				1/4"	

*Note: PT、BSPP、NPT thread are available.

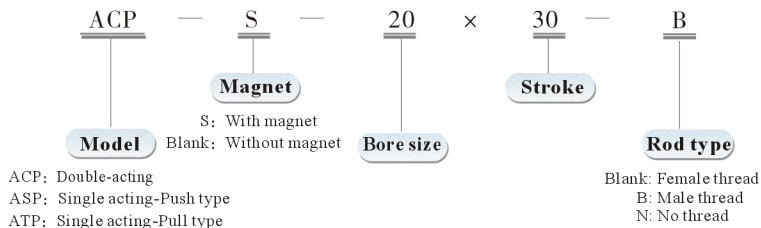
*Refer to PVI-46~VI-47 for detail information of sensor switch.

■ Stroke list

Bore size (mm)		Standard stroke	Max. Stroke
12	Double acting type	5 10 15 20 25 30 35 40 45 50	200
	Single acting type	5 10	-
16	Double acting type	5 10 15 20 25 30 35 40 45 50 55 60	200
	Single acting type	5 10	-
20、25	Double acting type	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120	200
	Single acting type	5 10 15 20 25	-
32、40	Double acting type	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120	300
	Single acting type	5 10 15 20 25	-
50、63	Double acting type	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120	400
	Single acting type	5 10 15 20 25	-

Contact us if any special requirement.

■ Ordering code

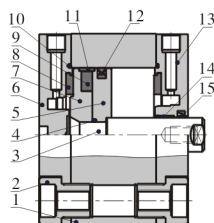


COMPACT CYLINDER

ACP、ASP、ATP SERIES

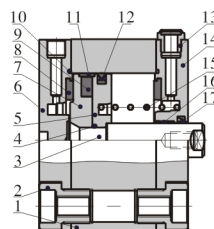
■ Inner structure

ACP-S



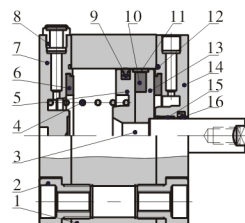
NO.	Item	NO.	Item
1	Body	9	Magnet
2	Screw	10	O-ring
3	Piston rod	11	Wear ring
4	O-ring	12	Piston O-ring
5	Piston	13	Front cover
6	Back cover	14	Bushing
7	Magnet holder	15	O-ring
8	Bumper		

ASP-S



NO.	Item	NO.	Item
1	Body	10	O-ring
2	Screw	11	Wear ring
3	Piston rod	12	Piston O-ring
4	O-ring	13	Silencer
5	Piston	14	Front cover
6	Back cover	15	Spring
7	Magnet holder	16	Bushing
8	Bumper	17	O-ring
9	Magnet		

ATP-S



NO.	Item	NO.	Item
1	Body	9	Piston O-ring
2	Screw	10	Magnet
3	Piston rod	11	Wear ring
4	Spring	12	O-ring
5	Piston	13	Magnet holder
6	Bumper	14	Front cover
7	Back cover	15	Bushing
8	Silencer	16	O-ring

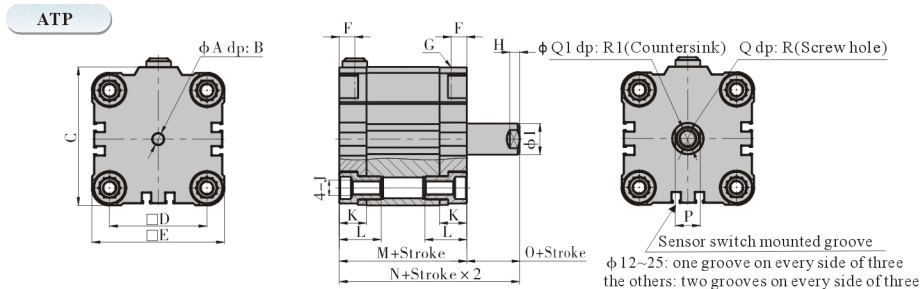
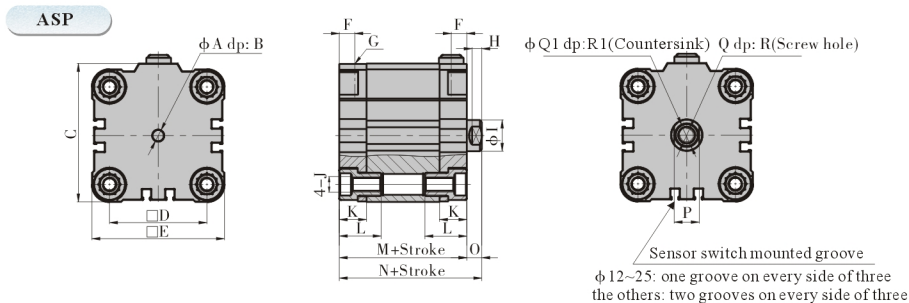
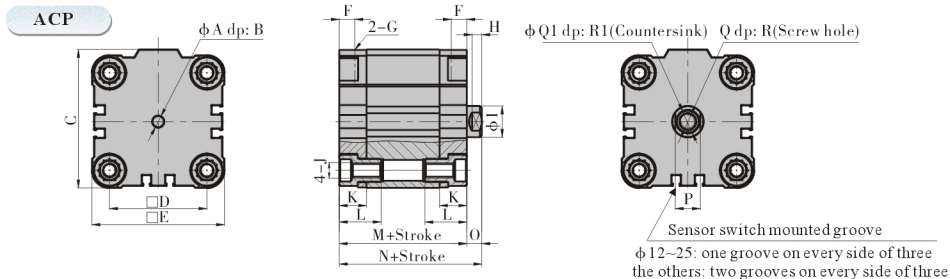
■ Material of major parts

Item\Bore size	12	16	20	25	32	40	50	63	80	100
Back cover						Aluminum alloy				
Piston						Aluminum alloy				
Body						Aluminum alloy				
Spring holler	Aluminum	POM			-					
Magnet holler	alloy						Aluminum alloy			
Front cover						Aluminum alloy				
Bumper						TPU				
O-ring						NBR				
O-ring						NBR				
Piston rod	Stainless steel			Carbon steel with 20u chrome plated						
Wear ring	-					PTFE+Graphite				
Bushing	-					Wearable material				
Spring						SWPB				
Magnet	Sintered metal(Neodymium-Iron-Boron)					Plastic				

COMPACT CYLINDER

ACP、ASP、ATP SERIES

■ Dimensions



Item Bore size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Q1	R	R1
12	6	4	30	18	29	7	M5 × 0.8	3	6	M4 × 0.7	11.5	18.5	38	42.5	4.5	5	M3 × 0.5	3.3	8	1.5
16	6	4	30	18	29	7	M5 × 0.8	3	8	M4 × 0.7	11.5	18.5	38	42.5	4.5	6	M4 × 0.7	4.5	10	1.5
20	6	4	37.5	22	36	7	M5 × 0.8	3	10	M5 × 0.8	11.5	18.5	38	42.5	4.5	8	M5 × 0.8	5.5	12	2
25	6	4	41.5	26	40	7	M5 × 0.8	4	10	M5 × 0.8	11.5	18.5	39.5	45	5.5	8	M5 × 0.8	5.5	12	2
32	6	4	52	32	50	8	1/8"	4.5	12	M6 × 1.0	14	21.5	44.5	50.5	6	10	M6 × 1.0	6.5	14	2.6
40	6	4	62.5	42	60	8	1/8"	4.5	12	M6 × 1.0	14	21.5	45.5	52	6.5	10	M6 × 1.0	6.5	14	2.6
50	6	4	71	50	68	8	1/8"	5	16	M8 × 1.25	14	22	45.5	53	7.5	13	M8 × 1.25	8.5	16	3.3
63	8	4	91	62	87	8	1/8"	5	16	M10 × 1.5	15	24.5	50	57.5	7.5	13	M8 × 1.25	8.5	16	3.3
80	8	4	111	82	107	8.5	1/8"	5.5	20	M10 × 1.5	16	27.5	56	64	8	17	M10 × 1.5	10.5	20	4.7
100	8	4	133	103	128	10.5	1/4"	7.5	25	M10 × 1.5	19	32.5	66.5	76.5	10	22	M12 × 1.75	12.5	24	6.1

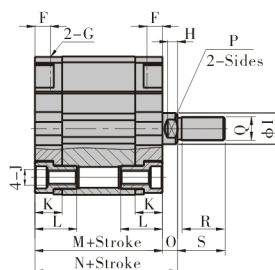
Note: the mounting dimensions are the same whether a magnet assembled or not.



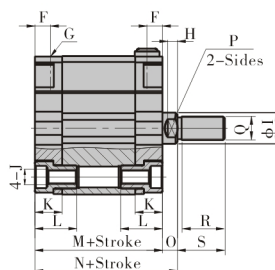
AirTAC

■ Dimensions

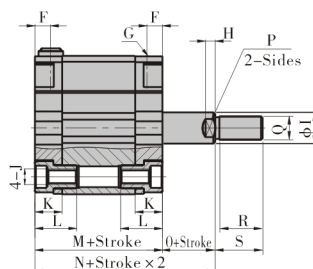
Sensor switch mounted groove
 $\phi 12 \sim 25$: one groove on every side of three
the others: two grooves on every side of three



Sensor switch mounted groove
 $\phi 12\sim 25$: one groove on every side of three
the others: two grooves on every side of three



Sensor switch mounted groove
 $\phi 12\sim 25$: one groove on every side of three
the others: two grooves on every side of three



Item Bore size	Item																Q	R	S
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P			
12	6	4	30	18	29	7	M5 × 0.8	3	6	M4 × 0.7	11.5	18.5	38	42.5	4.5	5	M6 × 1.0	14	16
16	6	4	30	18	29	7	M5 × 0.8	3	8	M4 × 0.7	11.5	18.5	38	42.5	4.5	6	M8 × 1.25	18	20
20	6	4	37.5	22	36	7	M5 × 0.8	3	10	M5 × 0.8	11.5	18.5	38	42.5	4.5	8	M10 × 1.25	20	22
25	6	4	41.5	26	40	7	M5 × 0.8	4	10	M5 × 0.8	11.5	18.5	39.5	45	5.5	8	M10 × 1.25	20	22
32	6	4	52	32	50	8	1/8"	4.5	12	M6 × 1.0	14	21.5	44.5	50.5	6	10	M10 × 1.25	20	22
40	6	4	62.5	42	60	8	1/8"	4.5	12	M6 × 1.0	14	21.5	45.5	52	6.5	10	M10 × 1.25	20	22
50	6	4	71	50	68	8	1/8"	5	16	M8 × 1.25	14	22	45.5	53	7.5	13	M12 × 1.25	22	24
63	8	4	91	62	87	8	1/8"	5	16	M10 × 1.5	15	24.5	50	57.5	7.5	13	M12 × 1.25	22	24
80	8	4	111	82	107	8.5	1/8"	5.5	20	M10 × 1.5	16	27.5	56	64	8	17	M16 × 1.5	30	32
100	8	4	133	103	128	10.5	1/4"	7.5	25	M10 × 1.5	19	32.5	66.5	76.5	10	22	M20 × 1.5	38	40

Note: the mounting dimensions are the same whether a magnet assembled or not.

