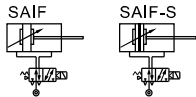


ISO15552 Standard cylinder

SAIF Series—With valve type



Symbol



Product feature

1. For Standard Cylinders: use 4M210 valve for bore size 32, 40 & 50; 4M310 valve for bore size 63, 80 & 100mm.
2. Individually control, no need for extra solenoid valves.
3. Installation time & space saving; suitable for decentralize installation in large system.
4. Options of mounting accessories & easy installation.

Stroke

Bore size (mm)	Standard stroke (mm)	Mini. stroke	Max. std. stroke	Max. stroke
32	50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	50 (125)	1000	1800
40	50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	50 (125)	1200	1800
50	50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	50 (125)	1200	1800
63 80 100	50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	50 (125)	1500	1800

[Note] Consult us for non-standard stroke.

Add: The value in "()" is the mini. stroke value with TC type.

Specification

Cylinder specification											
Bore size(mm)	32	40	50	63	80	100					
Acting type	Double acting										
Fluid	Air(to be filtered by 40μm filter element)										
Mounting type	Basic	FA	FB	CA	CB	CR	LB	TC	FTC	TCM1	TCM2
Operating pressure	0.15~1.0MPa(22~145psi)(1.5~10.0bar)										
Proof pressure	1.5MPa(215psi)(15bar)										
Temperature °C	-20~70										
Speed range mm/s	30~800										
Stroke tolerance	0~250 ^{+1.0} ₀ 251~1000 ^{+1.5} ₀ 1001~1500 ^{+2.0} ₀										
Cushion type	Variable cushion										
Adjustable cushionstroke	27		30		36						
Port size	1/8"	1/4"		3/8"		1/2"					
PU tube size(ODXID)	Φ8×Φ5			Φ10×Φ6.5							
Solenoid valve specification											
Model	4M210-06 & 4M210-08		4M310-08 & 4M310-10								
Fluid	Air(to be filtered by 40μm filter element)										
Acting type	Internal piloted										
Port size [Note1]	In=Exhaust=1/8" & In=1/4" Exhaust=1/8"		In=Exhaust=1/4" & In=PT3/8 Exhaust=1/4"								
Orifice size	4M210-06 : 14.0mm ² (Cv=0.78)		4M310-08 : 25.0mm ² (Cv=1.40)								
	4M210-08 : 16.0mm ² (Cv=0.89)		4M310-10 : 30.0mm ² (Cv=1.68)								
Valve type	5 port 2 position										
Operating pressure	0.15~0.8MPa(21~114psi)										
Proof pressure	1.2MPa(175psi)										
Temperature °C	-20~70										
Body material	Aluminum alloy										
Lubrication [Note2]	Not required										
Max. frequency [Note3]	5 cycle/sec		4 cycle/sec								
Coil specification											
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V										
Scope voltage	AC : ±15% DC : ±10%										
Power consumption	AC : 3.5VA DC : 3.0W										
Protection	IP65(DIN40050)										
Temperature classification	B Class										
Electrical entry	Terminal, Grommet										
Actuating time	0.05 sec and below										

[Note1] PT thread, G thread are available.

[Note2] It can't stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended.

[Note3] The maximum actuation frequency is in the no-load state.

Add) Refer to P362 for detail of sensor switch,

Ordering code

SAIF 50 ×1000 S □ - 06 A □ □



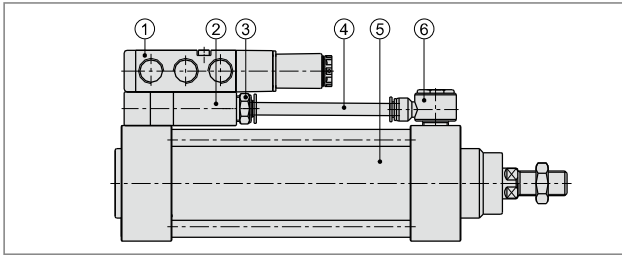
① Model	② Bore size	③ Stroke	④ Magnet	⑤ Mounting type[Note1]	⑥ Port size	⑦ Voltage	⑧ Electrical entry	⑨ Thread type
SAIF: Double acting with valve type	32 40 50 63 80 100	Refer to stroke table for details	Blank: Without magnet S: With magnet	Blank	06 : 1/8"	A : AC220V B : DC24V C : AC110V E : AC24V F : DC12V	Blank: Terminal I: Grommet	Blank: PT G: G
				LB	08 : 1/4"			
				FA	10 : 3/8"			
				FB				
				CA				
				CB				
				CR				
				FTC				
TC								

[Note1] CR is used with CB, FTC and TC are used with TCM1 and TCM2, please refer to page 22~24 for details.

ISO15552 Standard cylinder

SAIF Series—With valve type

Inner structure

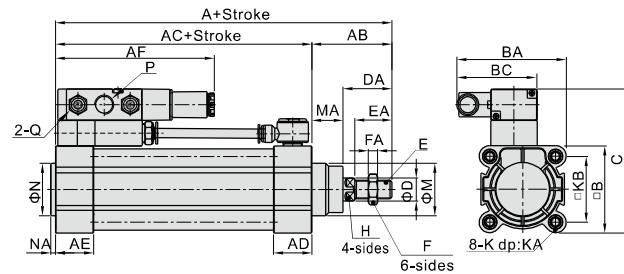


NO.	Item
1	4M series solenoid valve
2	Unite block
3	APC series tube connector
4	PU tube
5	SAI series cylinder
6	APH series tube connector

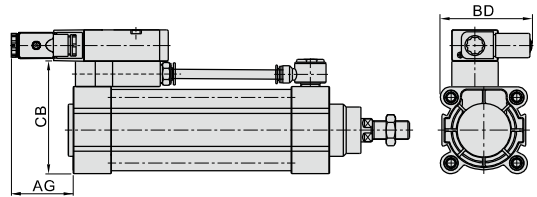
Note: inner structure & material data sheet is based on certain bore size. Please contact AirTAC if you need inner structure & material data sheet for specific bore size.

Dimensions

Pull when energized



Push when energized



Bore size\Item	A	AB	AC	AD	AE	AF	AG	B	BA	BC	BD	C	CB
32	142	48	94	27.5	27.5	117.5	53.5	47	78.5	67	67.5	91	69
40	159	54	105	32	32	120	51	53	82	67	70	97	75
50	175	69	106	31	31	118.5	52.5	65	89.5	67	74.5	109	87
63	190	69	121	33	33	137	53	75	94.5	69.5	79.5	124	97
80	214	86	128	33	33	137	53	95	105.5	69.5	88	144	117
100	229	91	138	37	37	137.5	52.5	115	118	69.5	96	164	137

Bore size\Item	D	DA	E	EA	F	FA	H	M	MA	N	NA	Q	KB
32	12	29	M10X1.25	22	17	6	10	30	19	30	3	1/8"	32.5
40	16	33	M12X1.25	24	17	7	13	35	21	35	3.5	1/8"	38
50	20	42	M16X1.5	32	23	8	17	40	27	40	3.5	1/8"	46.5
63	20	42	M16X1.5	32	23	8	17	45	27	45	4	1/4"	56.5
80	25	53	M20X1.5	40	26	10	22	45	33	45	4	1/4"	72
100	25	55	M20X1.5	40	26	10	22	55	36	55	4	1/4"	89

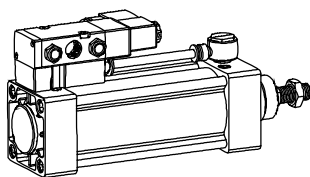
Bore size\Item	valve's type	P	K	KA
32	4M210-06	1/8"	M6	16
	4M210-08	1/4"		
40	4M210-06	1/8"	M6	16
	4M210-08	1/4"		
50	4M210-06	1/8"	M8	16
	4M210-08	1/4"		
63	4M310-08	1/4"	M8	16
	4M310-10	3/8"		
80	4M310-08	1/4"	M10	17
	4M310-10	3/8"		
100	4M310-08	1/4"	M10	17
	4M310-10	3/8"		

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

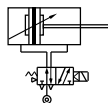
How to use

- Options for piston rod to retract or extend when solenoid coil is energized.
- Default factory setting will be piston rod to retract when energized (see Drawing one). Should you require piston rod to extend when energized, reposition the solenoid valve as shown in Drawing two.

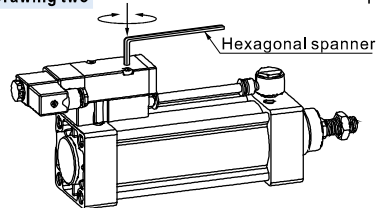
Drawing one



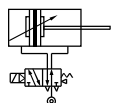
Pull when energized



Drawing two



Push when energized



Attention Ensure that the seals between the mounting block & valve are placed correctly when repositioning the valve.