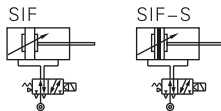


Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)



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 decentralized installation in large system.
4. Options of mounting accessories & easy installation.

Stroke

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

Note: Consult us for non-standard stroke.

Ordering code

SIF	50 × 1000	S
Model	Stroke	Magnet
SIF Double acting with valve type	Refer to stroke table for details	Blank Without magnet
		S With magnet
Bore size		
32		
40		
50		
63		
80		
100		

Specifications

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	0.1~1.0MPa(15~145psi)(1.0~10.0bar)										
Proof pressure	1.5MPa(215psi)(15bar)										
Temperature (°C)	-20~80										
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 cushion stroke	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 Note 1)	In=Exhaust=1/8" & In=1/4" Exhaust=1/8"						In=Exhaust=1/4" & In=3/8" Exhaust=1/4"				
Orifice size	4M210-06: 14.0mm ² (Cv=0.78) 4M210-08: 16.0mm ² (Cv=0.89)						4M310-08: 25.0mm ² (Cv=1.40) 4M310-10: 30.0mm ² (Cv=1.68)				
Valve type	5 port 2 position										
Operating pressure	0.15~0.8MPa(21~114psi)										
Proof pressure	1.5MPa(215psi)										
Temperature (°C)	-20~70										
Body material	Aluminum alloy										
Lubrication Note 2)	Not required										
Max. frequency Note 3)	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										
Activating time	0.05 sec and below										

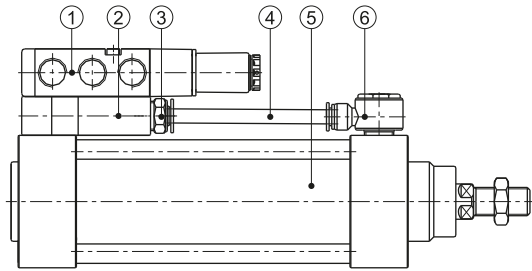
Note: 1. PT thread, G thread and NPT thread are available.

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

3. The maximum actuation frequency is in the no-load state.

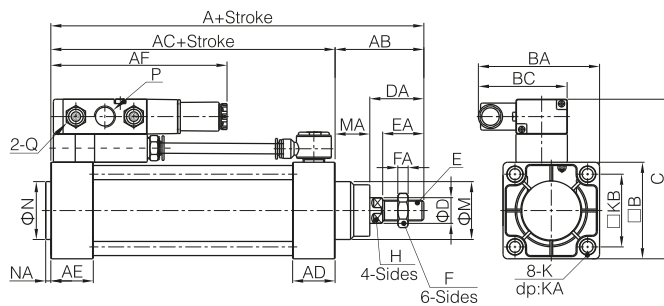
Inner structure

SIF



Dimensions

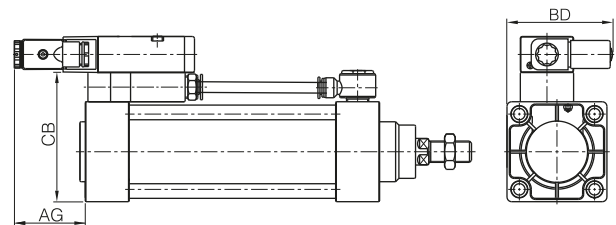
Pull when energized



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

Bore size\Item	C	CB	D	DA	E	EA	F	FA	M	MA	N	NA
32	91	69	12	29	M10×1.25	22	17	6	30	19	30	3
40	97	75	16	33	M12×1.25	24	17	7	35	21	35	3.5
50	109	87	20	42	M16×1.5	32	23	8	40	27	40	3.5
63	124	97	20	42	M16×1.5	32	23	8	45	27	45	4
80	144	117	25	53	M20×1.5	40	26	10	45	33	45	4
100	164	137	25	55	M20×1.5	40	26	10	55	36	55	4

Push when energized



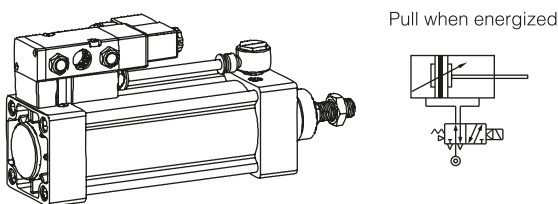
Bore size\Item	Compatible valve's type	P	Q	K	KA	KB	H
32	4M210-06	1/8"	1/8"	M6(No TC)	16(No TC)	32.5	10
	4M210-08	1/4"		M5(With TC)	14(With TC)		
40	4M210-06	1/8"	1/8"	M6(No TC)	16(No TC)	38	13
	4M210-08	1/4"		M5(With TC)	16(With TC)		
50	4M210-06	1/8"	1/8"	M8(No TC)	16(No TC)	46.5	17
	4M210-08	1/4"		M6(With TC)	16(With TC)		
63	4M310-08	1/4"	1/4"	M8(No TC)	16(No TC)	56.5	17
	4M310-10	3/8"		M6(With TC)	16(With TC)		
80	4M310-08	1/4"	1/4"	M10(No TC)	17(No TC)	72	22
	4M310-10	3/8"		M8(With TC)	16(With TC)		
100	4M310-08	1/4"	1/4"	M10(No TC)	17(No TC)	89	22
	4M310-10	3/8"		M8(With TC)	16(With TC)		

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

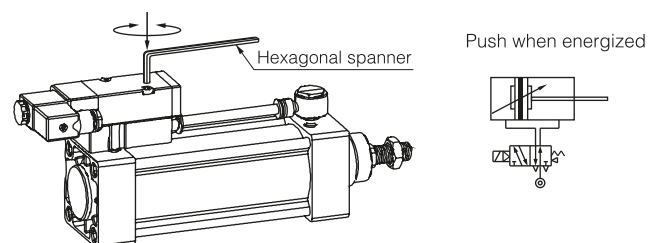
How to use

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

Drawing one



Drawing two



Attention

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

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1