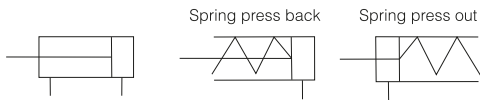




Symbol

Double action

Single action



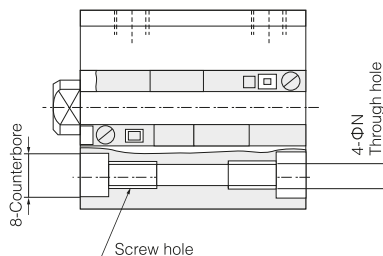
Ordering code

Built in magnetic ring		Bore size		Options		Magnetic switch type		Number of magnetic switches	
Blank	No built-in magnetic ring	32	32mm	Blank	Standard (rod end internal thread)	Blank	Without magnetic switch	Blank	2 pcs.
D	Built-in magnet ring	40	40mm	M	Rod end male thread		* Refer to tour/magnetic switch model list	S	1 pc.
		50	50mm				* No built-in magnetic ring cylinder no such item	n	"n" pcs.
		63	63mm						
		80	80mm						
		100	100mm						
Installation form		Stroke		Action					
B	Through-hole Both ends tapped common (Standard)	See the right table		D	Double action				
L	Foot type			S	Single action(Spring press out)				
F	Rod side flange type			T	Single action(Spring press back)				
G	Head side flange type								
D	Double clevis type								

Characteristic

Easy installation

Sharing of through holes and screw holes at both ends



Specifications

Bore size(mm)	12	16	20	25
Use fluid	Air (to be filtered by 40μm filter element)			
Action mode	Double acting, Single action: spring press back/spring press out			
Maximum operating pressure	1.0MPa			
Minimum operating pressure	0.07MPa		0.05MPa	
Ambient and fluid temperature	Without auto switch: -10 to 70℃ (No freezing) With auto switch: -10 to 60℃ (No freezing)			
Rod end thread	Internal thread (standard), external thread (optional)			
Buffer	Without			
Stroke tolerance (mm)	+1.0 0			
Cushion	Don't need			
Use piston speed	50~500mm/s			
Pipe size	M5×0.8			

Note: If oil is supplied, please use turbine No. 1 oil ISOVG32.

Stroke/magnetic switch type table

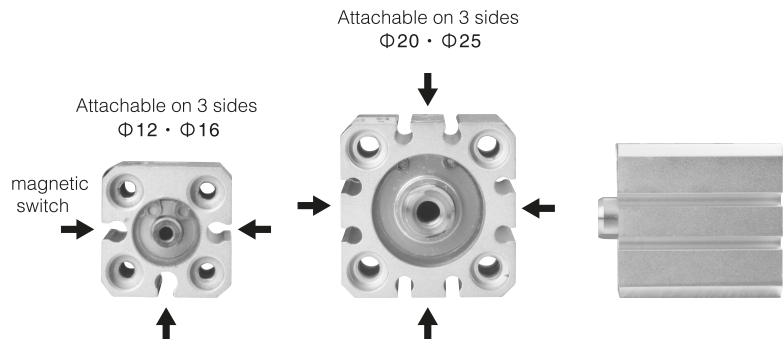
Bore size (mm)	Standard stroke (mm)		*Magnetic switch type (Track installation)
	Double action Note)	Single action	
12, 16	5, 10, 15, 20, 25, 30	5, 10	M9N M9B M9P
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50		

* The specifications and characteristics of magnetic switches can be referred to the series of magnetic switches. (Note: With long stroke)

* Wire length representation mark: Unmarked -0.5m, L-3m, Z-5m
Example: M9N, M9NL.

Save space

The miniature magnetic switch is installed in the cylinder groove and will not expose the outside of the cylinder block.



Position installation of magnetic switch can be selected from many sides
(Φ12 · Φ16: 3 sides, Φ20 · Φ25: 4 sides)

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

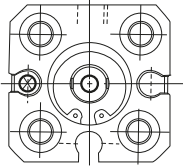
Cylinder

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

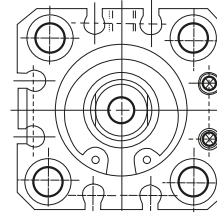
Dimensions

Through hole and screw hole sharing at both ends (Double action, Single action: Spring press back/Spring press out)

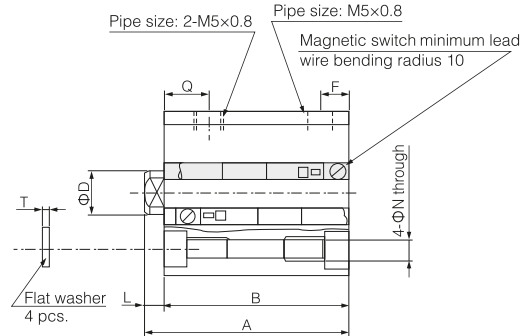
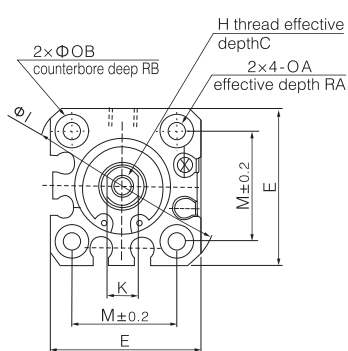
Φ12



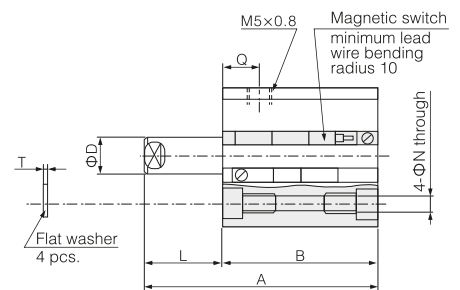
Φ20 - Φ25



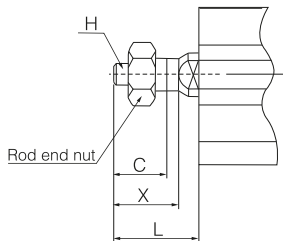
Φ16 Double action/Single action: Spring pressure back



Φ16 Single action(Spring press out)

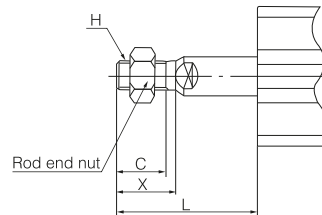


External threads at rod end (double action/single action: spring back)



Bore size (mm)	C	H	L	X
12	9	M5x0.8	14	10.5
16	10	M6x1.0	15.5	12
20	12	M8x1.25	18.5	14
25	15	M10x1.25	22.5	17.5

External threads at rod end (single action: spring extrusion)



Bore size (mm)	C	H	L		X
			5 ST	10 ST	
12	9	M5x0.8	19	24	10.5
16	10	M6x1.0	20.5	25.5	12
20	12	M8x1.25	23.5	28.5	14
25	15	M10x1.25	27.5	32.5	17.5

Dual-acting and single-acting shared size table

Bore size (mm)	Basic type													
	C	D	E	H	I	K	M	N	OA	OB	RA	RB	T	Q
12	6	6	25	M3x0.5	32	5	15.5	3.5	M4x0.7	6.5	7	4	0.5	7.5
16	8	8	29	M4x0.7	38	6	20	3.5	M4x0.7	6.5	7	4	0.5	7.5
20	7	10	36	M5x0.8	47	8	25.5	5.4	M6x1.0	9	10	7	1	9
25	12	12	40	M6x1.0	52	10	28	5.4	M6x1.0	9	10	7	1	11

Double action

ST=Stroke

Bore size (mm)	Stroke range (mm)	Basic type					Built-in magnetic ring	
		A	B	F	L	Q	A	B
12	5~30	20.5+st	17+st	5	3.5	7.5	25.5+st	22+st
16	5~30	20.5+st	17+st	5	3.5	7.5	25.5+st	22+st
20	5~50	24+st	19.5+st	5.5	4.5	9	34+st	29.5+st
25	5~50	27.5+st	22.5+st	5.5	5	11	37.5+st	32.5+st

Single action: spring press back

ST=Stroke

Bore size (mm)	Stroke range (mm)	Basic type						Built-in magnetic ring			
		A		B		F	L	A		B	
		5 ST	10 ST	5 ST	10 ST			5 ST	10 ST	5 ST	10 ST
12	5, 10	25.5	30.5	22	27	5	3.5	30.5	35.5	27	32
16		25.5	30.5	22	27	5	3.5	30.5	35.5	27	32
20		29	34	24.5	29.5	5.5	4.5	39	44	34.5	39.5
25		32.5	37.5	27.5	32.5	5.5	5	42.5	47.5	37.5	42.5

Single action: spring extrusion

ST=Stroke

Bore size (mm)	Stroke range (mm)	Basic type							Built-in magnetic ring			
		A		B		L		Q	A		B	
		5 ST	10 ST	5 ST	10 ST	5 ST	10 ST		5 ST	10 ST	5 ST	10 ST
12	5, 10	30.5	40.5	22	27	8.5	13.5	7.5	35.5	45.5	27	32
16		30.5	40.5	22	27	8.5	13.5	7.5	35.5	45.5	27	32
20		34	39	24.5	29.5	9.5	14.5	9	44	49	34.5	39.5
25		37.5	42.5	27.5	32.5	10	15	11	47.5	52.5	37.5	42.5