

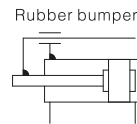


Specifications

Action mode		Double acting, Single rod
Maximum operating pressure		1.0 MPa
Minimum operating pressure	Φ12~Φ16	0.12 MPa
	Φ20~Φ100	0.1 MPa
Ambient and fluid temperature		Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)
Buffer		Rubber bumper on both ends
Stroke tolerance (mm)		+1.0 0
Use piston speed	Φ12~Φ40	50~500mm/s
	Φ50~Φ100	50~300mm/s

- * Installation dimensions are interchangeable with NCQS and NCQ2 series.
- * The accuracy of non-rotation is less than 0.2 degrees.
- * Do not use as a stop.

Symbol



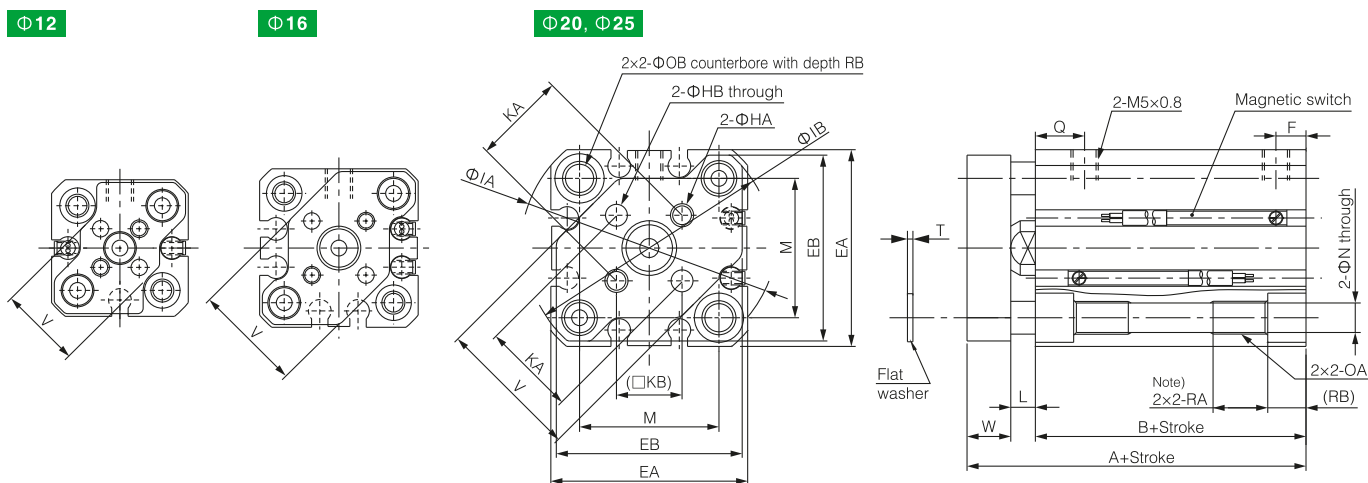
Ordering code

Built in magnetic ring		Bore size		Stroke		Magnetic switch type	
Blank	No built-in magnetic ring	12	12mm	40	40mm	Blank	Without magnetic switch
D	Built-in magnet ring	16	16mm	50	50mm	* Refer to the right table for the type of magnetic switch. * No built-in magnetic ring cylinder no such item	
Installation form		20	20mm	63	63mm		
		25	25mm	80	80mm		
		32	32mm	100	100mm		
Thread type		Note: Φ32 without magnetic switch, when the stroke is 5 mm, is M thread.		Number of magnetic switches		Blank	

Stroke/magnetic switch type table

Bore size (mm)	Standard stroke (mm)	*Magnetic switch type	
		Track installation	Direct installation
12, 16	5, 10, 15, 20, 25, 30	M9N M9B M9P	
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50		
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100		
50, 63, 80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100		

Dimensions



Bore size (mm)	Stroke range (mm)	Without auto switch		With auto switch		EA	EB	F	HA	OA	HB	IA	IB	KA	KB	L	M	N	OB	Q	RA	RB	T	V	W
		A	B	A	B																				
12	5~30	26.5	17	31.5	22	25	24	5	M3×0.5	M4×0.7	3	32	31.5	10	7.1	3.5	15.5	3.5	6.5	7.5	7	4	0.5	14.9	6
16	5~30	26.5	17	31.5	22	29	28	5	M3×0.5	M4×0.7	3	38	37	14	9.9	3.5	20	3.5	6.5	7.5	7	4	0.5	20	6
20	5~50	32	19.5	42	29.5	36	34	5.5	M4×0.7	M6×1.0	4	47	45.5	17	12	4.5	25.5	5.4	9	9	10	7	1	26	8
25	5~50	35.5	22.5	45.5	32.5	40	38	5.5	M5×0.8	M6×1.0	5	52	50.5	22	15.6	5	28	5.4	9	11	10	7	1	30	8

Note: Standard type without magnetic switch.
Φ12, Φ16: 5mm, Φ20: 5-15mm, Φ25: 5-10mm and magnetic switch ring built-in type are all through-hole threads.

Cylinder

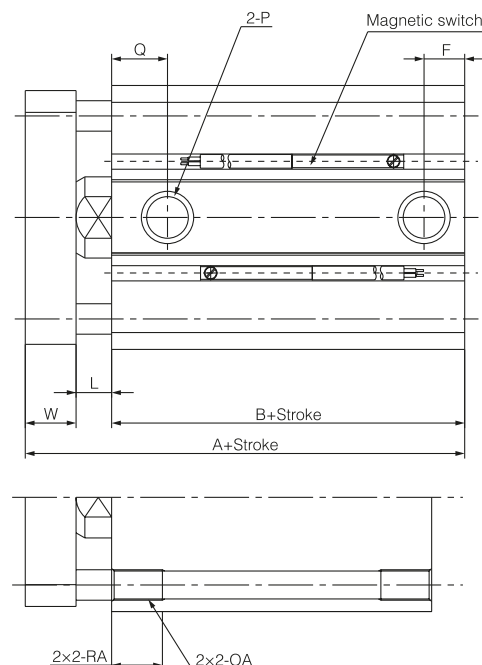
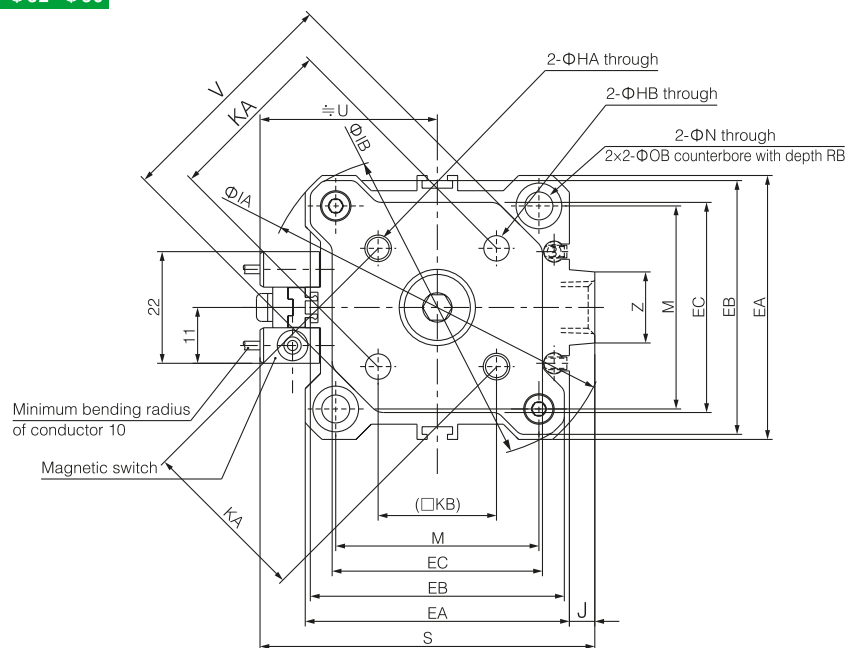
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS

NCQM

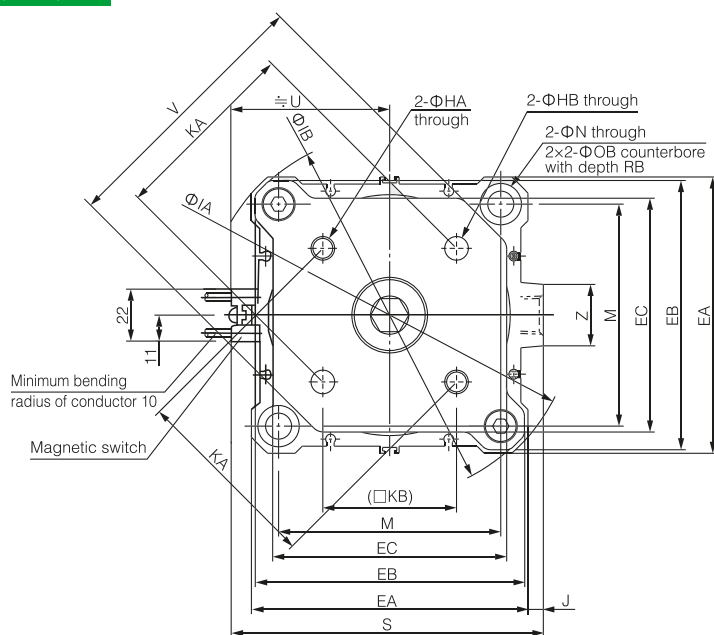
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder

Φ32~Φ50



Φ63~Φ100



Two end screw hole (NCQMA)

Bore size (mm)	HA	OA	HB	IA	IB	J	KA
32	M5×0.8	M6×1.0	5	60	58.5	4.5	28
40	M5×0.8	M6×1.0	5	69	67.5	5	33
50	M6×1.0	M8×1.25	6	86	84.5	7	42
63	M6×1.0	M10×1.5	6 ^{+0.2} ₀	103	100	7	50 ^{+0.2} ₀
80	M8×1.25	M12×1.75	8 ^{+0.2} ₀	132	129	6	65 ^{+0.2} ₀
100	M10×1.5	M12×1.75	10 ^{+0.2} ₀	156	153	6.5	80 ^{+0.2} ₀

Bore size (mm)	KB	L	M	N	OB	RA	RB	S	U	V	W	Z
32	19.8	7	34	5.5	9	10	7	58.5	31.5	38	10	14
40	23.3	7	40	5.5	9	10	7	66	35	46	10	14
50	29.7	8	50	6.6	11	14	8	80	41	58	12	19
63	35.4	8	60	9	14	18	10.5	93	47.5	69	12	19
80	46	10	77	11	17.5	22	13.5	112.5	57.5	89	14	26
100	56.6	10	94	11	17.5	22	13.5	132.5	67.5	113	16	26

Bore size (mm)	Stroke range (mm)	Without auto switch							With auto switch							EA	EB	EC
		A	B	F	Q	P			A	B	F	Q	P					
						—	TN	TF					—	TN	TF			
32	5	40	23	5.5	11.5	M5×0.8	—	—	50	33	7.5	10.5	Rc1/8	NPT1/8	G1/8	45	43	34.4
	10~50			7.5	10.5	Rc1/8	NPT1/8	G1/8										
	75・100	50	33															
40	5~50	46.5	29.5	8	11	Rc1/8	NPT1/8	G1/8	56.5	39.5	8	11	Rc1/8	NPT1/8	G1/8	52	50	41.4
	75・100	56.5	39.5															
50	10~50	50.5	30.5	10.5	10.5	Rc1/4	NPT1/4	G1/4	60.5	40.5	10.5	10.5	Rc1/4	NPT1/4	G1/4	64	62	53.4
	75・100	60.5	40.5															
63	10~50	56	36	10.5	15	Rc1/4	NPT1/4	G1/4	66	46	10.5	15	Rc1/4	NPT1/4	G1/4	77	74	59.6
	75・100	66	46															
80	10~50	67.5	43.5	12.5	16	Rc3/8	NPT3/8	G3/8	77.5	53.5	12.5	16	Rc3/8	NPT3/8	G3/8	98	95	79.5
	75・100	77.5	53.5															
100	10~50	79	53	13	23	Rc3/8	NPT3/8	G3/8	89	63	13	23	Rc3/8	NPT3/8	G3/8	117	114	99
	75・100	89	63															