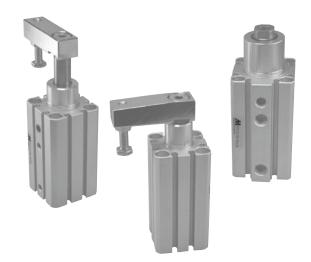
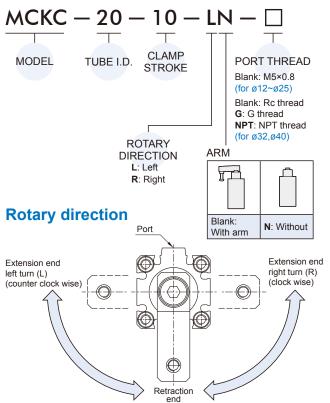
MCKC series

PNEUMATIC - SWING CLAMP CYLINDER





Order example



Clamping arm mounting methods





Features

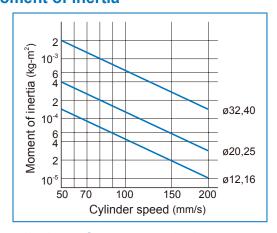
- Ultra compact, light weight and space saving cylinder.
- Ideal for use in machinery where space is limited and incorporating sensor groove which enables flush fitting of sensors.
- The sensor can freely mounted the four sides.
- Magnetic as standard.

Specification

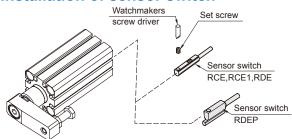
Model	MCKC							
Acting type		3						
Tube I.D. (mm)	12	16	20	25	32	40		
Port size		M5>	<0.8		Rc	1/8		
Rotary angle			90°±	±10°				
Rotary direction	Left (L), Right (R)							
Rotary stroke (mm)	7	.5	9	.5	15			
Clamp stroke (mm)	10, 20 10, 2				20, 30			
Medium			Α	ir				
Operating pressure range			0.1~0.	9 MPa				
Ambient temperature		-5°C~-	+60°C	(No fre	ezing)			
Available speed range		5	0~200	mm/se	ec			
Non-rotating accuracy (*1)	±2°	±1.3°	±1	.2°	±.	1°		
Lubrication	Not required							
Sensor switch (*2)	RDE RCE, RCE1, RDE							

- *1. Arm during clamping (Clamp part).
- *2. RCE, RCE1, RDE, RDEP specifications please refer to page

Moment of inertia



Installation of sensor switch

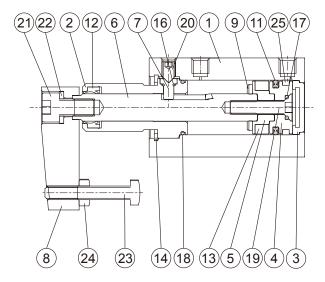




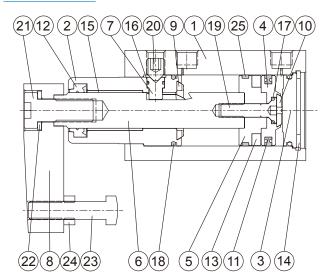
MCKC Inside structure & Parts list

PNEUMATIC - SWING CLAMP CYLINDER

ø12, ø16, ø40



ø20, ø25, ø32



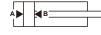
Material

No.	Part name	Material	Note
1	Body	Aluminum alloy	
2	Rod cover	Aluminum alloy	
3	End cover	Aluminum alloy	
4	Piston	Aluminum alloy	
5	Piston for magnet ring	Aluminum alloy	
6	Piston rod	SCM	
7	Guide pin	SCM	
8	Arm	Carbon steel	
9	Rod cushion	NBR	
10	End cushion	NBR	For ø20~ø40
11	Piston packing	NBR	
12	Rod packing	NBR	
13	Magnet ring	Magnet material	

No.	Part name	Material	Note
14	Snap ring	Stainless steel	*1
15	Bush	Copper	For ø32,ø40
16	O-ring	NBR	
17	O-ring	NBR	
18	O-ring	NBR	
19	Bolt	Stainless steel	
20	Set screw	SCM	
21	Bolt	SCM	
22	Spring washer	Spring steel	
23	Bolt	SCM	
24	Nut	Carbon steel	
25	Wear ring	Teflon	

^{*1.} Carbon steel (for ø12,ø16)

Theoretical force



Unit:

Unit										Unit: N			
Tube I.D.	Piston rod	Operating	Piston area		Operating pressure (MPa)								
(mm)	(mm)	direction	(mm ²)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
12	6	Α	113	11.3	22.6	33.9	45.2	56.5	67.8	79.1	90.4	101.7	
12	0	В	85	8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	76.5	
16	8	Α	201	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8	181.0	
10	10 8	В	151	15.1	30.2	45.2	60.3	75.4	90.5	105.6	120.6	135.7	
20	20 12	Α	314	31.4	62.8	94.2	125.7	157.1	188.5	219.9	251.3	282.7	
20	12	В	201	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8	181.0	
25	12	Α	491	49.1	98.2	147.3	196.4	245.4	294.5	343.6	392.7	441.8	
25	12	В	378	37.8	75.6	113.3	151.1	188.9	226.7	264.4	302.2	340.0	
32	16	Α	804	80.4	160.8	241.3	321.7	402.1	482.5	563.0	643.4	723.8	
52	10	В	603	60.3	120.6	181.0	241.3	301.6	361.9	422.2	482.5	542.9	
40	16	Α	1257	125.7	251.4	377.1	502.8	628.5	754.2	879.9	1005.6	1131.3	
40	10	В	1056	105.6	211.2	316.8	422.4	528.0	633.6	739.2	844.8	950.4	

Cylinder weight

Cyllin	uei wei	giit	Unit: g
Model	Basic weight MCKC	Basic weight MCKC-N	Stroke 10 mm MCKC
Tube I.D.			
ø12	66	52	16
ø16	100	66	23
ø20	266	176	38
ø25	319	229	46
ø32	573	382	69
ø40	652	461	74



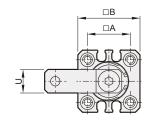
MCKC Dimensions ø12~ø40

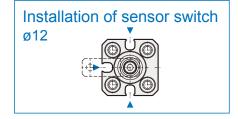


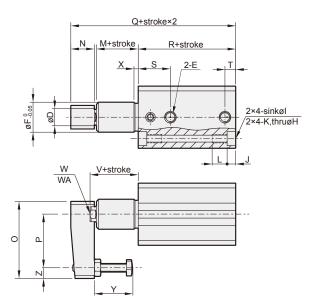
PNEUMATIC - SWING CLAMP CYLINDER

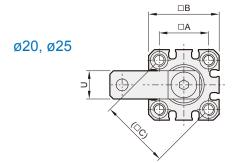


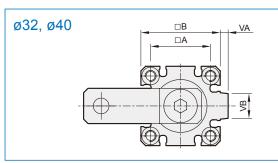


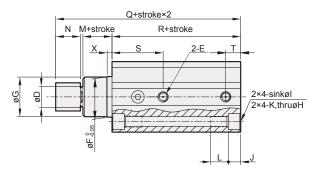


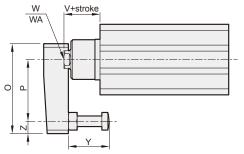












Code Tube I.D.\	Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N	0	Р	Q	R	S	Т	U
12	15.5	25	_	6	M5×0.8	11	_	3.5	6.5	4	M4×0.7	7	9.5	8	29	20	54	35.5	15	5	8
16	20	29	_	8	M5×0.8	14	_	3.5	6.5	4	M4×0.7	7	9.5	11	36	25	57	35.5	15	5	11
20	25.5	36	36	12	M5×0.8	18	17.9	5.4	9	7	M6×1.0	10	6.5	14	51	35	84	62	28	8.7	16
25	28	40	39.6	12	M5×0.8	23	22.5	5.4	9	7	M6×1.0	10	6.5	14	51	35	85	63	29	8.5	16
32	34	45	-	16	Rc1/8	30	29.5	5.5	9	7	M6×1.0	10	15.5	18	67	45	107	71.5	28	11	20
40	40	52	_	16	Rc1/8	30	29.5	5.5	9	7	M6×1.0	10	23	18	67	45	108	65	27	8	20

Code Tube I.D.	٧	VA	VB	W (ROD thread)	WA	Х	Υ	Z
12	12.5	-	-	M3×0.5×5.5L	Across flats 5×2.5L	2	7~18	4
16	12.5	1	_	M5×0.8×6.5L	Across flats 7×2.5L	2	7~20	5
20	10.5	_	_	M8×1.25×14L	Across flats 10×3L	3	12~25	7
25	10.5	-	-	M8×1.25×14L	Across flats 10×3L	3	12~25	7
32	22	4.5	14	M10×1.5×19L	Across flats 14×5.5L	3	12~25	10
40	29.5	5	14	M10×1.5×19L	Across flats 14×5.5L	3	12~25	10

