

MCKJQ Order example of accessories & Weight

COMPACT CYLINDER WITH NON-ROTATING ROD



Accessories

Accessories				
Code	LB ^{*1} (Purchase 2 pcs)	CB	FAC ^{*1}	FBC
Mounting Tube I.D.				
ø40	LB-J1-40	CB-J1-40	FAC-J1-40	

*1. Within the standard stroke, LB and FAC must be used with the L type
(as the piston rod needs to be extended by 10 mm).
See previous page for stroke range.

*2. The mounting accessories only for tube I.D. ø40.

*3. Refer to MCKJQ dimension.

Pin

Applicable	CB accessories
Code	PIN-CB-P (With snap ring)
Fig Tube I.D.	
ø40	PIN-J1-32-1-P

Order example of self-assembled

The tube I.D. ø40 of LB accessories with stroke 25mm.

No.	Order number	Qty
1	LB-J1-40	2
2	MCKJQ-12-40-25-L	1

* To order accessories/cylinder, please place orders separately
according to the order codes in the above table.
Please refer to the previous page for the cylinder ordering method.

Rod nut

Code	NUT
Fig Tube I.D.	
ø12	NUT-M5x0.8x4Hx8B
ø16	NUT-M6x1.0x5Hx10B
ø20	NUT-M8x1.25x5Hx13B
ø25	NUT-M10x1.25x6Hx17B
ø32	NUT-M14x1.5x8Hx22B
ø40	

Cylinder weight

Standard stroke

Model		Basic weight MCKJQ-11	Basic weight (magnet) MCKJQ-11	Stroke 5mm MCKJQ-11
Tube I.D.	Stroke range (mm)			
ø12	5~30	38	46	7
ø16		55	66	9
ø20		100	130	14
ø25	5~50	150	189	18
ø32		231	283	22
ø40		250	315	23

Basic weight MCKJQ-12	Basic weight (magnet) MCKJQ-12	Stroke 5mm MCKJQ-12
36	44	7
50	61	9
93	123	14
137	176	18
200	252	22
219	284	23

Unit: g

Long stroke

Model		Basic weight MCKJQ-11	Basic weight (magnet) MCKJQ-11	Stroke 5mm MCKJQ-11
Tube I.D.	Stroke range (mm)			
ø20	51 or more	308	312	14
ø25		398	407	16

Basic weight MCKJQ-12	Basic weight (magnet) MCKJQ-12	Stroke 5mm MCKJQ-12
301	305	14
390	399	16

Unit: g

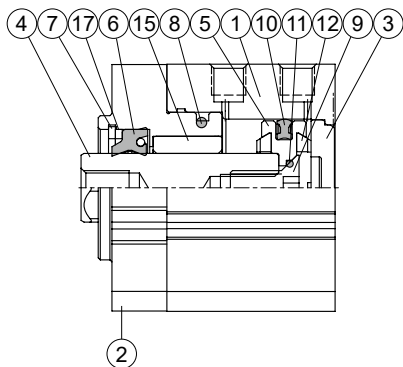
* The weight is based on 51 mm stroke.

MCKJQ Inside structure & Parts list – Standard stroke $\phi 12 \sim \phi 40$

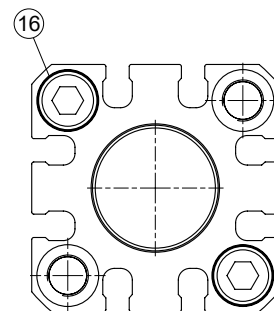
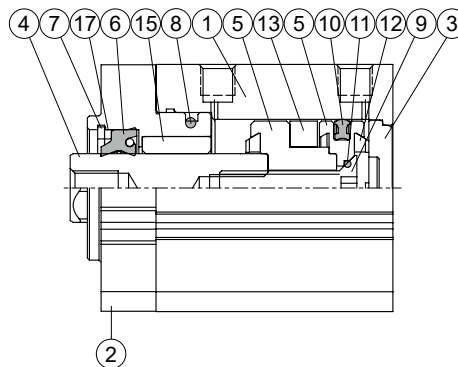
COMPACT CYLINDER WITH NON-ROTATING ROD



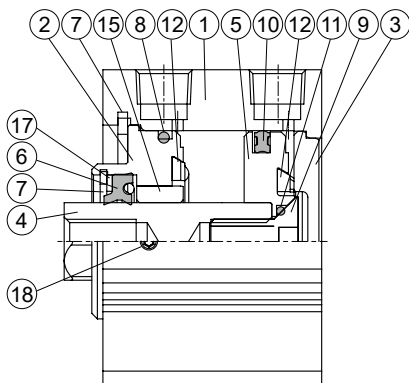
Standard stroke $\phi 12 \sim \phi 32$



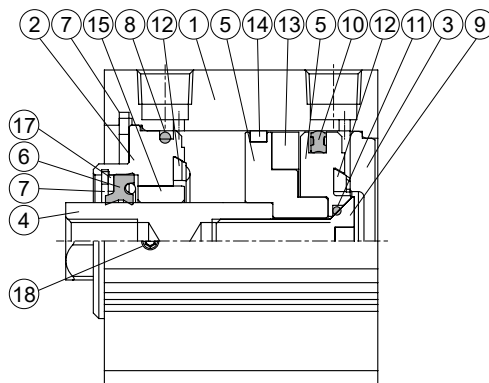
Standard stroke $\phi 12 \sim \phi 32$ (with magnet)



Standard stroke $\phi 40$



Standard stroke $\phi 40$ (with magnet)



Standard stroke – Material

No.	Tube I.D. Part name	12	16	20	25	32	40	Q'ty	Repair kits (inclusion)
1	Body	Aluminum alloy						1	
2	Rod cover	Aluminum alloy						1	
3	End cover	Aluminum alloy						1	
4	Piston rod	Stainless steel						1	
5	Piston	Aluminum alloy						1	
6	Rod packing	NBR						1	●
7	Snap ring	Spring steel						1	
8	Cover ring	NBR						1	●
9	Piston bolt	Stainless steel					SCM	1	
10	Piston packing	NBR						1	●
11	Piston gasket	NBR						1	●
12	Cushion packing	NBR						2	●
13	Magnet ring	Magnet						1	
14	Wear ring	–					Resin	1	
15	Bush	Bearing alloy						1	
16	Bolt	Carbon steel					–	2	
17	Washer	Carbon steel						1	
18	Set screw	–					*1	1	

*1. Alloy steel

Order example Repair kits

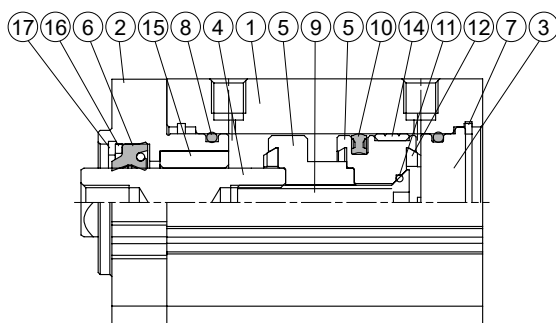
Tube I.D.	Repair kits
$\phi 12$	PS-MCKJQ-12
$\phi 16$	PS-MCKJQ-16
$\phi 20$	PS-MCKJQ-20
$\phi 25$	PS-MCKJQ-25
$\phi 32$	PS-MCKJQ-32
$\phi 40$	PS-MCKJQ-40

MCKJQ Inside structure & Parts list – Long stroke ø20, ø25

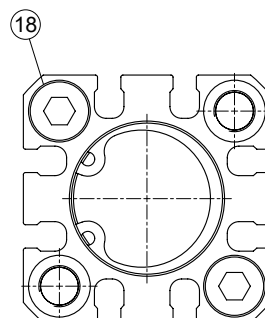
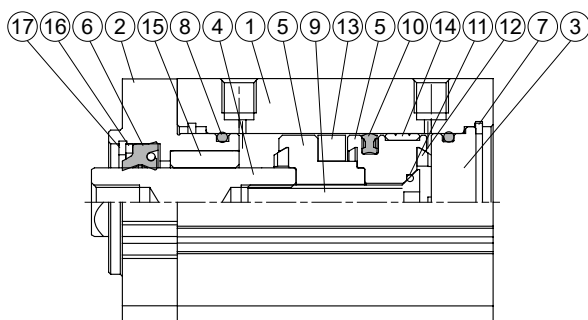
COMPACT CYLINDER WITH NON-ROTATING ROD



Long stroke ø20, ø25



Long stroke (with magnet) ø20, ø25



Long stroke – Material

No.	Tube I.D. Part name	Material	Q'ty	Component parts (inclusion)	Repair kits (inclusion)
1	Body	Aluminum alloy	1		
2	Rod cover	Aluminum alloy	1	●	
3	End cover	Aluminum alloy	1	●	
4	Piston rod	Stainless steel	1		
5	Piston	Aluminum alloy	1	●	
6	Rod packing	NBR	1	●	●
7	Snap ring	Stainless steel	1	●	
8	Cover ring	NBR	2	●	●
9	Piston bolt	Stainless steel	1	●	
10	Piston packing	NBR	1	●	●
11	Piston gasket	NBR	1	●	●
12	Cushion packing	NBR	2	●	●
13	Magnet ring	Magnet	1	●	
14	Wear ring	Resin	1	●	
15	Bush	Bearing alloy	1	●	
16	Washer	Carbon steel	1	●	
17	Snap ring	Spring steel	1	●	
18	Bolt	Carbon steel	2		

Order example Component parts

Tube I.D.	Component parts
ø20	CPL-MCKJQ-20(M)
ø25	CPL-MCKJQ-25(M)

M: With magnet

Repair kits

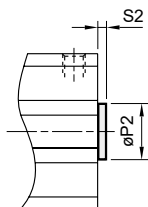
Tube I.D.	Repair kits
ø20	PSL-MCKJQ-20
ø25	PSL-MCKJQ-25

MCKJQ Type & Dimensions $\phi 12 \sim \phi 40$

COMPACT CYLINDER WITH NON-ROTATING ROD

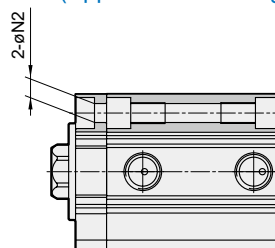


F Rear flange



Code Tube I.D.	P2 ^{h9}	S2
12	6	1.5
16	10	1.5
20	13	2
25	15	2
32	21	2
40	28	2

N2 Front mounting holes enlarged (Applicable mounting method [A](#))



Code Tube I.D.	N2
12	4.5
16	4.5
20	6.5
25	6.5
32	6.5

Plate mounting methods

! Caution

Different mounting methods match different bolts and plate. Please confirm the mounting method before purchase.

* The plates and bolts are prepared by the customers.

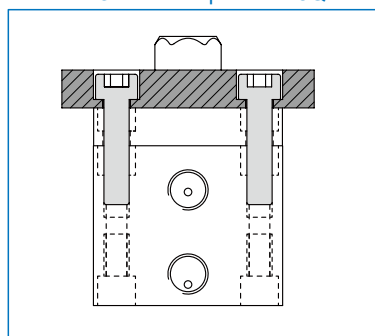
Bolt specification

Tube I.D. Mounting	$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
A, C	M4×0.7	M4×0.7	M6×1.0	M6×1.0	M6×1.0	M6×1.0
B, D	M3×0.5	M3×0.5	M5×0.8	M5×0.8	M5×0.8	M5×0.8

A

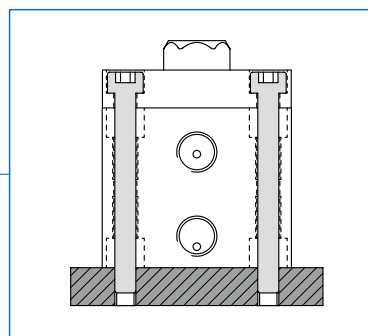
The plate is in front and the bolt is mounted from the front. For $\phi 12 \sim \phi 32$, when selecting mounting option A, the order code must be N2 type.

Order example: MCKJQ-12-20-25M-N2



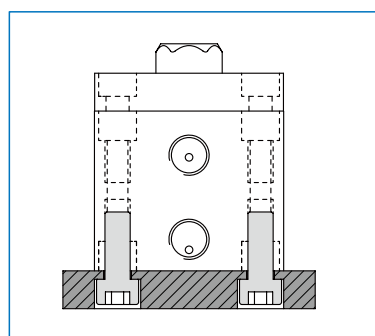
B

The plate is in back and the bolt is mounted from the front.



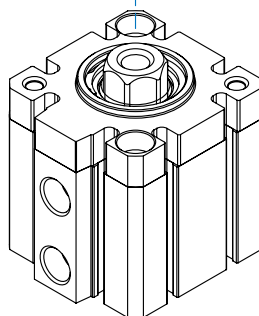
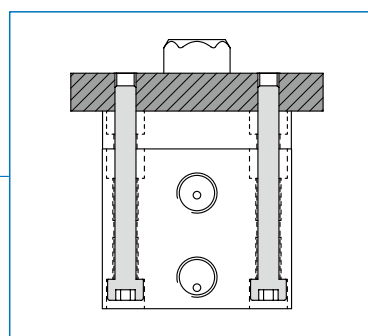
C

The plate is in back and the bolt is mounted from the back.



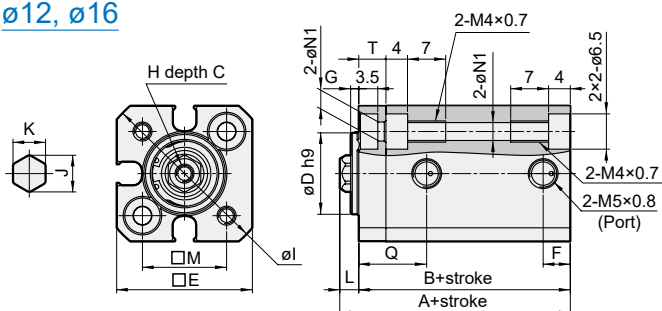
D

The plate is in front and the bolt is mounted from the back.

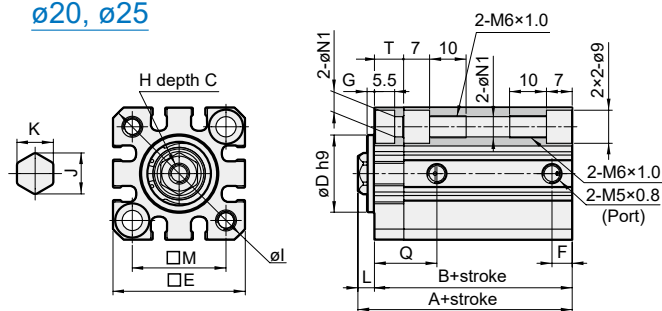


12

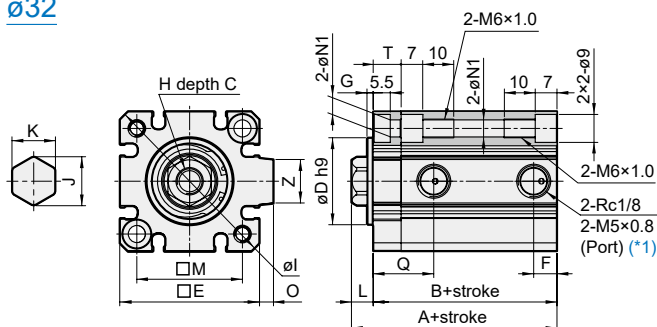
$\varnothing 12, \varnothing 16$



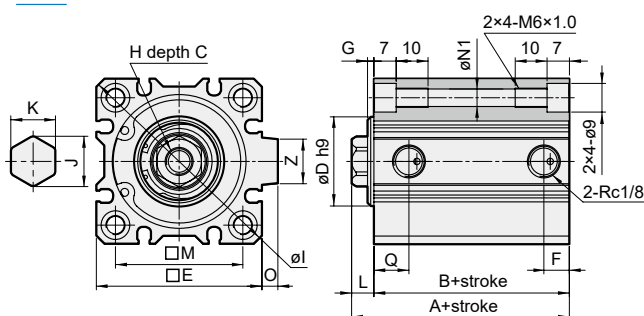
$\varnothing 20, \varnothing 25$



$\varnothing 32$



$\varnothing 40$

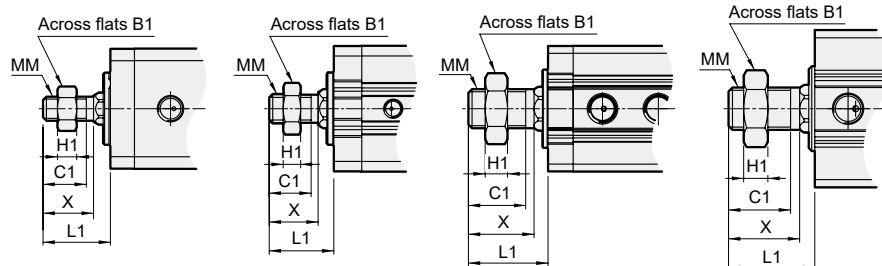


$\varnothing 12, \varnothing 16$

$\varnothing 20, \varnothing 25$

$\varnothing 32$

$\varnothing 40$



11 Male thread

Code Tube I.D.	B1	C1	H1	L1*	MM	X
12	8	9	4	14	M5×0.8	10.5
16	10	10	5	15.5	M6×1.0	12
20	13	12	5	18.5	M8×1.25	14
25	17	15	6	22.5	M10×1.25	17.5
32	22	20.5	8	28.5	M14×1.5	23.5
40	22	20.5	8	28.5 (38.5)	M14×1.5	23.5

* () Dimensions for piston rod extended "L" type.

Code Tube I.D.	Standard stroke							Long stroke																			
	Stroke range	Without magnet			Magnet			Stroke range	A	B	F	C	D	E	F	G	H	I	J	K	L*2	M	N1	O	Q	T	Z
		A	B	F	A	B	F																				
12	5~30	25.5	22	—	30.5	27	—	—	—	—	—	6	15 ⁰ _{-0.043}	25	5	1.5	M3×0.5	32	6.74	6	3.5	15.5	3.5	—	12.5	5	—
16	5~30	27	23.5	—	32	28.5	—	—	—	—	—	8	19 ⁰ _{-0.052}	29	5	1.5	M4×0.7	38	8.96	8	3.5	20	3.5	—	14	6.5	—
20	5~50	32	27.5	5.5	42	37.5	5.5	51~100	53.5	49	9	7	21 ⁰ _{-0.052}	36	—	2	M5×0.8	47	11.24	10	4.5	25.5	5.5	—	17	8	—
25	5~50	35.5	30.5	5.5	45.5	40.5	5.5	51~100	57	52	11	12	22 ⁰ _{-0.052}	40	—	2	M6×1.0	52	13.52	12	5	28	5.5	—	19	8	—
32	5~50	39	32	—	49	42	—	—	—	—	—	13	28 ⁰ _{-0.052}	45	7.5*1	2	M8×1.25	60	15.76	14	7	34	5.5	4.5	19.5*1	9	14
	51~100	49	42	—	49	42	—	—	—	—	—	13	28 ⁰ _{-0.052}	45	7.5*1	2	M8×1.25	60	15.76	14	7	34	5.5	4.5	19.5*1	9	14
40	5~50	36.5	29.5	—	46.5	39.5	—	—	—	—	—	13	28 ⁰ _{-0.052}	52	8	2	M8×1.25	70	15.76	14	7(17)	40	5.5	5	11	—	14
	51~100	46.5	39.5	—	46.5	39.5	—	—	—	—	—	13	28 ⁰ _{-0.052}	52	8	2	M8×1.25	70	15.76	14	7(17)	40	5.5	5	11	—	14

*1. Without magnet with stroke=5mm, Port size = M5×0.8, Q=20.5, F=5.5

*2. () Dimensions for piston rod extended "L" type.