

MCFB series

MULTI-MOUNT CYLINDER



Technical data



Caution for safety
(Read before installing)



Order example

MCFB — S — 11 — 16 — 10M

MODEL

1: Single rod

TUBE I.D.

STROKE

M: Magnet

Blank: Both mounting
S: Axial mounting
(Only for ø12,16,20)

STYLE (*)

* STYLE

Code	Symbol	Description
1 1		Double acting / Male thread
1 2		Double acting / Female thread
1 5		Single acting / Normally returned male thread
1 6		Single acting / Normally returned female thread

* Single acting only for ø6,ø8,ø10.

* Single acting without magnet type.

Features

- Compact and space saving.
- Flush fitting sensor.

Specification

Model	MCFB					
Acting type	Single / Double			Double acting		
Tube I.D. (mm)	6	8	10	12	16	20
Port size	M3×0.5					M5×0.8
Medium	Air					
Max. operating pressure	0.7 MPa					
Min. operating pressure (MPa)	Single	0.3	0.2	—		
	Double	0.15	0.1	0.07	0.05	
Proof pressure	1 MPa					
Lubrication	Not required					
Ambient temperature	-5~+60°C (No freezing)					
Available speed range	50~500 mm/sec					
Sensor switch (*)	RDC(V), RQC(V) , RDFE(V) , RDGV					

* Short stroke length (4, 6, 8mm) only use RDGV.

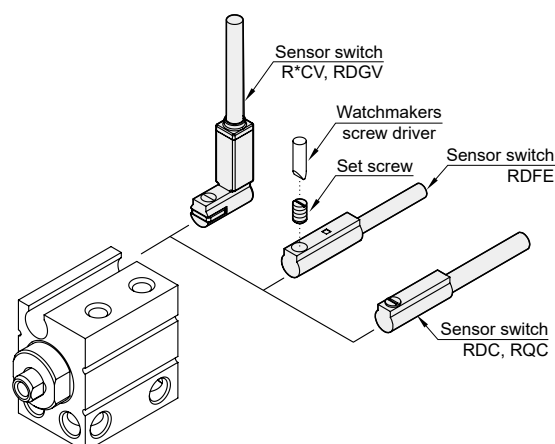
Double acting – Table for standard stroke

Tube I.D.	Stroke (mm)
ø6,8	4,6,8,10,15,20,25
ø10	4,6,8,10,15,20,30
ø12,16	5,10,15,20,25,30
ø20	5,10,15,20,25,30,35,40,45,50

Single acting – Table for standard stroke

Tube I.D.	Stroke (mm)
ø6	4,6,8
ø8,10	4,6,8,10

Installation of sensor switch



MCFB Inside structure & Parts list

MULTI-MOUNT CYLINDER

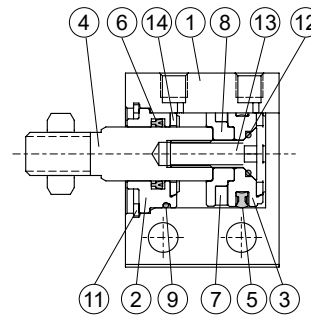
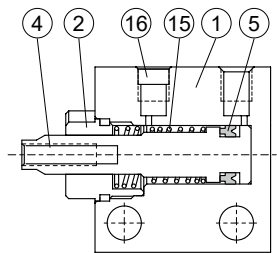
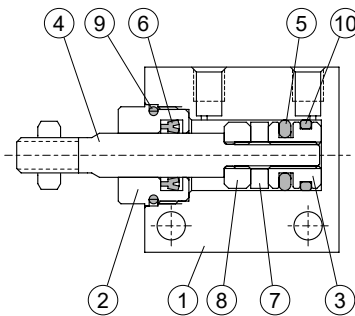


ø6, ø8, ø10

ø12, ø16, ø20

Double acting

Single acting



Material

No.	Part name	Material	Note	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Body	Aluminum alloy		1		
2	Rod cover	Copper	ø12~20 use aluminum alloy	1	●	
3	Piston	Aluminum alloy		1	●	
4	Piston rod	Stainless steel		1		
5	Piston packing	NBR		1	●	●
6	Rod packing	NBR		1	●	●
7	Magnet ring	Magnet material	for with magnet	1	●	
8	Piston	Aluminum alloy	for with magnet	1	●	
9	Cover ring	NBR		1	●	●
10	Wear ring	Resin		1	●	
11	Snap ring	Spring steel		1	●	
12	Piston gasket	NBR	Only for ø20	1	●	●
13	Piston bolt	Stainless steel	Only for ø20	1	●	
14	Cushion packing	PU		2	●	●
15	Spring	Stainless steel		1	●	
16	Silencer	Brass		1	●	

Order example Component parts

Tube I.D.	Component parts
ø6	CP-MCFB-6(M)
ø8	CP-MCFB-8(M)
ø10	CP-MCFB-10(M)
ø12	CP-MCFB-12(M)
ø16	CP-MCFB-16(M)
ø20	CP-MCFB-20(M)

* M: With magnet.

Repair kits

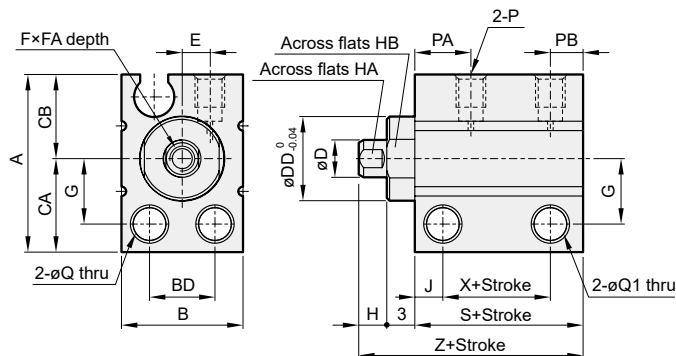
Tube I.D.	Repair kits
ø6	PS-MCFB-6
ø8	PS-MCFB-8
ø10	PS-MCFB-10
ø12	PS-MCFB-12
ø16	PS-MCFB-16
ø20	PS-MCFB-20

Seal kit

Acting type	Rod packing		Piston packing		Cover ring		Piston gasket	
	Double acting	Normally retruned	Double acting	Single acting	Double acting	Normally retruned	Double acting	Normally retruned
Tube I.D. / Q'y	1	0	1	1	1	0	1	0
ø6	KSYR-4	—	PP-6	KSYP-6	d7×w1	—	—	—
ø8	KSYR-5	—	PP-8	KSYP-8	d9×w1	—	—	—
ø10	KSYR-6	—	OPA-10	KSYP-10	d10×w1	—	—	—
ø12	KSYR-6	—	OPA-12	—	d10×w1	—	—	—
ø16	KSYR-8	—	OPA-16	—	d14×w1	—	—	—
ø20	KSYR-10	—	OPA-20	—	d18×w1	—	d6×w1	—

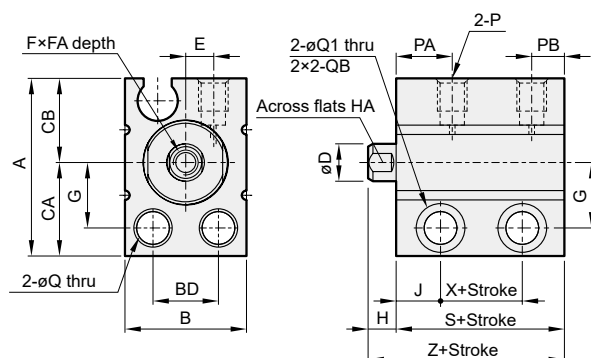
12 16

$\phi 6, \phi 8, \phi 10$



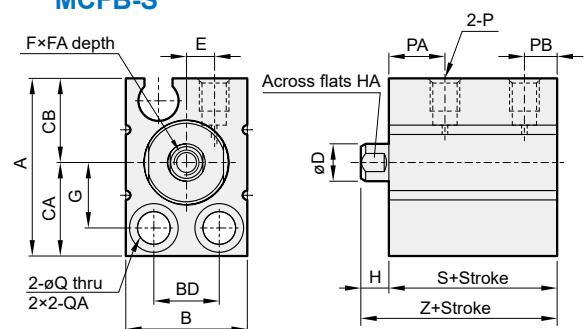
$\phi 12, \phi 16, \phi 20$

Both mounting

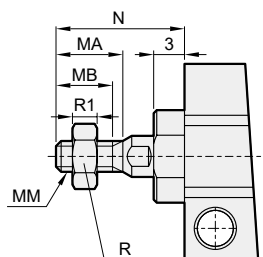


Axial mounting

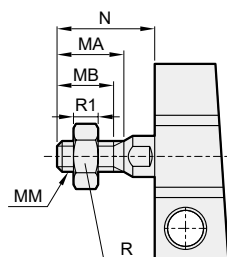
MCFB-S



$\phi 6, \phi 8, \phi 10$



$\phi 12, \phi 16, \phi 20$



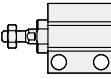
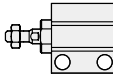
11 15 Male thread

Code Tube I.D.	MA	MB	MM	N	R	R1
6	6.5	5.5	M3×0.5	12.5	5.5	2.4
8	8.5	7	M4×0.7	14.5	7	3.2
10	10.5	9	M5×0.8	16.5	8	4
12	10.5	9	M5×0.8	14	8	4
16	12	10	M6×1.0	15.5	10	5
20	14	12	M8×1.25	18.5	13	5

Code Tube I.D.	A	B	BD	CA	CB	D	DD	E	F	FA	G	H	HA	HB	J	P	PA	PB	Q	Q1	QA	QB	Without magnet			Magnet		
																							X	S	Z	X	S	Z
6	19	13	7	10	9	4	9	3	M2.5×0.45	5	7	3	3.5	8	3	M3×0.5	6	3.5	3.5	3.2	—	—	6.5	13	19	11.5	18	24
8	21	13	7	11	10	5	11	3	M3×0.5	6	8	3	4.5	10	3	M3×0.5	6	3.5	3.5	3.2	—	—						
10	22	13.5	7	11.5	10.5	6	12	3.2	M3×0.5	6	8.5	3	5	11	3	M3×0.5	6	3.5	3.5	3.2	—	—						
12	26.5	17	8	15.5	11	6	—	3.5	M3×0.5	6	11	3.5	5	—	6	M3×0.5	7.5	4	4.4	4.4	ø7.5×5.5dp	ø7.5×7dp	3.5	15.5	19	7.5	19.5	23
16	29.5	21	11.5	17	12.5	8	—	5.5	M4×0.7	8	12.5	3.5	6	—	6	M3×0.5	8.5	4	4.4	4.4	ø7.5×5.5dp	ø7.5×7dp	4	16.5	20	8.5	21	24.5
20	36	25	13.5	21	15	10	—	7	M5×0.8	7	15.5	4.5	8	—	7	M5×0.8	9	5.5	5.5	5.2	ø9.3×6.5dp	ø9.3×9dp	5.5	19.5	24	9.5	23.5	28

Cylinder weight

Unit: g

Model	MCFB-11								MCFB-11 (With magnet)							
																
Tube I.D.	Stroke (mm)								Stroke (mm)							
	4	6	8	10	15	20	25	30	4	6	8	10	15	20	25	30
$\varnothing 6$	15	16	18	19	22	25	28	—	16	17	18	19	22	25	28	—
$\varnothing 8$	19	20	22	23	26	29	33	—	20	21	23	24	27	31	34	—
$\varnothing 10$	21	22	24	25	29	32	36	39	23	24	26	27	31	34	38	41
Tube I.D.	Stroke (mm)								Stroke (mm)							
	5	10	15	20	25	30	40	50	5	10	15	20	25	30	40	50
$\varnothing 12$	24	29	34	39	44	49	—	—	27	32	37	42	47	52	—	—
$\varnothing 16$	38	45	52	59	66	73	—	—	42	49	56	63	70	77	—	—
$\varnothing 20$	63	73	83	93	103	113	133	153	68	78	88	98	108	118	138	158

Model	MCFB-12								MCFB-12 (With magnet)							
																
Tube I.D.	Stroke (mm)								Stroke (mm)							
	4	6	8	10	15	20	25	30	4	6	8	10	15	20	25	30
$\varnothing 6$	14	15	16	18	21	24	27	—	15	16	17	18	21	24	27	—
$\varnothing 8$	17	18	19	21	24	27	30	—	18	19	20	22	25	28	31	—
$\varnothing 10$	18	19	21	22	26	29	33	36	20	21	23	24	28	31	35	38
Tube I.D.	Stroke (mm)								Stroke (mm)							
	5	10	15	20	25	30	40	50	5	10	15	20	25	30	40	50
$\varnothing 12$	21	26	31	36	41	46	—	—	24	29	34	39	44	49	—	—
$\varnothing 16$	31	38	45	52	59	66	—	—	35	42	49	56	63	70	—	—
$\varnothing 20$	52	62	72	82	92	102	122	142	57	67	77	87	97	107	127	147