MCFB series

MULTI-MOUNT CYLINDER

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 perssure		0.7 MPa					
Min. operating perssure (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 (*)		RDFE(V), RDGV					

* Short stroke length (4, 6, 8mm) only use RDGV.
* RDFE(V), RDGV specification, please refer to page 8-15, 16.

Order example

MCFB — S — 11 — 16 — 10M

- MODEL
- **S**: Axial mounting (Only for ø12,16,20) / Blank: Both mounting
- **1**: Single rod
- STYLE (*)
- TUBE I.D.
- STROKE
- **M**: Magnet

* 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.

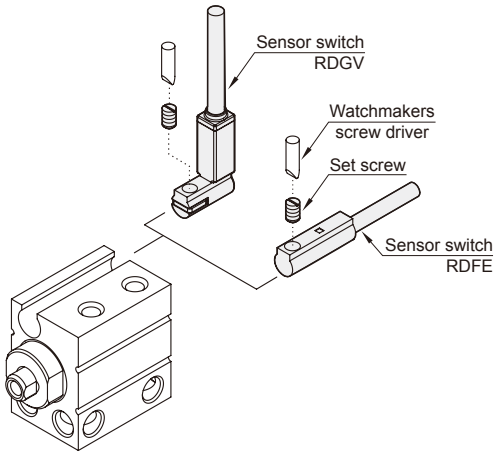
Double acting – Table for standard stroke

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

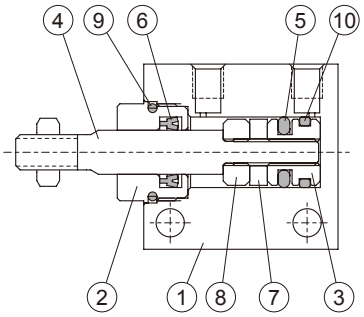


MCFB Inside structure & Parts list

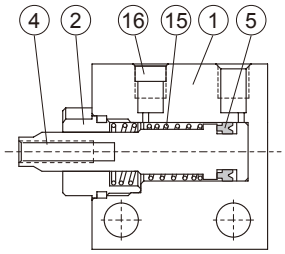
MULTI-MOUNT CYLINDER

ø6, ø8, ø10

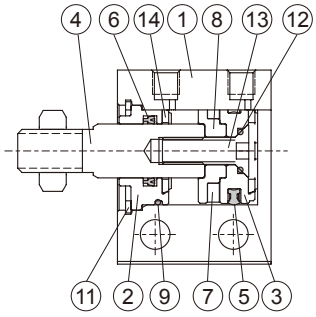
Double acting



Single acting



ø12, ø16, ø20



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.

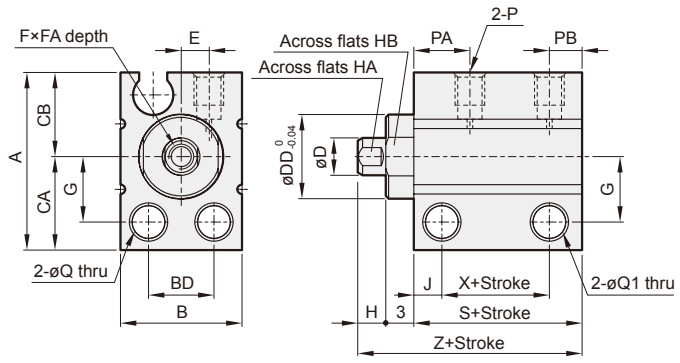
Repair kits

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

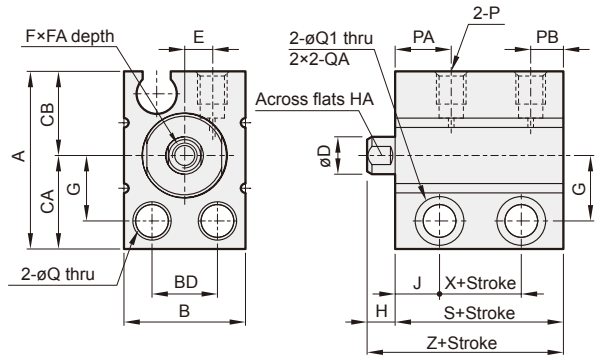
	Rod packing		Piston packing		Cover ring		Piston gasket	
Acting type	Double acting	Normally retruned	Double acting	Single acting	Double acting	Normally retruned	Double acting	Normally retruned
Tube I.D. / Q'y	1	0	1	1	1	0	1	0
ø6	KSYR-4	—	PP-6	KSYP-6	d7×w1	—	—	—
ø8	KSYR-5	—	PP-8	KSYP-8	d9×w1	—	—	—
ø10	KSYR-6	—	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	—

ø6, ø8, ø10



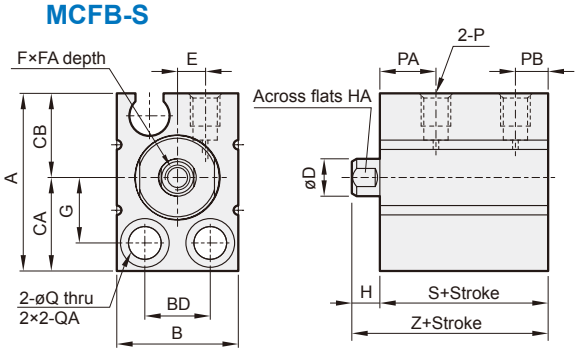
ø12, ø16, ø20

Both mounting

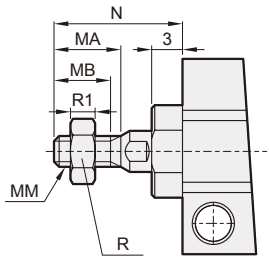


Axial mounting

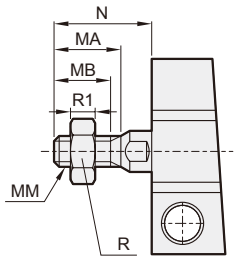
MCFB-S



ø6, ø8, ø10



ø12, ø16, ø20



MCFB-11/15 male thread size

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	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, 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, 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	ø9.5, 9dp	5.5	19.5	24	9.5	23.5	28

Cylinder weight

Unit: g

11: Male thread (With magnet)								**11**: Male thread (Without magnet)							
Stroke (mm)	ø6	ø8	ø10	Stroke (mm)	ø12	ø16	ø20	Stroke (mm)	ø6	ø8	ø10	Stroke (mm)	ø12	ø16	ø20
4	16	20	23	5	27	42	68	4	15	19	21	5	24	38	63
6	17	21	24	10	32	49	78	6	16	20	22	10	29	45	73
8	18	23	26	15	37	56	88	8	18	22	24	15	34	52	83
10	19	24	27	20	42	63	98	10	19	23	25	20	39	59	93
15	22	27	31	25	47	70	108	15	22	26	29	25	44	66	103
20	25	31	34	30	52	77	118	20	25	29	32	30	49	73	113
25	28	34	38	40	–	–	138	25	28	33	36	40	–	–	133
30	–	–	41	50	–	–	158	30	–	–	39	50	–	–	153

12: Male thread (With magnet)								**12**: Male thread (Without magnet)							
Stroke (mm)	ø6	ø8	ø10	Stroke (mm)	ø12	ø16	ø20	Stroke (mm)	ø6	ø8	ø10	Stroke (mm)	ø12	ø16	ø20
4	15	18	20	5	24	35	57	4	14	17	18	5	21	31	52
6	16	19	21	10	29	42	67	6	15	18	19	10	26	38	62
8	17	20	23	15	34	49	77	8	16	19	21	15	31	45	72
10	18	22	24	20	39	56	87	10	18	21	22	20	36	52	82
15	21	25	28	25	44	63	97	15	21	24	26	25	41	59	92
20	24	28	31	30	49	70	107	20	24	27	29	30	46	66	102
25	27	31	35	40	–	–	127	25	27	30	33	40	–	–	122
30	–	–	38	50	–	–	147	30	–	–	36	50	–	–	142