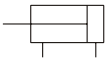
MCFA series

ARBITRARY MOUNT CYLINDERS





Features:

- Space saving.

Specification:

Model		MCFA		
Acting type		Double acting		
Tube I.D. (mm)		6	10, 16	20, 25, 32
Port size	ϕ6~ϕ25	M5×0.8		
	ϕ32	PT 1/8		
Medium		Air		
Max. operating pressure		7 kgf/cm^2		
Min. operating pressure		1.2 kgf/cm^2	0.6 kgf/cm^2	0.5 kgf/cm^2
Proof pressure		10 kgf/cm^2		
Ambient temperature		−5~+60℃ (No freezing)		
Lubrication		Not required		
Available speed range		50~500 mm/sec		
Cushion		With rubber cushion pad		
Sensor switch		RCE, RCE1		

Order example:

MCFA − 11 − 6 − 10(M) − K

- MCFA — MODEL
- 11 — STYLE
  - **1**: Single Rod
  - **2**: Double Rod
- 6 — TUBE I.D.
- 10 — STROKE
- (M) — **M**: Magnet
- K — NON-ROTATING ROD

STYLE

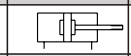
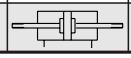
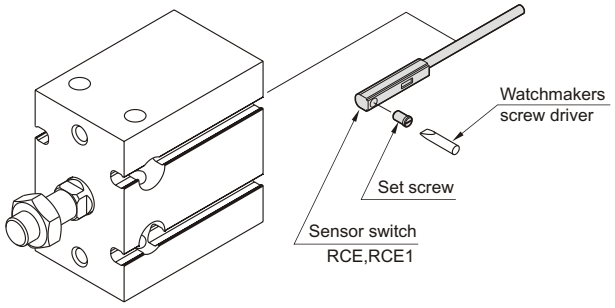
Code		Symbol	Description
1	1		Double action / Male thread
2	1		Dual rod / Male thread

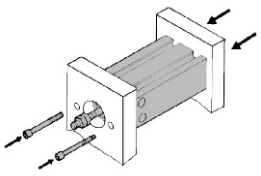
Table for standard stroke:

Tube I.D.	Stroke (mm)
ϕ6,10,16	5, 10, 15, 20, 25, 30
ϕ20,25,32	5, 10, 15, 20, 25, 30, 40, 50

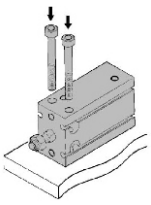
Installation of sensor switch:



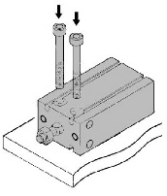
Mounting:



Axial mounting



Vertical mounting



Lateral mounting

※ Set screws for magnet type recommend to use stainless steel.

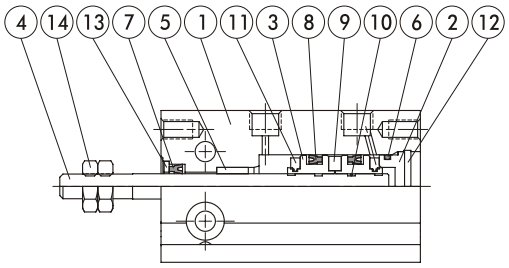
MCFA Inside structure & Parts list

ARBITRARY MOUNT CYLINDERS

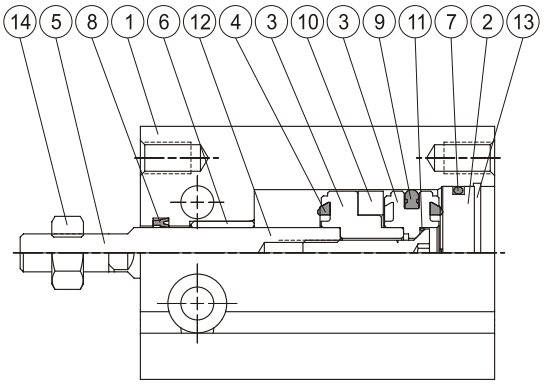
Mindman

Double acting

ϕ6~ϕ10



ϕ16~ϕ32

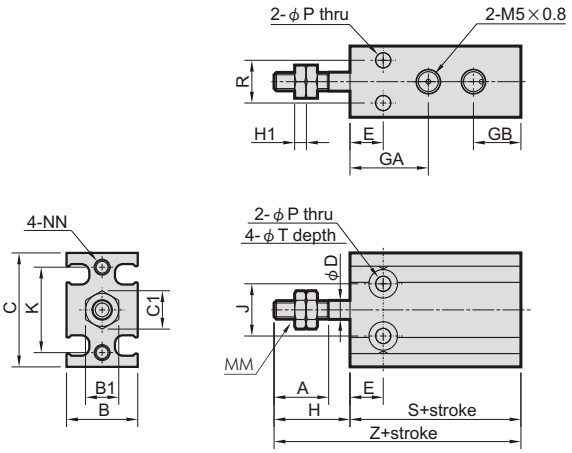


Material

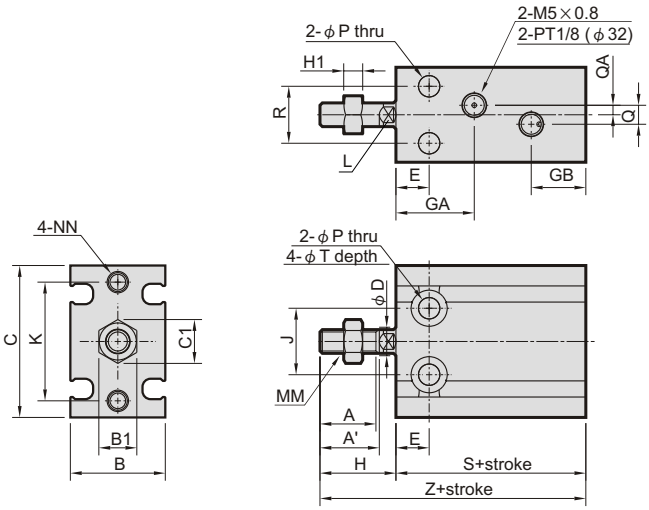
No.	Part name \ Tube I.D.	6	10	Note
1	Body	Aluminum alloy		
2	Head cover	Aluminum alloy		
3	Piston	Copper		
4	Rod	Stainless steel		
5	Rod bush	Copper		
6	Cover ring	NBR		
7	Rod packing	NBR		
8	Piston packing	NBR		
9	Magnet ring	Magnet material		for with magnet
10	Pistion gasket	NBR		
11	Cushion packing	PU		
12	Snap ring	Carbon steel		
13	Fixed ring	Aluminum alloy		
14	Rod front nut	Rolled steel		

No.	Part name \ Tube I.D.	16	20	25	32	Note
1	Body	Aluminum alloy				
2	Head cover	Aluminum alloy				
3	Piston	Aluminum alloy				
4	Cushion packing	NBR				
5	Rod	Stainless steel			Carbon steel	
6	Rod bush	Copper				
7	Cover ring	NBR				
8	Rod packing	NBR				
9	Piston packing	NBR				
10	Magnet ring	Magnet material				for with magnet
11	Piston gasket	NBR				
12	Piston bolt	SCM				for without magnet
		Stainless steel				for with magnet
13	Snap ring	Carbon steel				
14	Rod front nut	Rolled steel				

ϕ6, ϕ10



ϕ16~ϕ32



Code / Tube I.D.	A	A'	B	B1	C	C1	D	E	GA	GB	H	H1	J	K	L	MM	NN	P	Q	QA	R
6	7	-	13	5.5	22	6.4	3	7	15	10	13	1.8	10	17	-	M3×0.5	M3×0.5×5depth	3.2	-	-	7
10	10	-	15	7	24	8.1	4	7	16.5	10	16	2.4	11	18	-	M4×0.7	M3×0.5×5depth	3.2	-	-	9
16	11	12.5	20	8	32	9.2	6	7	※16.5	11.5	16	4	14	25	5	M5×0.8	M4×0.7×6depth	4.5	4	2	12
20	12	14	26	10	40	11.5	8	9	19	12.5	19	5	16	30	6	M6×1.0	M5×0.8×8depth	5.5	9	4.5	16
25	15.5	18	32	13	50	15.0	10	10	21.5	13	23	5	20	38	8	M8×1.25	M5×0.8×8depth	5.5	9	4.5	20
32	19.5	22	40	17	62	19.6	12	11	23	12.5	27	6	24	48	10	M10×1.25	M6×1.0×9depth	6.6	13.5	4.5	24

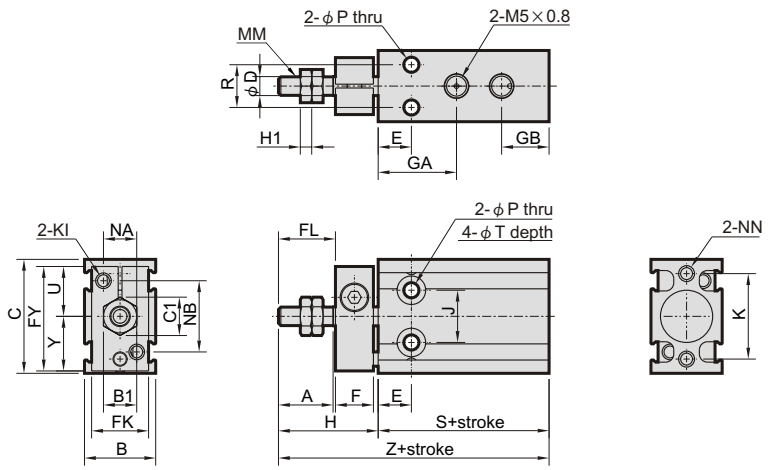
※ without magnt with stroke=5mm, GA=14.5mm.

Code / Tube I.D.	T	without magnet		magnet	
		S	Z	S	Z
6	6×4.8depth	33	46	33	46
10	6×5depth	36	52	36	52
16	7.6×6.5depth	30	46	40	56
20	9.3×8depth	36	55	46	65
25	9.3×9depth	40	63	50	73
32	11×11.5depth	42	69	52	79

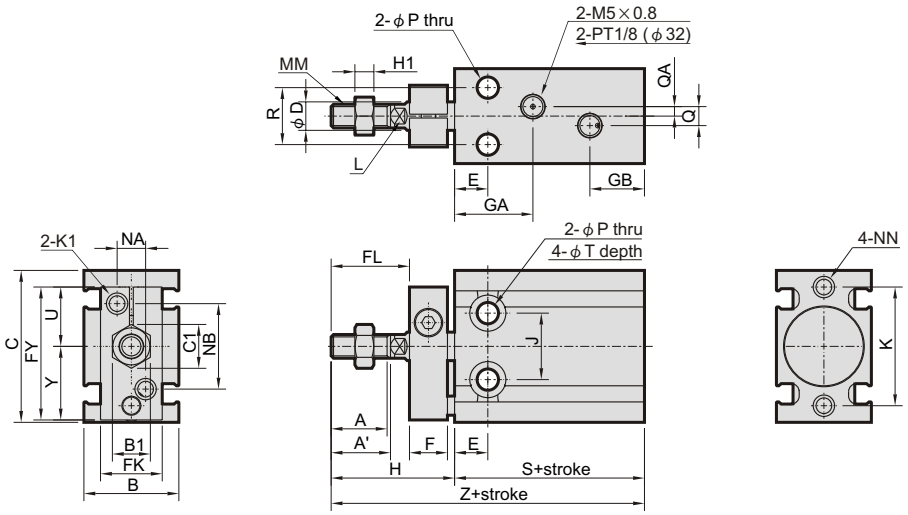
MCFA Non-rotating rod / Single rod ϕ6~ϕ32

ARBITRARY MOUNT CYLINDERS

ϕ6, ϕ10



ϕ16~ϕ32



Code / Tube I.D.	A	A'	B	B1	C	C1	D	E	F	FL	FK	FY	GA	GB	H	H1	J	K	KI	L	MM	NA	NB
6	7	-	13	5.5	22	6.4	3	7	8	9	11	20.5	15	10	18	1.8	10	17	M3×0.5	-	M3×0.5	6	14
10	10	-	15	7	24	8.1	4	7	8	12	12	22	16.5	10	21	2.4	11	18	M3×0.5	-	M4×0.7	7	15
16	11	12.5	20	8	32	9.2	6	7	8	17	13	28	※16.5	11.5	26	4	14	25	M4×0.7	5	M5×0.8	6	18
20	12	14	26	10	40	11.5	8	9	8	20	16	33	19	12.5	29	5	16	30	M4×0.7	6	M6×1.0	8	20
25	15.5	18	32	13	50	15.0	10	10	10	22	20	43.5	21.5	13	33	5	20	38	M5×0.8	8	M8×1.25	10	28
32	19.5	22	40	17	62	19.6	12	11	12	29	24	51.5	23	12.5	42	6	24	48	M5×0.8	10	M10×1.25	12	32

※ without magnt with stroke=5mm, GA=14.5mm.

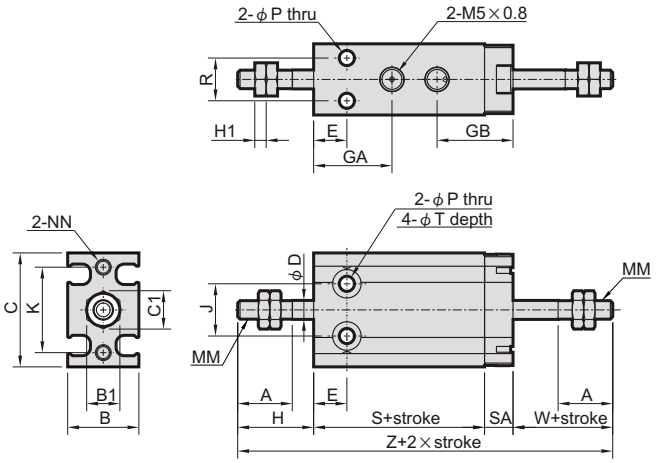
Code / Tube I.D.	NN	P	Q	QA	R	T	U	Y	without magnet		magnet	
									S	Z	S	Z
6	M3×0.5×5depth	3.2	-	-	7	6×4.8depth	10	10.5	33	51	33	51
10	M3×0.5×5depth	3.2	-	-	9	6×5depth	10.5	11.5	36	57	36	57
16	M4×0.7×6depth	4.5	4	2	12	7.6×6.5depth	12.5	15.5	30	56	40	66
20	M5×0.8×8depth	5.5	9	4.5	16	9.3×8depth	13.5	19.5	36	65	46	75
25	M5×0.8×8depth	5.5	9	4.5	20	9.3×9depth	19	24.5	40	73	50	83
32	M6×1.0×9depth	6.6	13.5	4.5	24	11×11.5depth	21	30.5	42	84	52	94

MCFA Double rod ϕ6~ϕ32

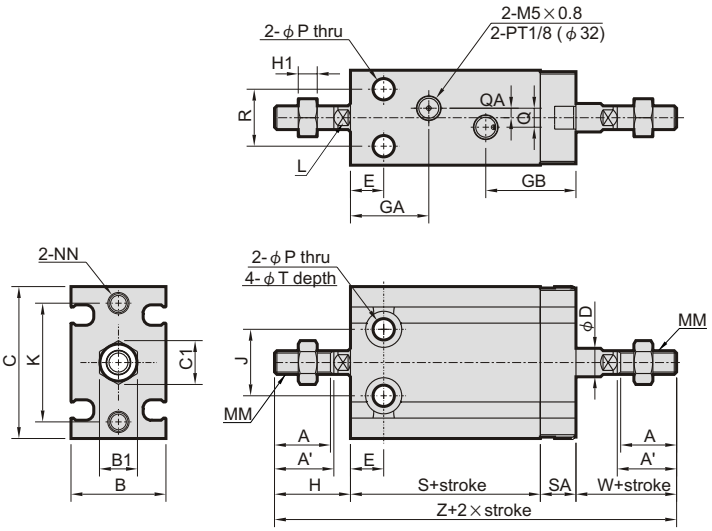
ARBITRARY MOUNT CYLINDERS

Mindman

ϕ6, ϕ10



ϕ16~ϕ32



Code / Tube I.D.	A	A'	B	B1	C	C1	D	E	GA	GB	H	H1	J	K	L	MM	NN	P	Q	QA	R	SA
6	7	-	13	5.5	22	6.4	3	7	15	16	13	1.8	10	17	-	M3×0.5	M3×0.5×5depth	3.2	-	-	7	6
10	10	-	15	7	24	8.1	4	7	16.5	16	16	2.4	11	18	-	M4×0.7	M3×0.5×5depth	3.2	-	-	9	6
16	11	12.5	20	8	32	9.2	6	7	※16.5	19	16	4	14	25	5	M5×0.8	M4×0.7×6depth	4.5	4	2	12	7.5
20	12	14	26	10	40	11.5	8	9	19	21.5	19	5	16	30	6	M6×1.0	M5×0.8×8depth	5.5	9	4.5	16	9
25	15.5	18	32	13	50	15.0	10	10	21.5	22	23	5	20	38	8	M8×1.25	M5×0.8×8depth	5.5	9	4.5	20	9
32	19.5	22	40	17	62	19.6	12	11	23	22.5	27	6	24	48	10	M10×1.25	M6×1.0×9depth	6.6	13.5	4.5	24	10

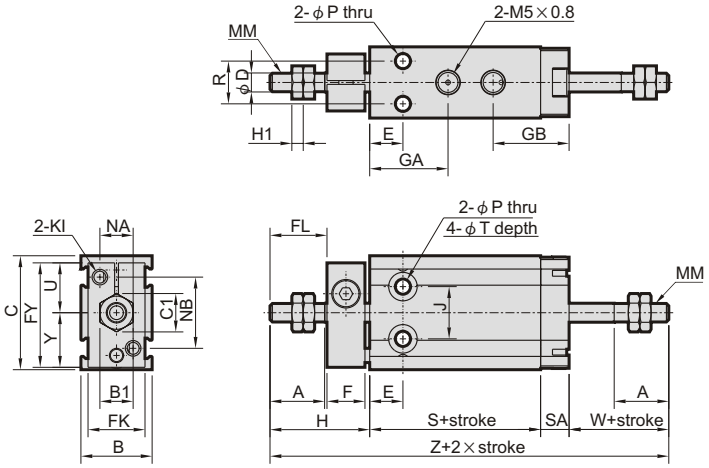
※ without magnt with stroke=5mm, GA=14.5mm.

Code / Tube I.D.	T	W	without magnet		magnet	
			S	Z	S	Z
6	6×4.8depth	13	38	70	38	70
10	6×5depth	16	36	74	36	74
16	7.6×6.5depth	16	30	69.5	40	79.5
20	9.3×8depth	19	36	83	46	93
25	9.3×9depth	23	40	95	50	105
32	11×11.5depth	27	42	106	52	116

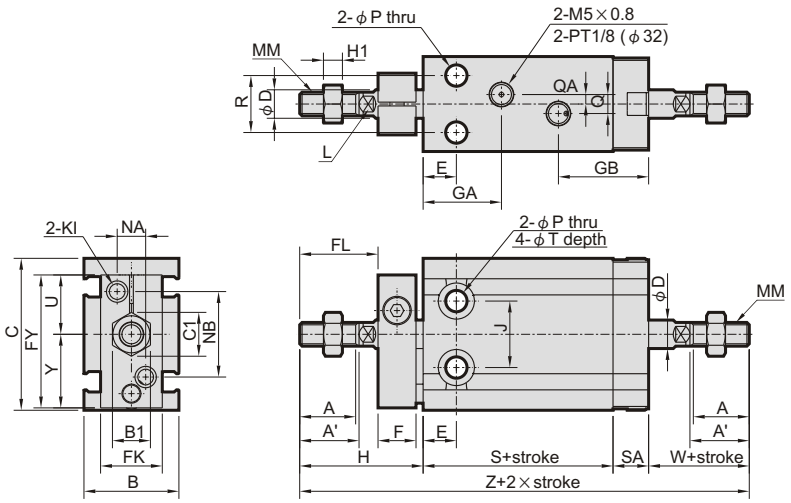
MCFA Non-rotating rod / Double rod ϕ6~ϕ32

ARBITRARY MOUNT CYLINDERS

ϕ6, ϕ10



ϕ16~ϕ32



Code / Tube I.D.	A	A'	B	B1	C	C1	D	E	F	FL	FK	FY	GA	GB	H	H1	J	KI	L	MM	NA	NB	P	Q
6	7	-	13	5.5	22	6.4	3	7	8	9	11	20.5	15	16	18	1.8	10	M3×0.5	-	M3×0.5	6	14	3.2	-
10	10	-	15	7	24	8.1	4	7	8	12	12	22	16.5	16	21	2.4	11	M3×0.5	-	M4×0.7	7	15	3.2	-
16	11	12.5	20	8	32	9.2	6	7	8	17	13	28	※16.5	19	26	4	14	M4×0.7	5	M5×0.8	6	18	4.5	4
20	12	14	26	10	40	11.5	8	9	8	20	16	33	19	21.5	29	5	16	M4×0.7	6	M6×1.0	8	20	5.5	9
25	15.5	18	32	13	50	15.0	10	10	10	22	20	43.5	21.5	22	33	5	20	M5×0.8	8	M8×1.25	10	28	5.5	9
32	19.5	22	40	17	62	19.6	12	11	12	29	24	51.5	23	22.5	42	6	24	M5×0.8	10	M10×1.25	12	32	6.6	13.5

※ without magnt with stroke=5mm, GA=14.5mm.

Code / Tube I.D.	QA	R	SA	T	U	W	Y	without magnet		magnet	
								S	Z	S	Z
6	-	7	6	6×4.8depth	10	13	10.5	38	75	38	75
10	-	9	6	6×5depth	10.5	16	11.5	36	79	36	79
16	2	12	7.5	7.6×6.5depth	12.5	16	15.5	30	79.5	40	89.5
20	4.5	16	9	9.3×8depth	13.5	19	19.5	36	93	46	103
25	4.5	20	9	9.3×9depth	19	23	24.5	40	105	50	115
32	4.5	24	10	11×11.5depth	21	27	30.5	42	121	52	131