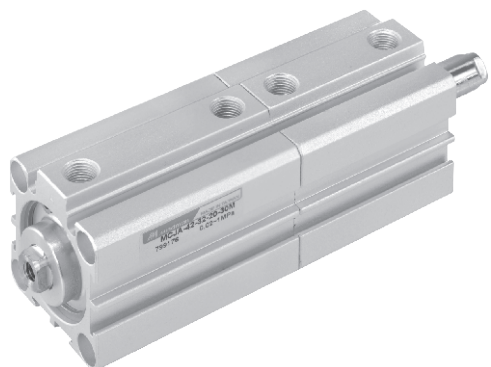


# MCJA Back to back type

## COMPACT CYLINDER

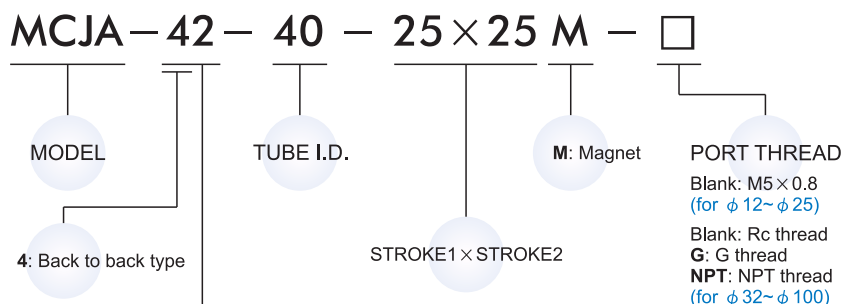


### Specification

Model		MCJT									
Acting type		Double acting / Single acting						Double acting			
Tube I.D. (mm)		12	16	20	25	32	40	50	63	80	100
Port size		M5 × 0.8			Rc1/8		Rc1/4		Rc3/8		
Medium		Air									
Operating pressure (MPa)	Double acting	0.05~1		0.03~1		0.02~1					
	Single acting	0.2~1		0.15~1		0.1~1		—			
Proof pressure		1.5 MPa									
Ambient temperature		-5~+60°C (No freezing)									
Available speed range		50~500 mm/sec									
Sensor switch (※)		RCB, RCE, RCE1, RDEP									

※ RCB, RCE, RCE1, RDEP specification, please refer to page 8-8, 10, 15.

### Order example



#### STYLE

Code	Symbol	Description
4 1		Double acting / Male thread
4 2		Double acting / Female thread
4 3		Single acting / Normally extended male thread
4 4		Single acting / Normally extended female thread
4 5		Single acting / Normally returned male thread
4 6		Single acting / Normally returned female thread

※ Order example for special specification, refer to page 0-7.

### Double acting - Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke (without magnet)
φ 12, 16	5, 10, 15, 20, 25, 30	300
φ 20, 25, 32 φ 40, 50, 63, 80	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300
φ 100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125

● Stroke out of specification is also available. Please consult us if stroke out of specification.

### Single acting - Table for standard stroke

Tube I.D.	Stroke (mm)
φ 12, 16, 20, 25, 32, 40	5, 10, 15, 20, 25, 30
φ 50	5, 10, 15, 20

● Stroke out of specification is also available. Please consult us if stroke out of specification.

# MCJA Back to back type Inside structure & Parts list



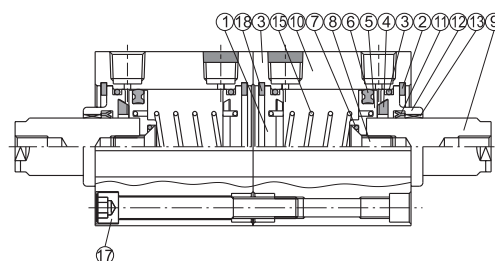
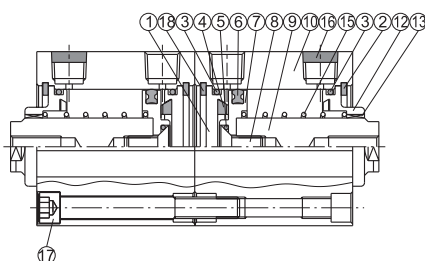
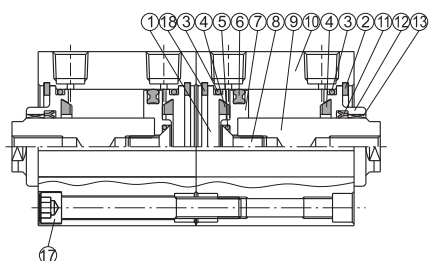
## COMPACT CYLINDER

Mindman

### Double acting

### Single acting Normally returned

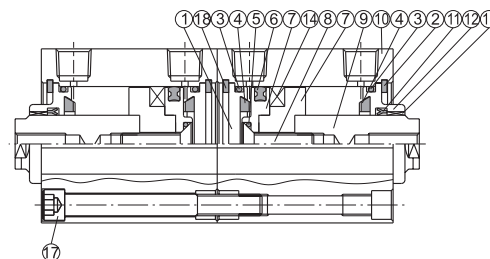
### Single acting Normally extended



### Seal kit

Acting type	Rod packing			Piston packing		Cover ring	Piston gasket
	Double action	Normally returned	Normally extended	Double action	Single action	Double action	Double action
						Single action	Single action
QTY.	2	0	2	2	2	4	2
12	KSYR-6	—	KSYR-6	OPA-12	OPA-12	S-12	d4 × w1
16	KSYR-6	—	KSYR-6	OPA-16	OPA-16	S-14	d4 × w1
20	KSYR-8	—	KSYR-8	OPA-20	OPA-20	S-18	d6 × w1
25	KSYR-10	—	KSYR-10	OPA-25	OPA-25	S-22	d8 × w1
32	KSYR-12	—	KSYR-12	OPA-32	OPA-32	d28 × w2	S-9
40	KSYR-16	—	KSYR-16	OPA-40	OPA-40	S-36	S-9
50	KSYR-20	—	KSYR-20	OPA-50	OPA-50	AS-31	S-16
63	KSYR-20	—	—	OPA-63	—	AS-35	S-16
80	ORA-25	—	—	OPA-80	—	AS-41	d20 × w1
100	SDR-30	—	—	OPA-100	—	S-95	S-26

### Double acting (with magnet)



### Material

No.	Part name	Tube I.D.	12	16	20	25	32	40	50	63	80	100	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Head cover		Aluminum alloy										2	●	
2	Snap ring(Front end)		SUS	Spring steel		SUS		Spring steel					2	●	
3	Cushion packing		NBR										4	●	●
4	Piston gasket		NBR										2	●	●
5	Piston packing		NBR										2	●	●
6	Piston		Aluminum alloy										2	●	
8	Screw	With magnet	SUS				SCM				2	●			
		Without magnet	SCM	SUS				SCM				2	●		
9	Piston rod	With magnet	SUS				Carbon steel				2				
		Without magnet	SUS	Carbon steel								2			
10	Body		Aluminum alloy										2		
11	Rod packing		NBR										2 <sup>(*)</sup>	●	●
12	Rod cover		Aluminum alloy										2	●	
13	Bush		—				Bearing alloy				2	●			
14	Magnet ring		Magnet material										2	●	
15	Spring		SWP				—				2	●			
16	Silencer		Brass				—				2	●			
17	Screw		SCM										2	●	
18	Snap ring(Rear end)		SUS				Spring steel				2	●			

\* Single acting / Normally returned, Q'y=0.

### Order example Component parts

Tube I.D.	Component parts
φ 12	CP-MCJA-4-12(M)
φ 16	CP-MCJA-4-16(M)
φ 20	CP-MCJA-4-20(M)
φ 25	CP-MCJA-4-25(M)
φ 32	CP-MCJA-4-32(M)
φ 40	CP-MCJA-4-40(M)
φ 50	CP-MCJA-4-50(M)
φ 63	CP-MCJA-4-63(M)
φ 80	CP-MCJA-4-80(M)
φ 100	CP-MCJA-4-100(M)

M: With magnet

### Repair kits

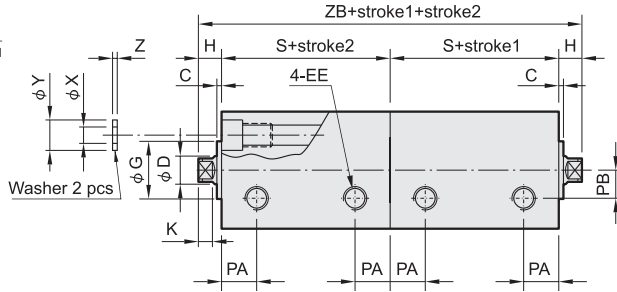
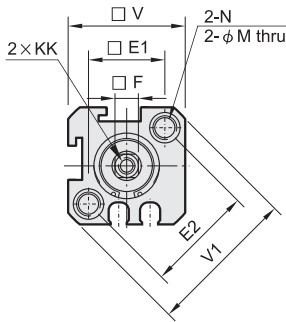
Tube I.D.	Repair kits
φ 12	PS-MCJA-4-12
φ 16	PS-MCJA-4-16
φ 20	PS-MCJA-4-20
φ 25	PS-MCJA-4-25
φ 32	PS-MCJA-4-32
φ 40	PS-MCJA-4-40
φ 50	PS-MCJA-4-50
φ 63	PS-MCJA-4-63
φ 80	PS-MCJA-4-80
φ 100	PS-MCJA-4-100

# MCJA Double action / Female thread $\phi 12 \sim \phi 100$

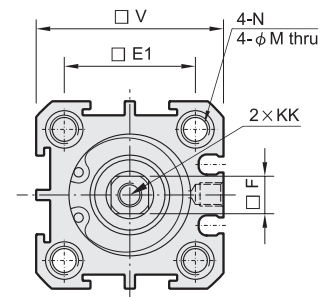
## COMPACT CYLINDER



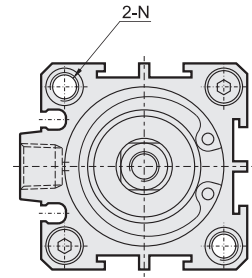
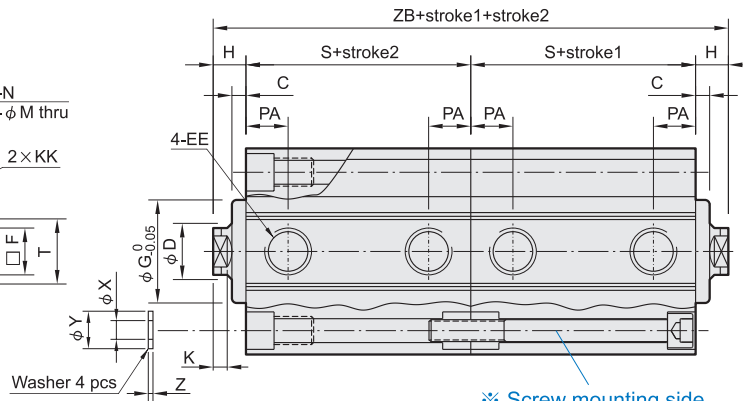
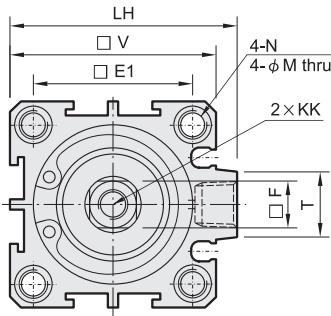
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 100$



Code Tube I.D.	C	D	EE	E1	E2	F	G	H	K	KK	LH	M	N	PA	PB
12	1	6	M5×0.8	16.3	23	5	11	5	3	M3×0.5×6 depth	—	4.3	$\phi 6.5 \times 4.5$ depth · M5×0.8×7.5 depth	6.5	6
16	1.5	6	M5×0.8	19.8	28	5	11	5.5	3	M3×0.5×6 depth	—	4.3	$\phi 6.5 \times 4.5$ depth · M5×0.8×7.5 depth	7	6.5
20	1.5	8	M5×0.8	24	—	6	15	5.5	3	M4×0.7×8 depth	—	4.3	$\phi 6.5 \times 4.5$ depth · M5×0.8×7.5 depth	7.5	—
25	2	10	M5×0.8	28	—	8	17	6	3	M5×0.8×10 depth	—	5.1	$\phi 9 \times 7$ depth · M6×1.0×10 depth	8	—
32	3	12	Rc1/8(※1)	34	—	10	22	7	3	M6×1.0×12 depth	48.5	5.1	$\phi 9 \times 7$ depth · M6×1.0×10 depth	9	—
40	3	16	Rc1/8(※1)	40	—	14	28	7	3	M8×1.25×12 depth	56.5	6.9	$\phi 10.5 \times 8$ depth · M8×1.25×12 depth	10	—
50	4	20	Rc1/4(※2)	48	—	17	38	9	3	M10×1.5×15 depth	70	6.9	$\phi 11 \times 8.5$ depth · M8×1.25×16.5 depth	10	—
63	4	20	Rc1/4(※2)	60	—	17	40	9	3	M10×1.5×15 depth	83	6.9	$\phi 11 \times 8.5$ depth · M8×1.25×16.5 depth	12	—
80	5	25	Rc3/8(※3)	74	—	22	45	11	4	M14×1.5×20 depth	102	10.5	$\phi 14 \times 10.5$ depth · M12×1.75×12 depth	13	—
100	5	30	Rc3/8(※3)	90	—	27	55	12	4	M18×1.5×20 depth	122	12.3	$\phi 18.5 \times 13$ depth · M14×2×17 depth	17	—

※1. Without magnet with stroke=5mm, EE=M5×0.8

※3. Without magnet with stroke=5mm, EE=Rc1/4

※2. Without magnet with stroke=5mm, EE=Rc1/8

Code Tube I.D.	T	V	V1	X	Y	Z	Without magnet		Magnet	
							S	ZB	S	ZB
12	—	25	32	3.2	6.3	1	17	44	27	64
16	—	29	38	3.2	6.3	1	18.5	48	28.5	68
20	—	34	—	3.2	6.3	1	19.5	50	29.5	70
25	—	40	—	4.2	7.8	1	21	54	31	74
32	14	44	—	4.2	7.8	1	24.5	63	34.5	83
40	14	52	—	6.2	10.3	1.6	26	66	36	86
50	19	62	—	6.2	10.8	1.6	28	74	38	94
63	20	75	—	6.2	10.8	1.6	32	82	42	102
80	27	94	—	8.2	13.8	1.6	41	104	51	124
100	26	114	—	10.2	17.3	2	51	126	61	146

### Long stroke without counter bore

With magnet type:  
The stroke length must be over 100mm.  
Without magnet type:  
The stroke length must be over 110mm.

$\phi 12 \sim \phi 100$

