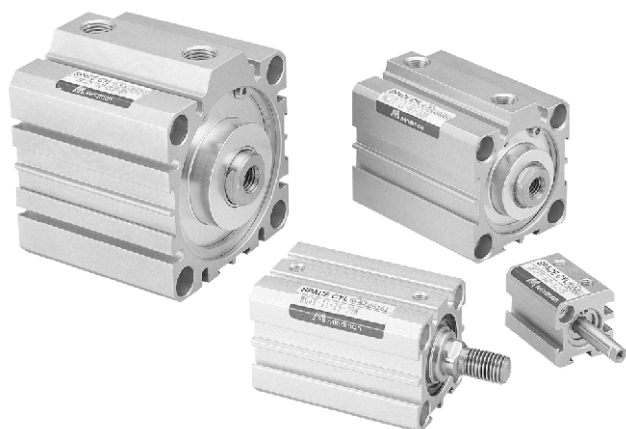
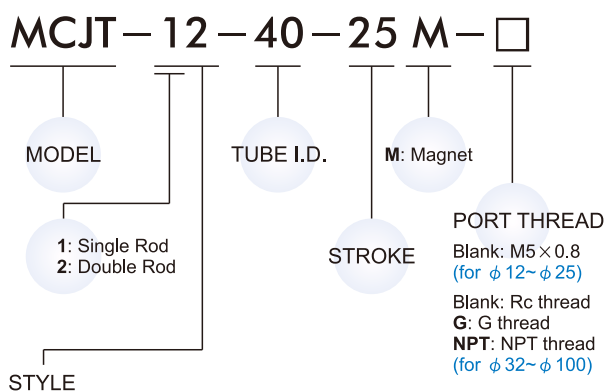




Order example



Code	Symbol	Description
1 1		Double acting / Male thread
1 2		Double acting / Female thread
1 3		Single acting / Normally extended male thread
1 4		Single acting / Normally extended female thread
1 5		Single acting / Normally returned male thread
1 6		Single acting / Normally returned female thread
2 1		Double rod / Male thread
2 2		Double rod / Female thread
2 7		Double rod / Adjustable male thread
2 8		Double rod / Adjustable female thread

※ Order example for special specification, refer to page J-03.

Features

- Ultra Compact, light weight and space saving cylinder.
- Wide range of bore sizes and strokes (12mm~100mm).
- Single and double acting available.

Specification

Model	MCJT				
Acting type	Double acting / Single acting		Double acting		
Tube I.D. (mm)	12	16	20	25	32
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				

※ RCB, RCE, RCE1 specification, please refer to page V-07, V-09.

Double acting - Table for standard stroke

	Tube I.D.	Stroke (mm)	Max. stroke
Single rod	φ 12, φ 16	5, 10, 15, 20, 25, 30	300
	φ 20,25,32	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300
	φ 40,50,63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125
	φ 80~100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125
Dual rod	φ 12, φ 16	5, 10, 15, 20, 25, 30	300
	φ 20,25,32	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300
	φ 40,50,63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125
	φ 80~100	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

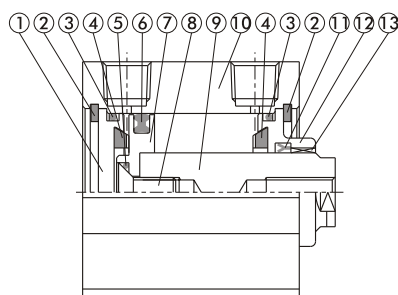
Tube I.D.	Stroke (mm)
φ 12, 16, 20, 25, 32, 40	5, 10
φ 50	10, 20

MCJT Inside structure & Parts list

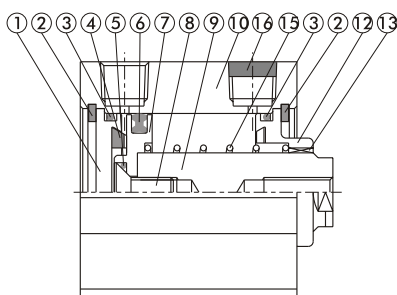
COMPACT CYLINDERS



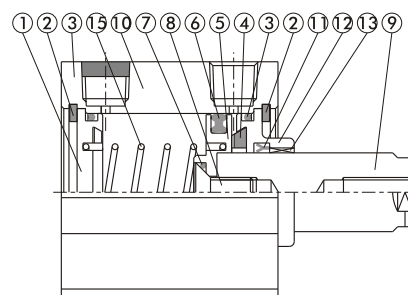
Double acting



Single acting Normally returned



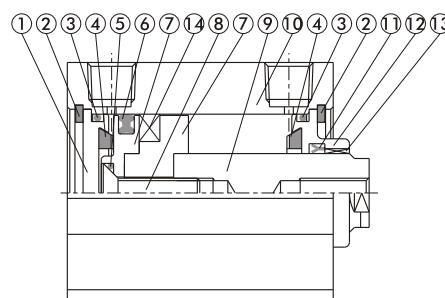
Single acting Normally extended



Seal kit

Acting type	Rod packing		Piston packing		Cover ring	Piston gasket
	Double action normally extended	Normally returned	Double action	Single action	Double action single action	Double action single action
Qty.	1	0	1	1	2	1
12	KSYR-6	—	OPA-12	OPA-12	S-12	d4 × w1
16	KSYR-8	—	OPA-16	OPA-16	S-14	d6 × w1
20	KSYR-10	—	OPA-20	OPA-20	S-18	d6 × w1
25	KSYR-12	—	OPA-25	OPA-25	S-22	d8 × w1
32	KSYR-16	—	OPA-32	OPA-32	d28 × w2	S-9
40	KSYR-16	—	OPA-40	OPA-40	S-36	S-9
50	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)



Order example Component parts

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

M: With magnet

Repair kits

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

Material

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

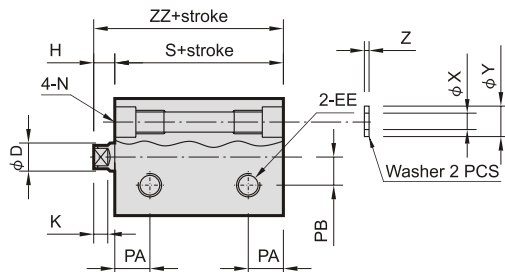
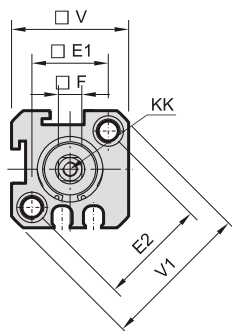


MCJT Female thread $\phi 12 \sim \phi 100$

COMPACT CYLINDERS



$\phi 12, \phi 16$



$\phi 12, \phi 16$ Long stroke
(Without counter bore)

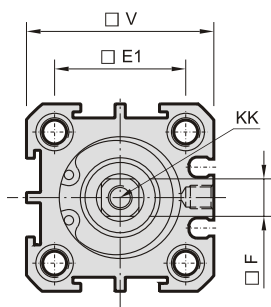


$\phi 20 \sim \phi 100$ Long stroke
(Without counter bore)

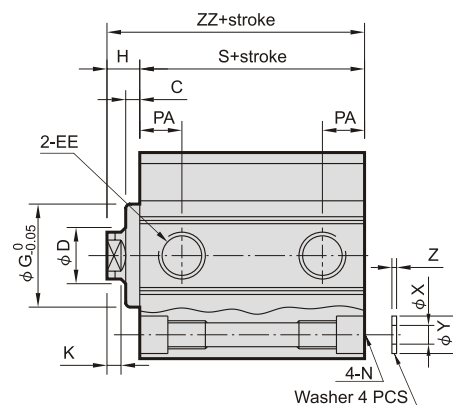
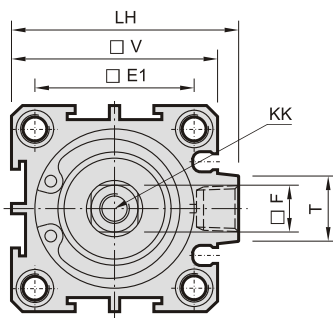


※ with magnet type: the stroke length must be over 100mm.

$\phi 20, \phi 25$



$\phi 32 \sim \phi 100$



Code Tube I.D.	C	D	E1	E2	EE	F	G	H	K	KK	LH	N	PA	PB
12	-	6	16.3	23	M5×0.8	5	-	4.5	3	M3×0.5×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	-	8	19.8	28	M5×0.8	6	-	4.5	3	M4×0.7×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	1.5	10	24	-	M5×0.8	8	13	5.5	3	M5×0.8×10depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	12	28	-	M5×0.8	10	17	6	3	M6×1×10depth	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	3.3	16	34	-	Rc1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	3.3	16	40	-	Rc1/8(※1)	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	4	20	48	-	Rc1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-
63	4	20	60	-	Rc1/4(※2)	17	40	9	3	M10×1.5×15depth	83	11×8.5depth, 6.9, M8×1.25×10depth	11	-
80	5	25	74	-	Rc3/8(※3)	22	45	11	4	M14×2×20depth	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	3	30	90	-	Rc3/8(※3)	27	45	9	4	M18×2.5×20depth	122	18.5×13depth, 12.3, M14×2×15depth	15	-

※1: without magnet with stroke=5mm, EE=M5×0.8

※3: without magnet with stroke=5mm, EE=Rc1/4

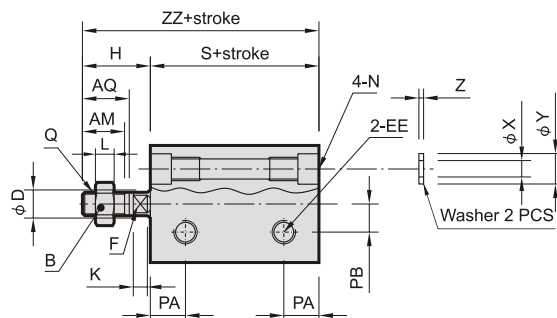
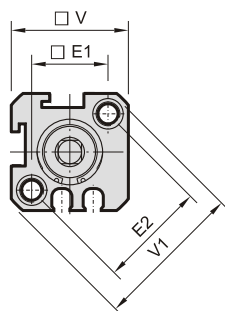
※2: without magnet with stroke=5mm, EE=Rc1/8

Code Tube I.D.	T	V	V1	X	Y	Z	without magnet		magnet	
							S	ZZ	S	ZZ
12	-	25	32	3.2	6.3	1	20.5	25	25.5	30
16	-	29	38	3.2	6.3	1	20.5	25	30.5	35
20	-	34	-	3.2	6.3	1	19.5	25	29.5	35
25	-	40	-	4.2	7.8	1	21	27	31	37
32	14	44	-	4.2	7.8	1	24	31	34	41
40	14	52	-	6.2	10.3	1.6	26.5	33.5	36.5	43.5
50	19	62	-	6.2	10.8	1.6	28.6	37.6	38.6	47.6
63	20	75	-	6.2	10.8	1.6	32.5	41.5	42.5	51.5
80	27	94	-	8.2	13.8	1.6	41	52	51	62
100	26	114	-	10.2	17.3	2	45	54	55	64



Mindman

$\phi 12, \phi 16$



$\phi 12, \phi 16$ Long stroke (Without counter bore)

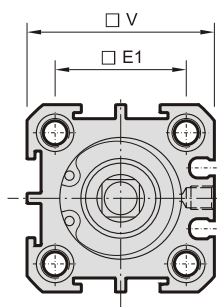


$\phi 20 \sim \phi 100$ Long stroke (Without counter bore)

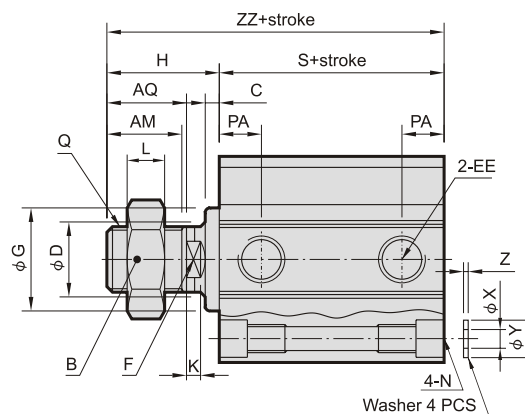
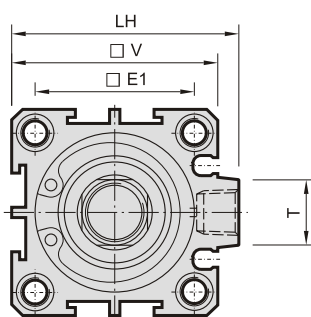


※ with magnet type: the stroke length must be over 100mm.

$\phi 20, \phi 25$



$\phi 32 \sim \phi 100$



Code Tube I.D.	AM	AQ	B	C	D	E1	E2	EE	F	G	H	K	L	LH	N	PA	PB
12	9	10	8	-	6	16.3	23	M5×0.8	5	-	14.5	3	4	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	9	10	10	-	8	19.8	28	M5×0.8	6	-	14.5	3	5	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	13	14	13	1.5	10	24	-	M5×0.8	8	13	19.5	3	5	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	15	16	17	2	12	28	-	M5×0.8	10	17	22	3	6	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	16	17	22	3.3	16	34	-	Rc1/8(※1)	14	22	24	3	8	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	25	27	22	3.3	16	40	-	Rc1/8(※1)	14	28	34	3	8	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	25	27	26	4	20	48	-	Rc1/4(※2)	17	38	36	3	11	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-
63	25	27	26	4	20	60	-	Rc1/4(※2)	17	40	36	3	11	83	11×8.5depth, 6.9, M8×1.25×10depth	11	-
80	30	33	32	5	25	74	-	Rc3/8(※3)	22	45	44	4	13	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	30	33	35	3	30	90	-	Rc3/8(※3)	27	45	42	4	14	122	18.5×13depth, 12.3, M14×2×15depth	15	-

※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.	Q	T	V	V1	X	Y	Z	without magnet		magnet	
								S	ZZ	S	ZZ
12	M5×0.8	-	25	32	3.2	6.3	1	20.5	35	25.5	40
16	M6×1	-	29	38	3.2	6.3	1	20.5	35	30.5	45
20	M8×1	-	34	-	3.2	6.3	1	19.5	39	29.5	49
25	M10×1.25	-	40	-	4.2	7.8	1	21	43	31	53
32	M14×1.5	14	44	-	4.2	7.8	1	24	48	34	58
40	M14×1.5	14	52	-	6.2	10.3	1.6	26.5	60.5	36.5	70.5
50	M18×1.5	19	62	-	6.2	10.8	1.6	28.6	64.6	38.6	74.6
63	M18×1.5	20	75	-	6.2	10.8	1.6	32.5	68.5	42.5	78.5
80	M22×1.5	27	94	-	8.2	13.8	1.6	41	85	51	95
100	M26×1.5	26	114	-	10.2	17.3	2	45	87	55	97