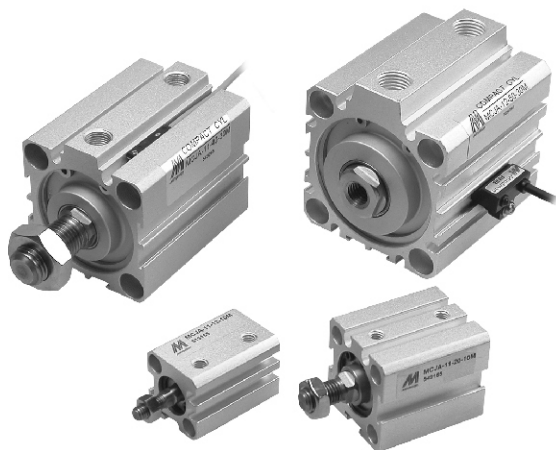


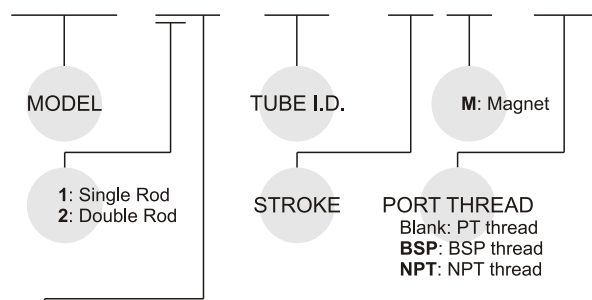
MCJA series

COMPACT CYLINDERS



Order example:

MCJA – 12 – 40 – 25 M – BSP



STYLE:

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

Features:

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

Model		MCJA									
Acting type		Double acting / Single acting						Double acting			
Tube I.D. (mm)		12	16	20	25	32	40	50	63	80	100
Port size RC(PT)		M5 × 0.8			PT 1/8		PT 1/4		PT 3/8		
Medium		Air									
Operating pressure Kg/cm ²	Double acting	0.5~9.9		0.3~9.9		0.2~9.9					
	Single acting	2.0~9.9		1.5~9.9		1.0~9.9		—			
Test pressure		15 kgf/cm ²									
Ambient temperature		-5~+60°C (No freezing)									
Sensor switch		RCB, RCE, RCE1									

Double acting - Table for standard stroke

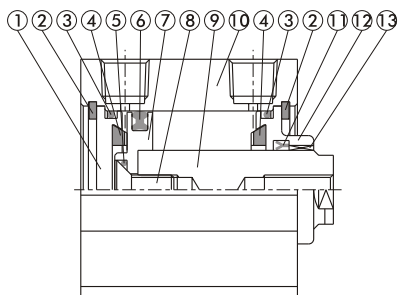
	Tube I.D.	Stroke (mm)	Max. stroke
Single rod	φ 12, φ 16	5, 10, 15, 20, 25, 30	300
	φ 20, 25, 32 φ 40, 50, 63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300
	φ 80, 100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125
Dual rod	φ 12, 16	5, 10, 15, 20, 25, 30	300
	φ 20, 25, 32 φ 40, 50, 63	5, 10, 15, 20, 25, 30, 35,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

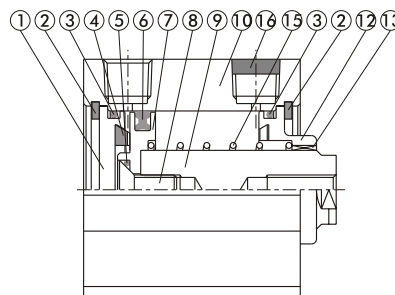
Single acting - Table for standard stroke

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

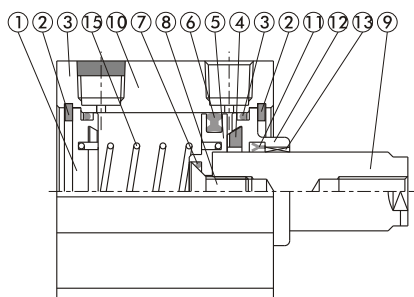
Double acting



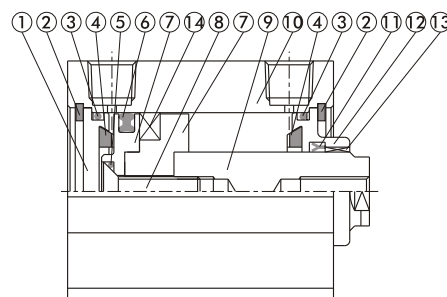
Single acting Normally returned



Single acting Normally extended



Double acting (with magnet)



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	d4 × 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-36	S-16
80	ORA-25	—	OPA-80	—	AS-41	d20 × w1
100	SDR-30	—	OPA-100	—	S-95	S-26

Material

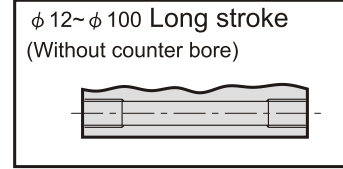
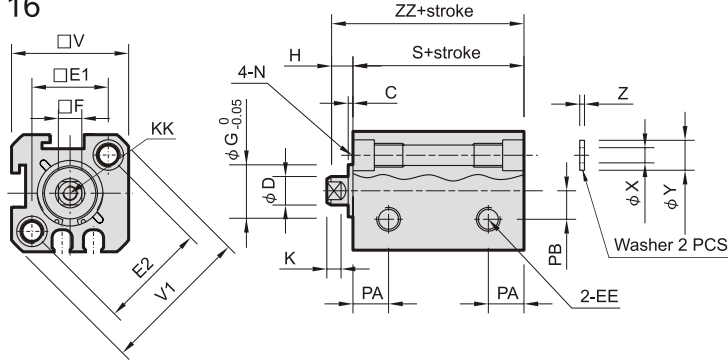
No.	Part name	Tube I.D.								
		12	16	20	25	32	40	50	63	80
1	Head cover	Aluminum alloy								
2	Snap ring	Spring steel								
3	Cushion packing	NBR								
4	Cushion packing	—	NBR							
5	Piston gasket	NBR								
6	Piston packing	NBR								
7	Piston	Aluminum alloy								
8	Screw	SCM								
9	Piston rod	with magnet			Stainless steel SUS			Carbon steel		
		without magnet			SUS			Carbon steel		
10	Body	Aluminum alloy								
11	Rod packing	NBR								
12	Rod cover	Aluminum alloy								
13	Bush	—					Teflon			
14	Magnet	Plastic								
15	Spring	SWP						—		
16	Silencer	Brass						—		

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

COMPACT CYLINDERS

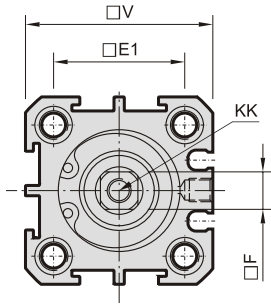


$\phi 12, \phi 16$

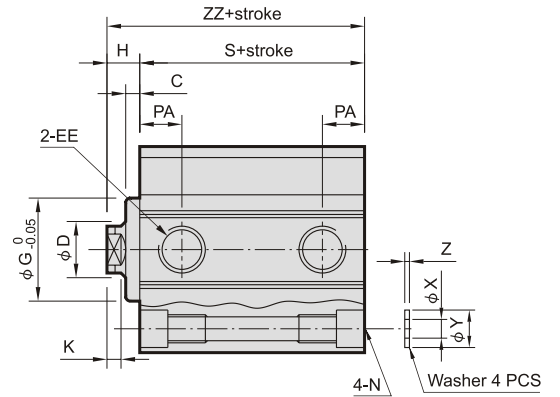
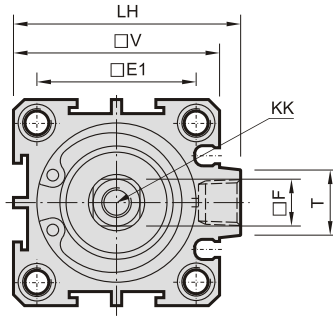


※ with magnet type: the stroke length must be over 100mm.

$\phi 20, \phi 25$



$\phi 32\sim\phi 100$



Code Tube I.D.	C	D	EE	E1	E2	F	G	H	K	KK	LH	N	PA	PB
12	1	6	M5×0.8	16.3	23	5	11	5	3	M3×0.5×6depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	6.5	6
16	1.5	6	M5×0.8	19.8	28	5	11	5.5	3	M3×0.5×6depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7	6.5
20	1.5	8	M5×0.8	24	-	6	15	5.5	3	M4×0.7×8depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	10	M5×0.8	28	-	8	17	6	3	M5×0.8×10depth	-	9×7depth, 5.1, M6×1×10depth	8	-
32	3	12	PT 1/8(※1)	34	-	10	22	7	3	M6×1×12depth	48.5	9×7depth, 5.1, M6×1×10depth	9	-
40	3	16	PT 1/8(※1)	40	-	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×12.5depth	10	-
50	4	20	PT 1/4(※2)	48	-	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10	-
63	4	20	PT 1/4(※2)	60	-	17	40	9	3	M10×1.5×15depth	83	11×8.5depth, 6.9, M8×1.25×16.5depth	12	-
80	5	25	PT 3/8(※3)	74	-	22	45	11	4	M14×1.5×20depth	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	5	30	PT 3/8(※3)	90	-	27	55	12	4	M18×1.5×20depth	122	17.5×13depth, 12.3, M14×2×17depth	17	-

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

※3: without magnet with stroke=5mm, EE=PT1/4

※2: without magnet with stroke=5mm, EE=PT1/8

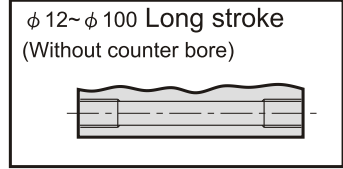
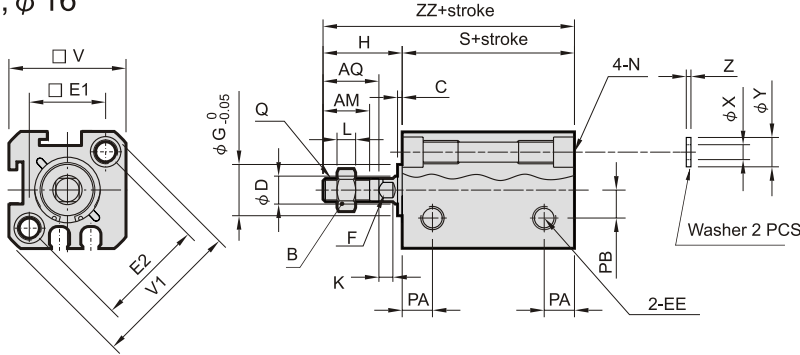
Code Tube I.D.	T	V	V1	X	Y	Z	without magnet		magnet	
							S	ZZ	S	ZZ
12	-	25	32	3.2	6.3	1	17	22	27	32
16	-	29	38	3.2	6.3	1	18.5	24	28.5	34
20	-	34	-	3.2	6.3	1	19.5	25	29.5	35
25	-	40	-	4.2	7.8	1	21	27	31	37
32	14	44	-	4.2	7.8	1	24.5	31.5	34.5	41.5
40	14	52	-	6.2	10.3	1.6	26	33	36	43
50	19	62	-	6.2	10.8	1.6	28	37	38	47
63	20	75	-	6.2	10.8	1.6	32	41	42	51
80	27	94	-	8.2	13.8	1.6	41	52	51	62
100	26	114	-	10.2	17.3	2	51	63	61	73

MCJA Male thread $\phi 12\sim\phi 100$

COMPACT CYLINDERS

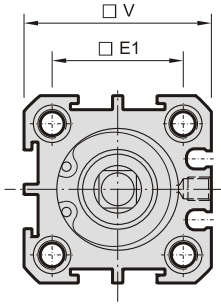


$\phi 12, \phi 16$

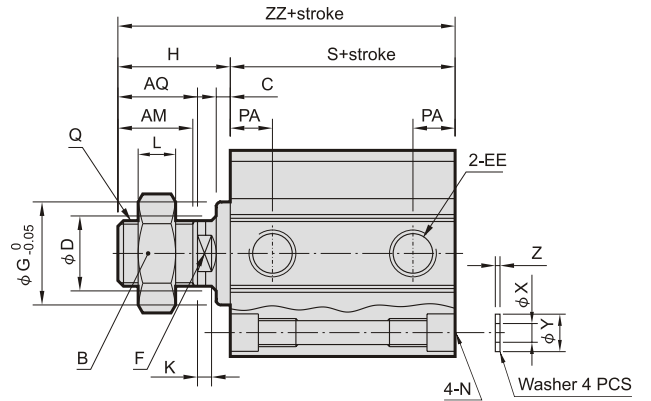
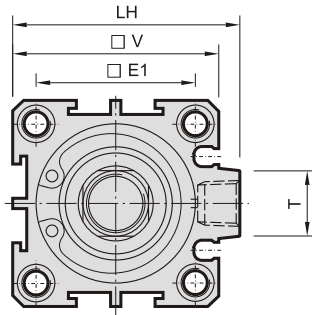


※ with magnet type: the stroke length must be over 100mm.

$\phi 20, \phi 25$



$\phi 32\sim\phi 100$



Code Tube I.D.	AM	AQ	B	C	D	EE	E1	E2	F	G	H	K	L	LH	N	PA	PB
12	10	12	8	1	6	M5×0.8	16.3	23	5	11	17	3	4	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	6.5	6
16	10	12	8	1.5	6	M5×0.8	19.8	28	5	11	17.5	3	4	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7	6.5
20	13	15	10	1.5	8	M5×0.8	24	-	6	15	20.5	3	5	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	15	17	13	2	10	M5×0.8	28	-	8	17	23	3	5	-	9×7depth, 5.1, M6×1×10depth	8	-
32	15	18	17	3	12	PT 1/8(註1)	34	-	10	22	25	3	6	48.5	9×7depth, 5.1, M6×1×10depth	9	-
40	25	28	22	3	16	PT 1/8(註1)	40	-	14	28	35	3	8	56.5	10.5×8depth, 6.9, M8×1.25×12.5depth	10	-
50	25	28	26	4	20	PT 1/4(註2)	48	-	17	38	37	3	11	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10	-
63	25	28	26	4	20	PT 1/4(註2)	60	-	17	40	37	3	11	83	11×8.5depth, 6.9, M8×1.25×16.5depth	12	-
80	30	33	32	5	25	PT 3/8(註3)	74	-	22	45	44	4	13	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	35	38	35	5	30	PT 3/8(註3)	90	-	27	55	50	4	14	122	17.5×13depth, 12.3, M14×2×17depth	17	-

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

※3: without magnet with stroke=5mm, EE=PT1/4

※2: without magnet with stroke=5mm, EE=PT1/8

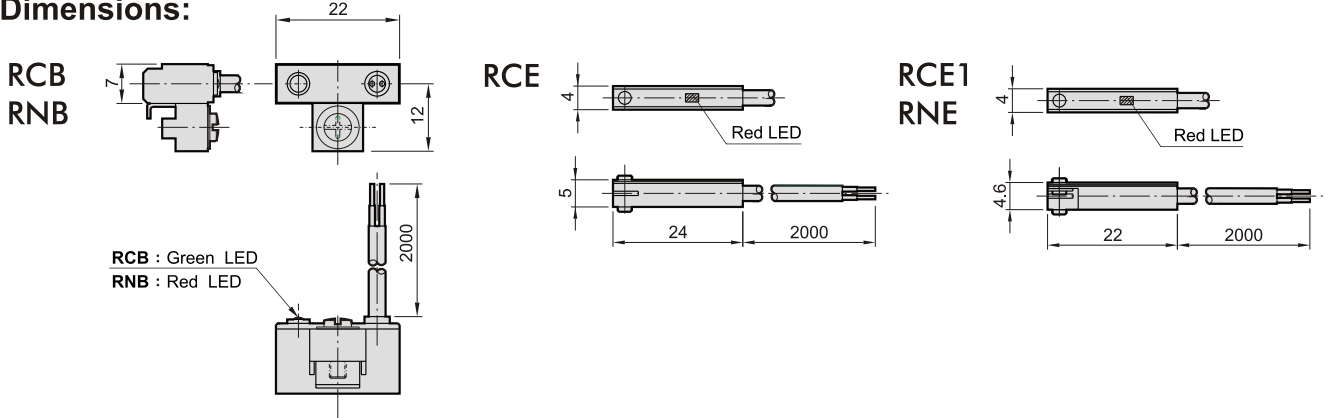
Code Tube I.D.	Q	T	V	V1	X	Y	Z	without magnet		magnet	
								S	ZZ	S	ZZ
12	M5×0.8	-	25	32	3.2	6.3	1	17	34	27	44
16	M5×0.8	-	29	38	3.2	6.3	1	18.5	36	28.5	46
20	M6×1	-	34	-	3.2	6.3	1	19.5	40	29.5	50
25	M8×1.25	-	40	-	4.2	7.8	1	21	44	31	54
32	M10×1.25	14	44	-	4.2	7.8	1	24.5	49.5	34.5	59.5
40	M14 1.5	14	52	-	6.2	10.3	1.6	26	61	36	71
50	M18×1.5	19	62	-	6.2	10.8	1.6	28	65	38	75
63	M18×1.5	20	75	-	6.2	10.8	1.6	32	69	42	79
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	51	101	61	111

MCJA Installation of sensor switch $\phi 12 \sim \phi 100$

COMPACT CYLINDERS

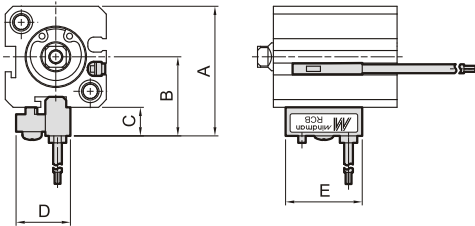


Dimensions:

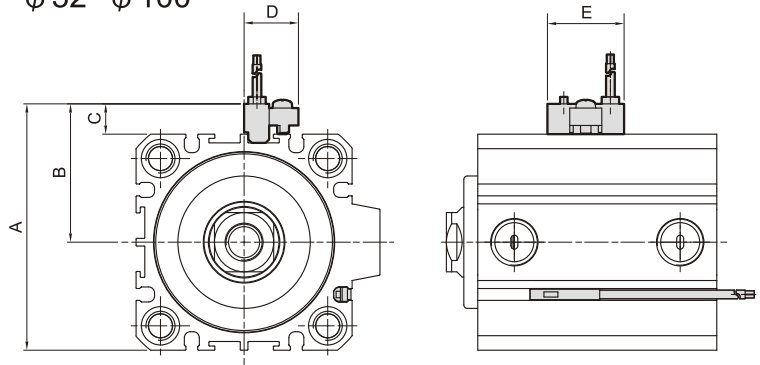


Installation of sensor switch:

$\phi 12, \phi 16$



$\phi 32 \sim \phi 100$



Order example:

RCB - □

MODEL

RCB / RCE / RCE1 (C: Reed switch)
RNB / RNE (N: Solid state switch)

Blank: Lead wire
QD: Connector

Code Tube I.D.	A	B	C	D	E
12	33.5	21.5	8.5	16	22
16	37.5	23	8.5	16	22
20	42.5	25.5	8.5	16	22
25	49	29	9	16	22
32	53	31	9	16	22

Code Tube I.D.	A	B	C	D	E
40	61	35	9	16	22
50	71	40	9	16	22
63	84	46.5	9	16	22
80	103	56	9	16	22
100	123	66	9	16	22

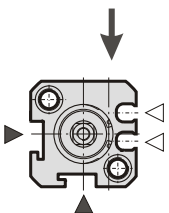
Description:

▽ RCB switch

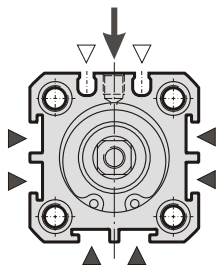
↓ Port

▽ RCE, RCE1 switch

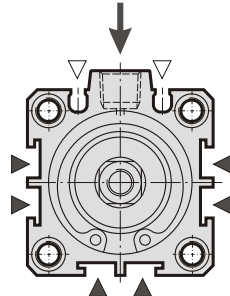
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32, \phi 40$



$\phi 50 \sim \phi 100$

