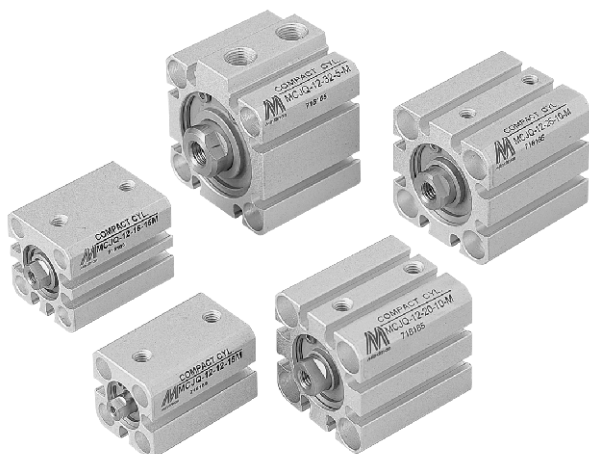




Double acting-Table for standard stroke

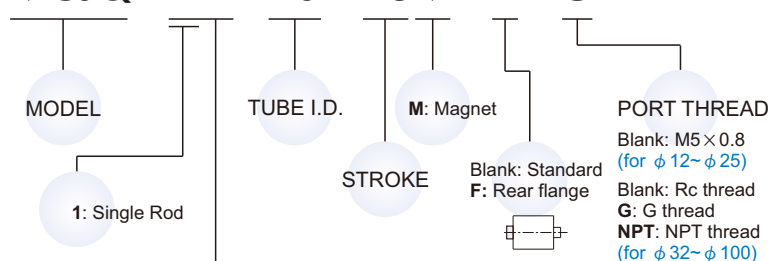
Tube I.D.	Standard stroke	Long stroke (mm)
φ 12, 16	5, 10, 15, 20, 25, 30	35, 40, 45, 50, 75, 100
φ 20	5, 10, 15, 20, 25	75, 100, 125, 150, 175, 200
φ 25	30, 35, 40, 45, 50	75, 100, 125, 150, 175, 200, 250, 300
φ 32~80	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	125, 150, 175, 200, 250, 300

Tube I.D.	Standard stroke (mm)
φ 100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

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

Order example

MCJQ – 12 – 20 – 25M – F – G



STYLE

Code	Symbol	Description
1 1		Double acting / Male thread
1 2		Double acting / Female thread

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

Features

- Ultra Compact, light weight and space saving cylinder.
- Wide range of bore sizes and strokes (12mm~100mm).
- Single and double acting available.
- Ideal for use in machinery where space is limited and incorporating sensor groove which enables flush fitting of sensors.
- Sensor can be mounted on any one of three faces on 12 and 16 bore and on four faces on 20~100 bore.

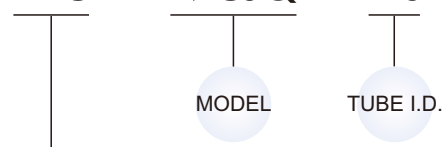
Specification

Model	MCJQ				
Acting type	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 range	0.07~1	0.05~1 MPa			
Proof pressure	1.5 MPa				
Ambient temperature	-5℃~+60℃ (No freezing)				
Available speed range	50~500 mm/sec				
Sensor switch (※)	RCE, RCE1, RDEP			RCB, RCE, RCE1, RDEP	

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

Mounting accessories

FAC – MCJQ – 20



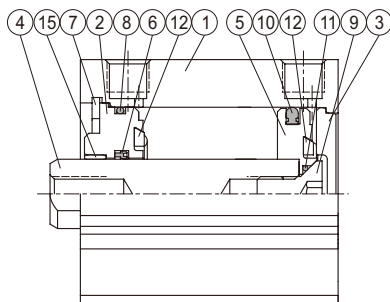
MOUNTING TYPE	
	LB
	CB
	FAC
	FBC
	RF

MCJQ Inside structure & Parts list / Standard stroke

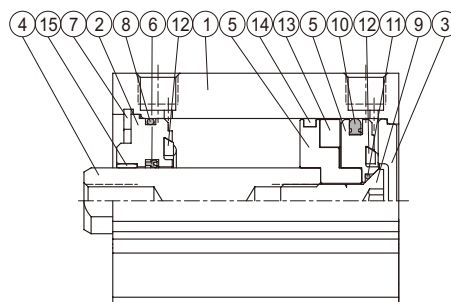
COMPACT CYLINDER



Standard stroke



Standard stroke
(with magnet)



Standard stroke — Material

No.	Tube I.D.		12	16	20	25	32	40	50	63	80	100	Note	Q'y	Component parts (inclusion)	Repair kits (inclusion)
	Part name															
1	Body		Aluminum alloy										Hard anodized	1		
2	Rod cover		Aluminum alloy										※	1	●	
3	End cover		Aluminum alloy										Anodized	1	●	
4	Piston rod	With magnet	Stainless steel				Carbor steel					1				
		Without magnet	SUS	Carbor steel							1					
5	Piston		Aluminum alloy										φ12~32 anodized	1	●	
6	Rod packing		NBR											1	●	●
7	Snap ring		Stainless steel				Spring steel					1	●			
8	Cover ring		NBR											1	●	●
9	Piston bolt		Stainless steel				SCM					1	●			
10	Piston packing		NBR											1	●	●
11	Piston gasket		NBR											1	●	●
12	Cushion packing		NBR											2	●	●
13	Magnet		Plastic											1	●	
14	Wear ring		—				Teflon					1	●			
15	Bush		—				Bearing alloy					1	●			

※ φ 12~φ 32 hard anodized ; φ 40~φ 100 anodized

Standard stroke — Seal kit

	Rod packing	Piston packing	Cover ring	Piston gasket
Acting type	Double action			
Qty.	1	1	1	1
12	KSYR-6	OPA-12	S-11	d4 × w1
16	KSYR-8	OPA-16	S-14	d5 × w1
20	KSYR-10A	OPA-20	S-18	d6 × w1
25	KSYR-12	OPA-25	S-22.4	d8 × w1
32	KSYR-16	OPA-32	S-28	S-9
40	KSYR-16	OPA-40	S-36	S-10
50	KSYR-20	OPA-50	S-46	S-16
63	KSYR-20	OPA-63	S-60	S-16
80	ORA-25	OPA-80	G-75	d20 × w1
100	ORA-30	OPA-100	G-95	S-26

Order example

Component parts

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

M: With magnet

Repair kits

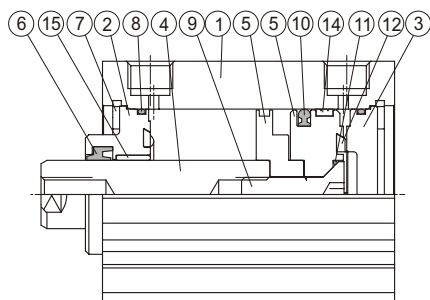
Tube I.D.	Repair kits
φ 12	PS-MCJQ-12
φ 16	PS-MCJQ-16
φ 20	PS-MCJQ-20
φ 25	PS-MCJQ-25
φ 32	PS-MCJQ-32
φ 40	PS-MCJQ-40
φ 50	PS-MCJQ-50
φ 63	PS-MCJQ-63
φ 80	PS-MCJQ-80
φ 100	PS-MCJQ-100

MCJQ Inside structure & Parts list / Long stroke

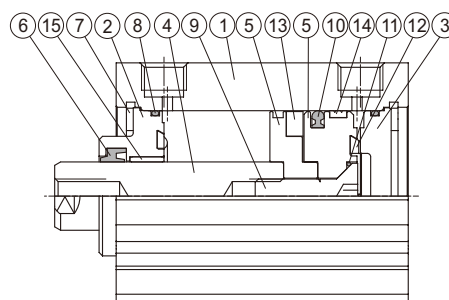
COMPACT CYLINDER



Long stroke



Long stroke
(with magnet)



Long stroke — Material

No.	Tube I.D.	12	16	20	25	32	40	50	63	80	Note	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Body	Aluminum alloy									Hard anodized	1		
2	Rod cover	Aluminum alloy									※	1	●	
3	End cover	Aluminum alloy									Anodized	1	●	
4	Piston rod	Stainless steel				Carbor steel						1		
		SUS				Carbor steel						1		
5	Piston	Aluminum alloy									φ12~32 anodized	1	●	
6	Rod packing	NBR										1	●	●
7	Snap ring	Stainless steel				Spring steel						2	●	
8	Cover ring	NBR										2	●	●
9	Piston bolt	Stainless steel				SCM						1	●	
10	Piston packing	NBR										1	●	●
11	Piston gasket	NBR										1	●	●
12	Cushion packing	NBR										2	●	●
13	Magnet	Plastic										1	●	
14	Wear ring	Teflon										1	●	
15	Bush	—				Bearing alloy						1	●	

※ φ 12~φ 32 hard anodized ; φ 40~φ 100 anodized

Long stroke — Seal kit

	Rod packing	Piston packing	Cover ring	Piston gasket
Acting type	Double action			
Qty.	1	1	2	1
12	KSYR-6	OPA-12	S-11	d4 × w1
16	KSYR-8	OPA-16	S-14	d5 × w1
20	KSYR-10A	OPA-20	S-18	d6 × w1
25	KSYR-12	OPA-25	S-22	d8 × w1
32	KSYR-16	OPA-32	d28 × w2	S-9
40	ORA-16	OPA-40	S-36	S-10
50	ORA-20	OPA-50	S-46	S-16
63	ORA-20	OPA-63	S-60	S-16
80	ORA-25	OPA-80	AS-41 G-75	d20 × w1

Order example

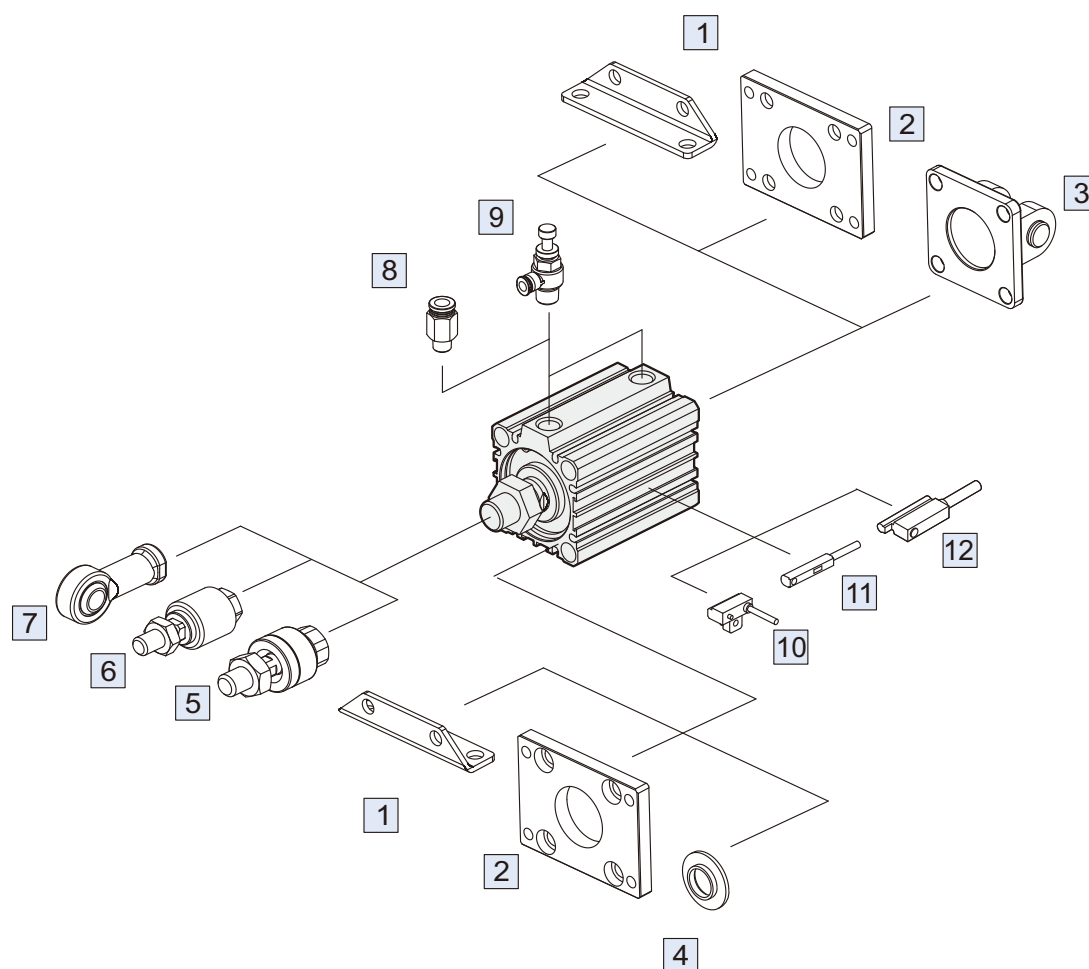
Component parts

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

Repair kits

Tube I.D.	Repair kits
φ 12	PSL-MCJQ-12
φ 16	PSL-MCJQ-16
φ 20	PSL-MCJQ-20
φ 25	PSL-MCJQ-25
φ 32	PSL-MCJQ-32
φ 40	PSL-MCJQ-40
φ 50	PSL-MCJQ-50
φ 63	PSL-MCJQ-63
φ 80	PSL-MCJQ-80

M: With magnet



No.	Accessories	Page
1	Mounting accessories LB	2-9, 11
2	Mounting accessories FAC/FBC	2-9, 10, 12, 13
3	Mounting accessories CB+PIN	2-10, 14
4	Mounting accessories RF	2-15
5	Floating joint MFC	8-2
6	Floating joint MFCS	8-4
7	Female rod ends PHS	8-5

No.	Accessories	Page
8	Fitting PC (PISCO)	8-5 (Vol.1)
9	Speed controller JSC (PISCO)	8-18 (Vol.1)
10	Sensor switch RCB	8-8
11	Sensor switch RCE/RCE1	8-10
12	Sensor switch RDEP	8-15

MCJQ Dimensions $\phi 12 \sim \phi 32$

COMPACT CYLINDER



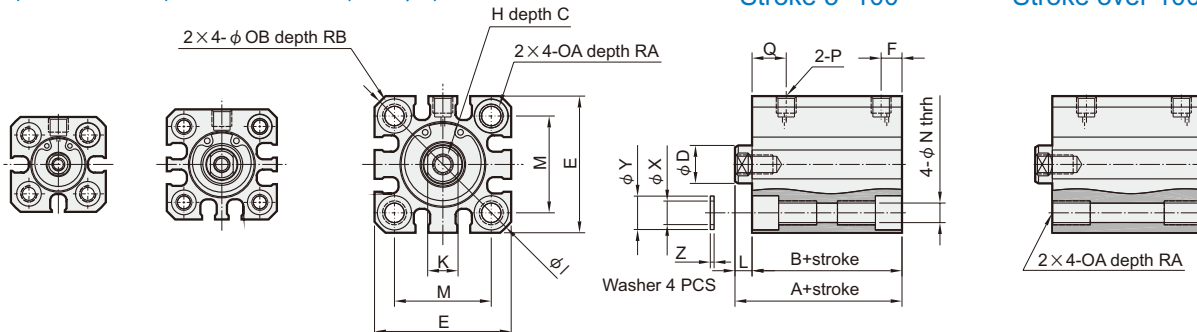
$\phi 12$

$\phi 16$

$\phi 20, \phi 25$

Stroke 5~100

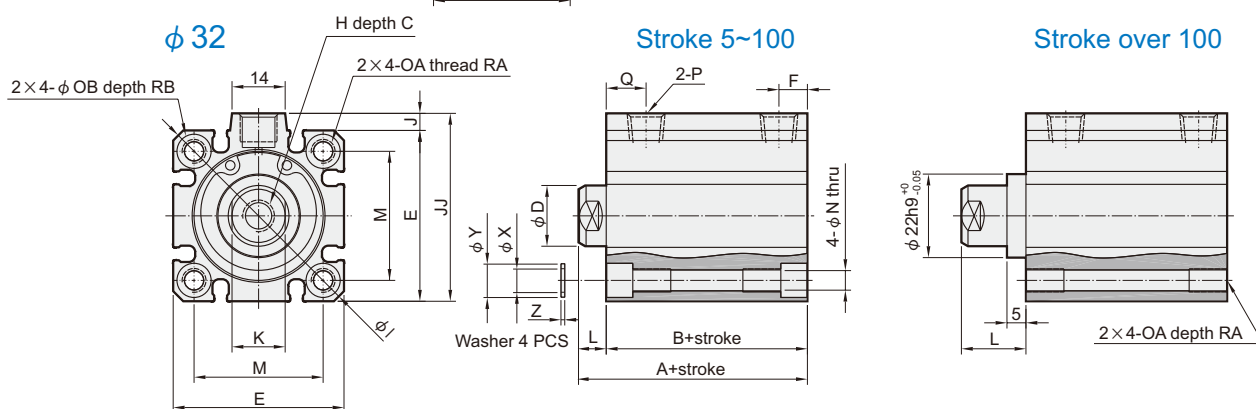
Stroke over 100



$\phi 32$

Stroke 5~100

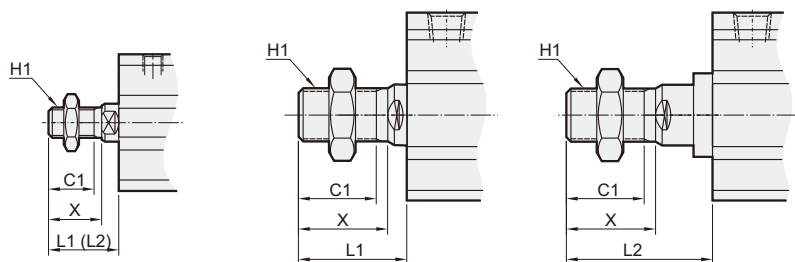
Stroke over 100



$\phi 12 \sim 25$

$\phi 32$ for Stroke 5~100

$\phi 32$ for Stroke over 100



※ L1 :Standard stroke, L2 :Long stroke

MCJQ-11 male thread size

Code Tube I.D.	C1	H1	L1	L2	X
12	9	M5×0.8	14	24	10.5
16	10	M6×1.0	15.5	25.5	12
20	12	M8×1.25	18.5	28.5	14
25	15	M10×1.25	22.5	32.5	17.5
32	20.5	M14×1.5	28.5	38.5	23.5

$\phi 12 \sim 25$

Code Tube I.D.	Standard stroke									Long stroke				C	D	E	H	I	K	M	N	OA	OB	P	Q	RA	RB	X	Y	Z	
	Stroke range	Without magnet				Magnet				Stroke range	A	B	F																		L
		A	B	F	L	A	B	F	L																						
12	5~30	20.5	17	5	3.5	25.5	22	5	3.5	31~100	45.5	32	7.5	13.5	6	6	25	M3×0.5	32	5	15.5	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	4.2	6.3	0.5
16	5~30	20.5	17	5	3.5	25.5	22	5	3.5	31~100	45.5	32	7.5	13.5	8	8	29	M4×0.7	38	6	20	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	4.2	6.3	0.5
20	5~50	24	19.5	5.5	4.5	34	29.5	5.5	4.5	51~200	55.5	41	9	14.5	7	10	36	M5×0.8	47	8	25.5	5.4	M6×1.0	9	M5×0.8	9	10	7	6.2	8.8	1
25	5~50	27.5	22.5	5.5	5	37.5	32.5	5.5	5	51~300	59	44	11	15	12	12	40	M6×1.0	52	10	28	5.4	M6×1.0	9	M5×0.8	11	10	7	6.2	8.8	1

$\phi 32$

Code	Standard stroke								Long stroke						P	C	D	E	H	I	J	JJ	K	M	N	OA	OB	RA	RB	X	Y	Z
	Stroke range	Without magnet		Magnet		F	L	Q	Stroke range	A	B	F	L	Q																		
Tube I.D.		A	B	A	B																											
32	5~50	30	23	40	33	7.5	7	10.5	101~300	62.5	45.5	12.5	17	12.5	Rc1/8 (※1)	13	16	45	M8×1.25	60	4.5	49.5	14	34	5.5	M6×1.0	9	10	7	6.2	8.8	1
	51~100	40	33	40	33	7.5	7	10.5																								

※1. Without magnet with stroke=5mm, P=M5×0.8、Q=11.5、F=5.5

MCJQ Dimensions $\phi 40 \sim \phi 100$

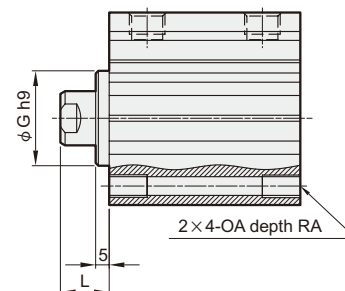
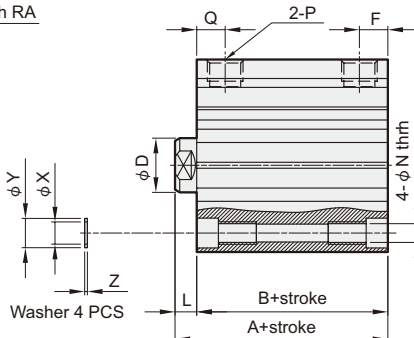
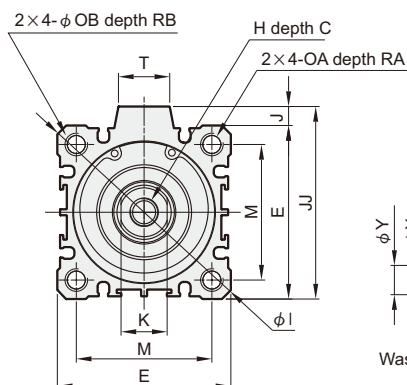
COMPACT CYLINDER



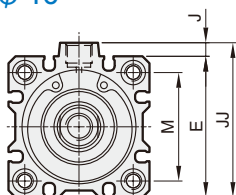
$\phi 50 \sim \phi 100$

Stroke 5~100

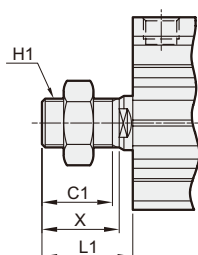
Stroke over 100



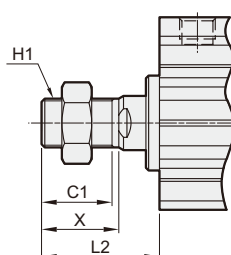
$\phi 40$



$\phi 40 \sim \phi 100$
(Stroke 5~100)



$\phi 40 \sim \phi 80$
(Stroke over 100)



MCJQ-11 male thread size

Code Tube I.D.	C1	H1	L1	L2	X
40	20.5	M14×1.5	28.5	38.5	23.5
50	26	M18×1.5	33.5	43.5	28.5
63	26	M18×1.5	33.5	43.5	28.5
80	32.5	M22×1.5	43.5	53.5	35.5
100	32.5	M26×1.5	43.5	—	35.5

Code Tube I.D.	Standard stroke								Long stroke					
	Stroke range	Without magnet		Magnet		F	L	Q	Stroke range	A	B	F	L	Q
		A	B	A	B									
40	5~50	36.5	29.5	46.5	39.5	8	7	11	125~300	72	55	14	17	14
	75, 100	46.5	39.5											
50	5~50	38.5	30.5	48.5	40.5	10.5	8	10.5	125~300	73.5	55.5	14	18	14
	75, 100	48.5	40.5											
63	5~50	44	36	54	46	10.5	8	15	125~300	75	57	16.5	18	16.5
	75, 100	54	46											
80	5~50	53.5	43.5	63.5	53.5	12.5	10	16	125~300	86	66	19	20	19
	75, 100	63.5	53.5											
100	5~50	65	53	75	63	13	12	23	—	—	—	—	—	—
	75, 100	75	63											

Code Tube I.D.	C	D	E	G ^{h9}	H	I	J	JJ	K	M	N	OA	OB	P	RA	RB	T	X	Y	Z
40	13	16	52	28 ⁺⁰ _{-0.052}	M8×1.25	70	5	57	14	40	5.5	M6×1.0	9	Rc1/8	10	7	14	6.2	8.8	1
50	15	20	64	35 ⁺⁰ _{-0.062}	M10×1.5	86	7	71	17	50	6.6	M8×1.25	11	Rc1/4 (※1)	14	8	19	8.2	10.8	1
63	15	20	77	35 ⁺⁰ _{-0.062}	M10×1.5	103	7	84	17	60	9	M10×1.5	14	Rc1/4 (※2)	18	10.5	19	10.2	13.8	1
80	21	25	98	43 ⁺⁰ _{-0.062}	M16×2.0	132	6	104	22	77	11	M12×1.75	17.5	Rc3/8 (※3)	22	13.5	26	12.2	17.3	2
100	27	30	117	—	M20×2.5	156	6.5	123.5	27	94	11	M12×1.75	17.5	Rc3/8 (※3)	22	13.5	26	12.2	17.3	2

※1. Without magnet with stroke=5mm, P=Rc1/8、Q=12、F=8

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

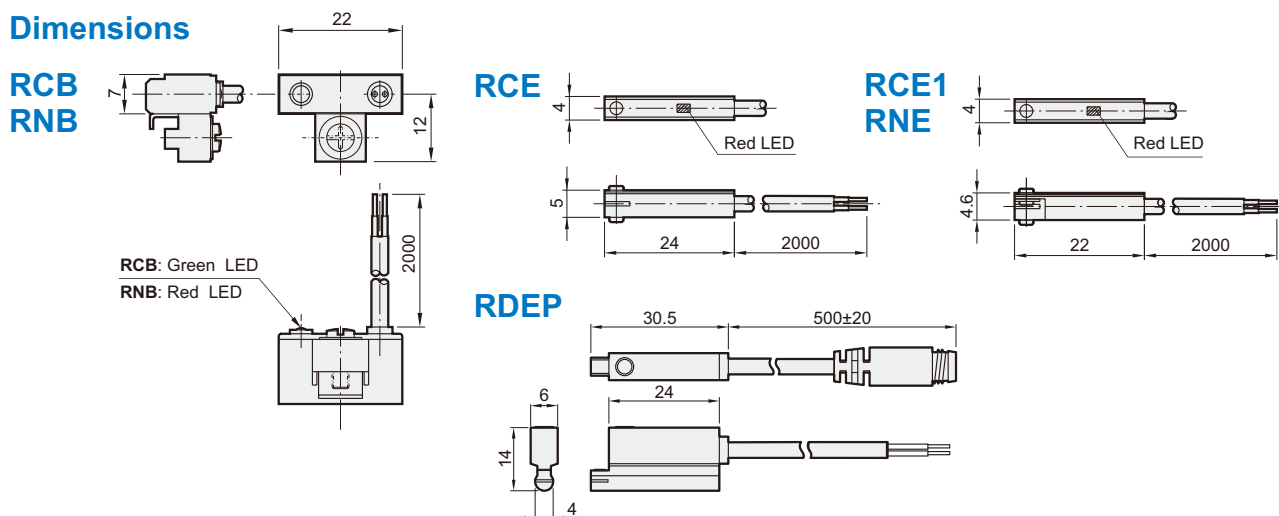
※3. Without magnet with stroke=5mm, P=Rc1/4

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

COMPACT CYLINDER

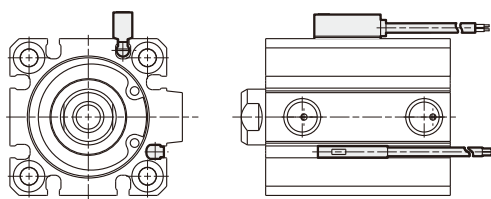


Dimensions

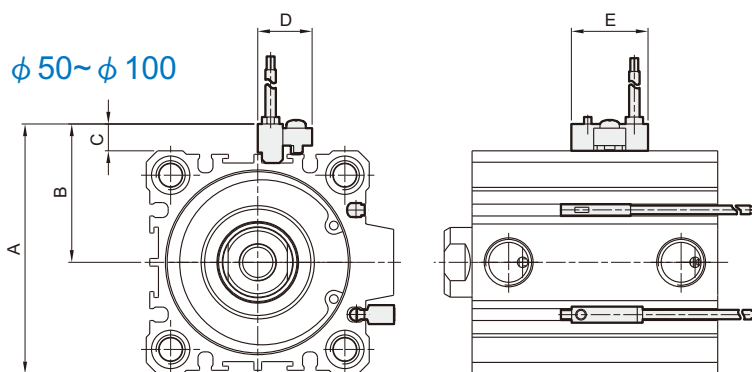


Installation of sensor switch

$\phi 12 \sim \phi 40$



$\phi 50 \sim \phi 100$



Order example

RCE1 — ☐

MODEL

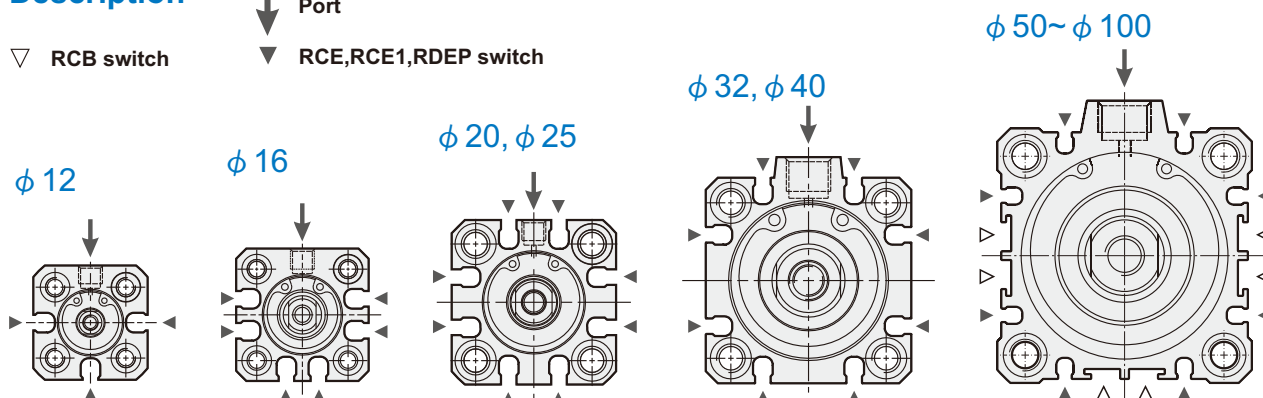
RCB / RCE / RCE1 (C: Reed switch)
RNB / RNE (N: Solid state switch)
RDEP (Solid state switch)

Blank: Lead wire
QD: Connector

Code Tube I.D.	A	B	C	D	E
50	72	40	8	16	22
63	85	46.5	8	16	22
80	106	57	8	16	22
100	125	66.5	8	16	22

Description

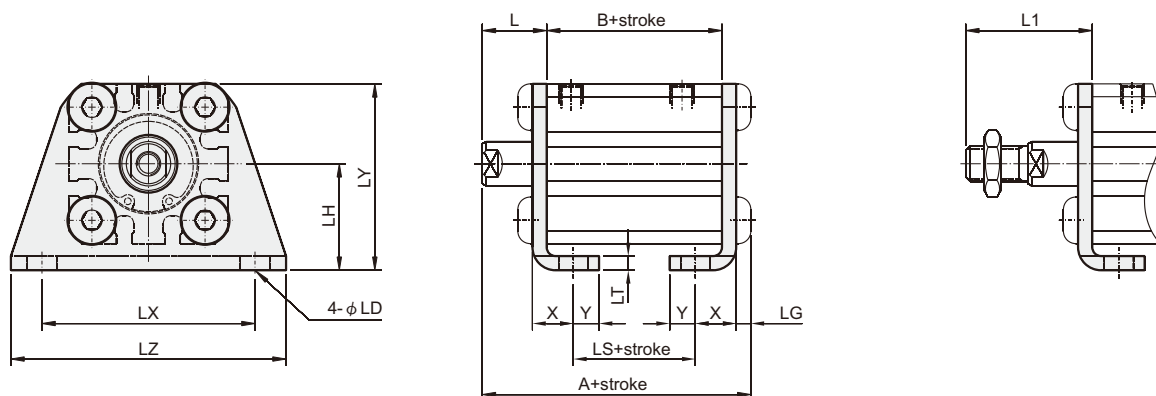
- ▽ RCB switch
- Port
- ▽ RCE, RCE1, RDEP switch



LB

Female thread

Male thread

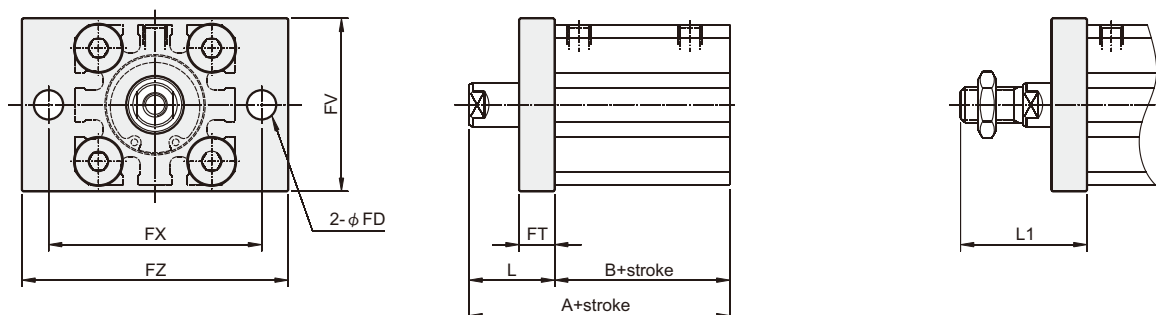


Code Tube I.D.	Standard stroke							Long stroke				L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
	Stroke range	Without magnet			Magnet			Stroke range	A	B	LS											
		A	B	LS	A	B	LS															
12	5~30	35.3	17	5	40.3	22	10	35~100	50.3	32	20	13.5	24	4.5	2.8	17	2	34	29.5	44	8	4.5
16	5~30	35.3	17	5	40.3	22	10	35~100	50.3	32	20	13.5	25.5	4.5	2.8	19	2	38	33.5	48	8	5
20	5~50	41.2	19.5	7.5	51.2	29.5	17.5	75~200	62.7	41	29	14.5	28.5	6.6	4	24	3.2	48	42	62	9.2	5.8
25	5~50	44.7	22.5	7.5	54.7	32.5	17.5	75~300	66.2	44	29	15	32.5	6.6	4	26	3.2	52	46	66	10.7	5.8

FAC

Female thread

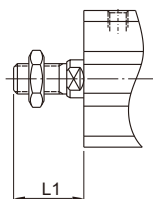
Male thread



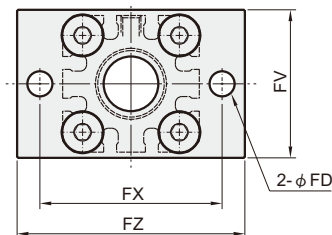
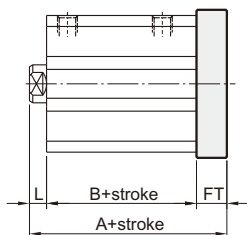
Code Tube I.D.	Standard stroke					Long stroke			FD	FT	FV	FX	FZ	L	L1
	Stroke range	Without magnet		Magnet		Stroke range	A	B							
		A	B	A	B										
12	5~30	30.5	17	35.5	22	35~100	45.5	32	4.5	5.5	25	45	55	13.5	24
16	5~30	30.5	17	35.5	22	35~100	45.5	32	4.5	5.5	30	45	55	13.5	25.5
20	5~50	34	19.5	44	29.5	75~200	55.5	41	6.6	8	39	48	60	14.5	28.5
25	5~50	37.5	22.5	47.5	32.5	75~300	59	44	6.6	8	42	52	64	15	32.5

FBC

Male thread



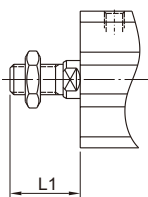
Female thread



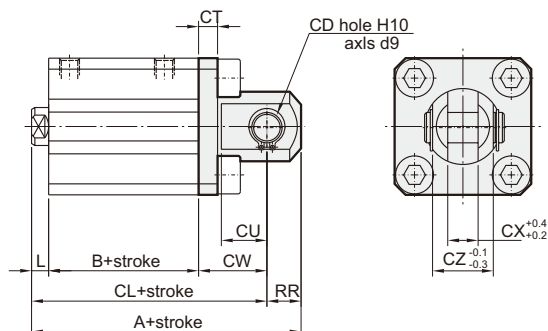
Code Tube I.D.	Standard stroke									Long stroke					FD	FT	FV	FX	FZ
	Stroke range	Without magnet				Magnet				Stroke range	A	B	L	L1					
		A	B	L	L1	A	B	L	L1										
12	5~30	26	17	3.5	14	31	22	3.5	14	35~100	51	32	13.5	24	4.5	5.5	25	45	55
16	5~30	26	17	3.5	15.5	31	22	3.5	15.5	35~100	51	32	13.5	25.5	4.5	5.5	30	45	55
20	5~50	32	19.5	4.5	18.5	42	29.5	4.5	18.5	75~200	63.5	41	14.5	28.5	6.6	8	39	48	60
25	5~50	35.5	22.5	5	22.5	45.5	32.5	5	22.5	75~300	67	44	15	32.5	6.6	8	42	52	64

CB

Male thread



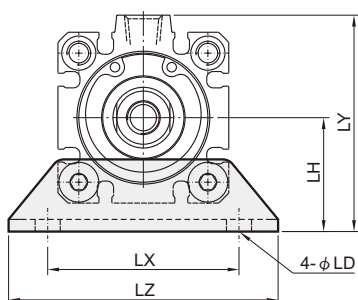
Female thread



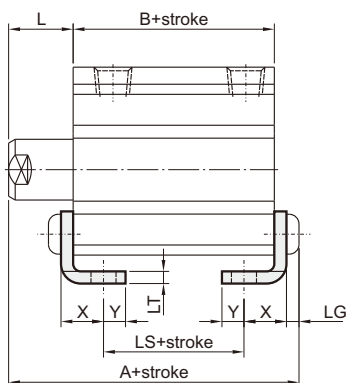
Code Tube I.D.	Standard stroke											Long stroke						CD	CT	CU	CW	CX	CZ	RR
	Stroke range	Without magnet					Magnet					Stroke range	A	B	CL	L	L1							
		A	B	CL	L	L1	A	B	CL	L	L1													
12	5~30	40.5	17	34.5	3.5	14	45.5	22	39.5	3.5	14	35~100	65.5	32	59.5	13.5	24	5	4	7	14	5	10	6
16	5~30	41.5	17	35.5	3.5	15.5	46.5	22	40.5	3.5	15.5	35~100	66.5	32	60.5	13.5	25.5	5	4	10	15	6.5	12	6
20	5~50	51	19.5	42	4.5	18.5	61	29.5	52	4.5	18.5	75~200	82.5	41	73.5	14.5	28.5	8	5	12	18	8	16	9
25	5~50	57.5	22.5	47.5	5	22.5	67.5	32.5	57.5	5	22.5	75~300	89	44	79	15	32.5	10	5	14	20	10	20	10

LB

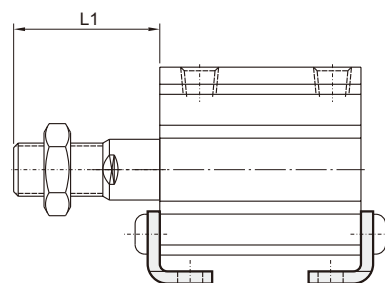
Standard stroke



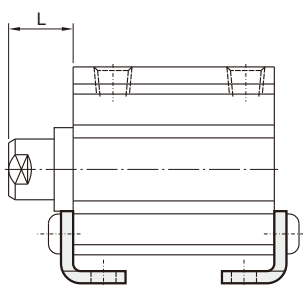
Female thread



Male thread

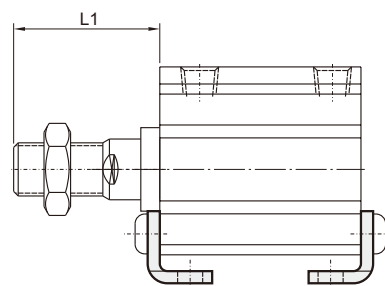


Long stroke



Female thread

Male thread

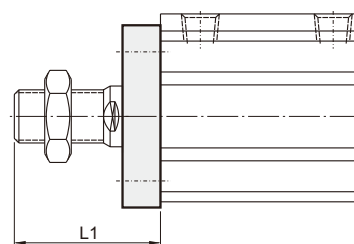
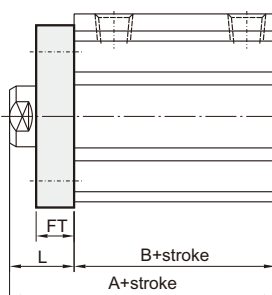
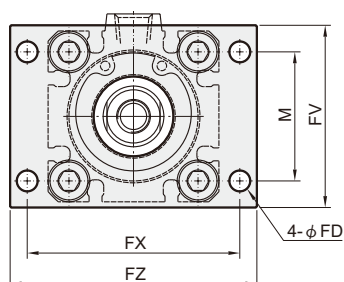


Code Tube I.D.	Standard stroke							Long stroke				L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
	Stroke range	Without magnet			Magnet			Stroke range	A	B	LS											
		A	B	LS	A	B	LS															
32	5~50	47.2	23	7	57.2	33	17	125~300	69.7	45.5	29.5	17	38.5	6.6	4	30	3.2	57	57	71	11.2	5.8
	75, 100	57.2	33	17																		
40	5~50	53.7	29.5	13.5	63.7	39.5	23.5	125~300	79.2	55	39	17	38.5	6.6	4	33	3.2	64	64	78	11.2	7
	75, 100	63.7	39.5	23.5																		
50	5~50	56.7	30.5	7.5	66.7	40.5	17.5	125~300	81.7	55.5	32.5	18	43.5	9	5	39	3.2	79	78	95	14.7	8
	75, 100	66.7	40.5	17.5																		
63	5~50	62.2	36	10	72.2	46	20	125~300	83.2	57	31	18	43.5	11	5	46	3.2	95	91.5	113	16.2	9
	75, 100	72.2	46	20																		
80	5~50	75	43.5	13.5	85	53.5	23.5	125~300	97.5	66	36	20	53.5	13	7	59	4.5	118	114	140	19.5	11
	75, 100	85	53.5	23.5																		
100	5~50	88	53	19	98	63	29	125~300	—	—	—	22	53.5	13	7	71	6	137	136	162	23	12.5
	75, 100	98	63	29																		

FAC

Female thread

Male thread

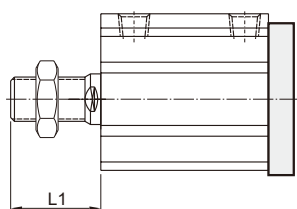


Code Tube I.D.	Standard stroke				Long stroke			FD	FT	FV	FX	FZ	L	L1	M	
	Stroke range	Without magnet		Magnet		Stroke range	A									B
		A	B	A	B											
32	5~50	40	23	50	33	125~300	62.5	45.5	5.5	8	48	56	65	17	38.5	34
	75, 100	50	33													
40	5~50	46.5	29.5	56.5	39.5	125~300	72	55	5.5	8	54	62	72	17	38.5	40
	75, 100	56.5	39.5													
50	5~50	48.5	30.5	58.5	40.5	125~300	73.5	55.5	6.6	9	67	76	89	18	43.5	50
	75, 100	58.5	40.5													
63	5~50	54	36	64	46	125~300	75	57	9	9	80	92	108	18	43.5	60
	75, 100	64	46													
80	5~50	63.5	43.5	73.5	53.5	125~300	86	66	11	11	99	116	134	20	53.5	77
	75, 100	73.5	53.5													
100	5~50	75	53	85	63	125~300	—	—	11	11	117	136	154	22	53.5	94
	75, 100	85	63													

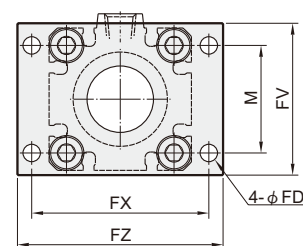
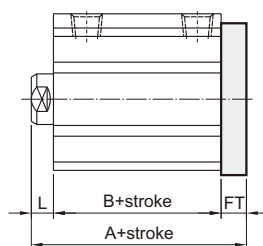
FBC

Standard stroke

Male thread

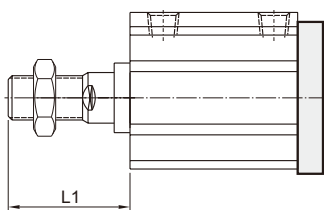


Female thread

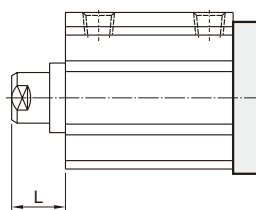


Long stroke

Male thread



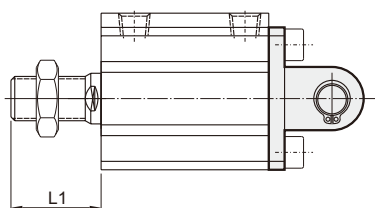
Female thread



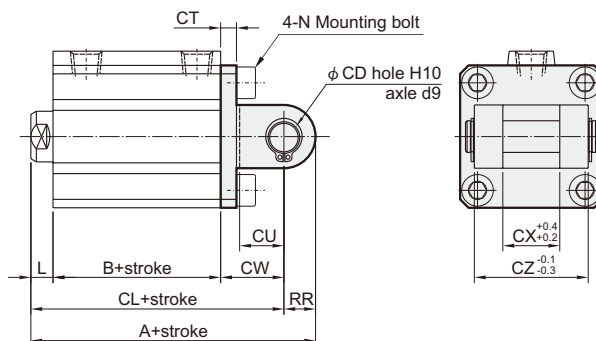
Code Tube I.D.	Standard stroke							Long stroke					FD	FT	FV	FX	FZ	M
	Stroke range	Without magnet		Magnet		L	L1	Stroke range	A	B	L	L1						
		A	B	A	B													
32	5~50	38	23	48	33	7	28.5	125~300	70.5	45.5	17	38.5	5.5	8	48	56	65	34
	75, 100	48	33															
40	5~50	44.5	29.5	54.5	39.5	7	28.5	125~300	80	55	17	38.5	5.5	8	54	62	72	40
	75, 100	54.5	39.5															
50	5~50	47.5	30.5	57.5	40.5	8	33.5	125~300	82.5	55.5	18	43.5	6.6	9	67	76	89	50
	75, 100	57.5	40.5															
63	5~50	53	36	63	46	8	33.5	125~300	84	57	18	43.5	9	9	80	92	108	60
	75, 100	63	46															
80	5~50	64.5	43.5	74.5	53.5	10	43.5	125~300	97	66	20	53.5	11	11	99	116	134	77
	75, 100	74.5	53.5															
100	5~50	76	53	86	63	12	43.5	125~300	—	—	—	—	11	11	117	136	154	94
	75, 100	86	63															

CB

Standard stroke Male thread

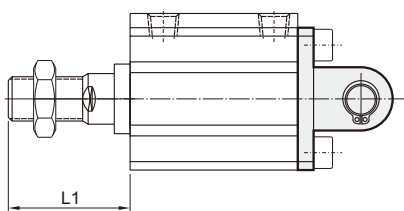


Female thread

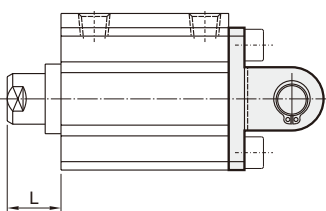


Long stroke

Male thread

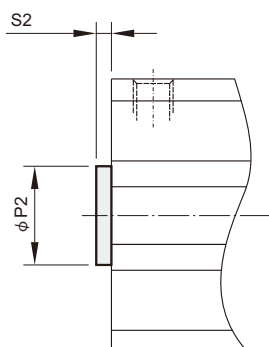


Female thread



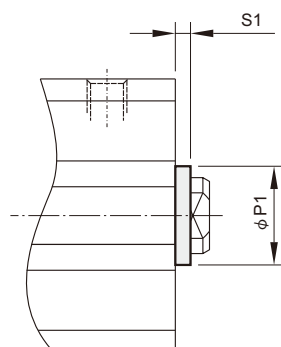
Code Tube I.D.	Standard stroke									Long stroke						CD	CT	CU	CW	CX	CZ	N	RR
	Stroke range	Without magnet			Magnet			L	L1	Stroke range	A	B	CL	L	L1								
		A	B	CL	A	B	CL																
32	5~50	60	23	50	70	33	60	7	28.5	125~300	92.5	45.5	82.5	17	38.5	10	5	14	20	18	36	M6×1.0	10
	75, 100	70	33	60																			
40	5~50	68.5	29.5	58.5	78.5	39.5	68.5	7	28.5	125~300	104	55	94	17	38.5	10	6	14	22	18	36	M6×1.0	10
	75, 100	78.5	39.5	68.5																			
50	5~50	80.5	30.5	66.5	90.5	40.5	76.5	8	33.5	125~300	115.5	55.5	101.5	18	43.5	14	7	20	28	22	44	M8×1.25	14
	75, 100	90.5	40.5	76.5																			
63	5~50	88	36	74	98	46	84	8	33.5	125~300	119	57	105	18	43.5	14	8	20	30	22	44	M10×1.5	14
	75, 100	98	46	84																			
80	5~50	109.5	43.5	91.5	119.5	53.5	101.5	10	43.5	125~300	142	66	124	20	53.5	18	10	27	38	28	56	M12×1.75	18
	75, 100	119.5	53.5	101.5																			
100	5~50	132	53	110	142	63	120	12	43.5	125~300	—	—	—	—	—	22	13	31	45	32	64	M12×1.75	22
	75, 100	142	63	120																			

F Rear flange



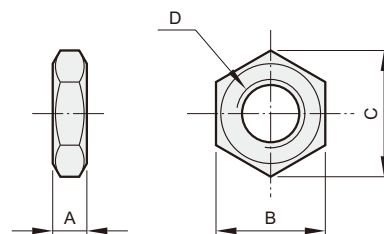
Code Tube I.D.	P2 ^{h9}	S2
12	6	1.5
16	10	1.5
20	13	2
25	15	2
32	21	2
40	28	2
50	35	2
63	35	2
80	43	2
100	59	2

RF



Code Tube I.D.	P1 ^{h9}	S1
12	15	1.5
16	20	1.5
20	13	2
25	15	2
32	21	2
40	28	2
50	35	2
63	35	2
80	43	2
100	59	2

Rod front nut



Code Tube I.D.	A	B	C	D
12	4	8	9.2	M5×0.8
16	5	10	11.5	M6×1.0
20	5	13	15	M8×1.25
25	6	17	19.6	M10×1.25
32,40	8	22	25.4	M14×1.5
50,63	11	27	31.4	M18×1.5
80	13	32	37	M22×1.5
100	16	41	47.3	M26×1.5

Pin for CB

Order example

PIN — MCJQ — 20 — CB — P

PIN

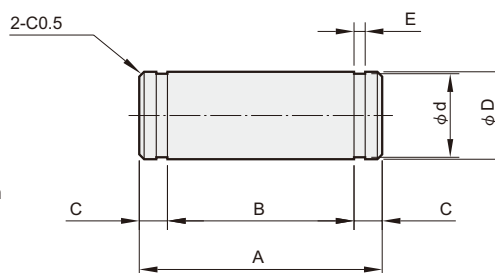
TUBE I.D.

12
16
20
25
32
40
50
63
80
100

TYPE

CB: for CB accessory

P: With split pin



Code Tube I.D.	A	B	C	ϕD^{g9}	ϕd	E	Snap ring
12	14.6	10.2	2.2	5 ^{-0.03} _{-0.06}	4.8 ⁰ _{-0.04}	0.7 ^{+0.10} ₀	STW-5
16	16.6	12.2	2.2	5 ^{-0.03} _{-0.06}	4.8 ⁰ _{-0.04}	0.7 ^{+0.10} ₀	STW-5
20	21	16.2	2.4	8 ^{-0.04} _{-0.08}	7.6 ⁰ _{-0.06}	0.9 ^{+0.10} ₀	STW-8
25	25.6	20.2	2.7	10 ^{-0.04} _{-0.08}	9.6 ⁰ _{-0.06}	1.15 ^{+0.14} ₀	STW-10
32,40	41.6	36.2	2.7	10 ^{-0.04} _{-0.08}	9.6 ⁰ _{-0.09}	1.15 ^{+0.14} ₀	STW-10
50,63	50.6	44.2	3.2	14 ^{-0.05} _{-0.10}	13.4 ⁰ _{-0.11}	1.15 ^{+0.14} ₀	STW-14
80	64	56.2	3.9	18 ^{-0.05} _{-0.10}	17.0 ⁰ _{-0.11}	1.35 ^{+0.14} ₀	STW-18
100	72	64.2	3.9	22 ^{-0.07} _{-0.12}	21.0 ⁰ _{-0.21}	1.35 ^{+0.14} ₀	STW-22