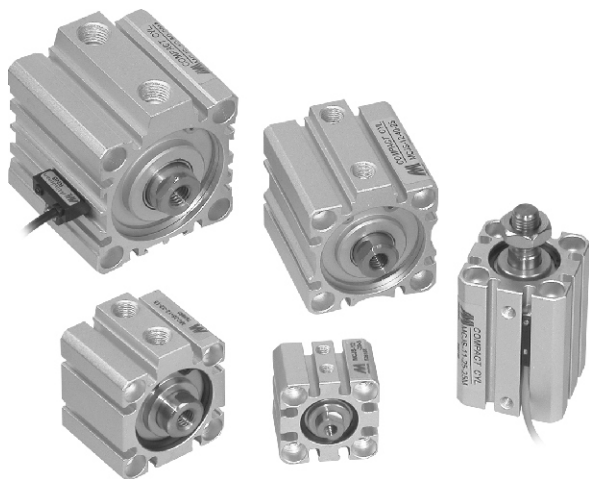


# MCJS series

## COMPACT CYLINDERS

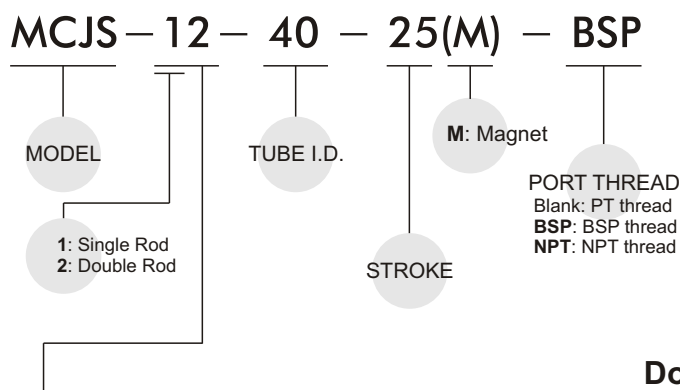


### Features:

- Ultra-compact, lightweight, space-saving type.  
Available with a comprehensive selection of bore size ( $\phi$  12mm ~  $\phi$  100mm) for the various needs.
- The highly accurate, air-driven push-pull work.
- Ideal for machine designs with small space requirements sensor switches will not protrude from switch mounting groove.
- Sensor switch mounting allows for flexible designing requirements 3 faces on  $\phi$  12 &  $\phi$  16, and all 4 faces including port side on  $\phi$  12 ~  $\phi$  100.

Model	MCJS		
Tube I.D. (mm)	12, 16, 20, 25	32, 40	50, 63, 80, 100
Port size RC(Pt)	M5	PT 1/8	PT 1/4
Medium	Air		
Operating pressure range	0.5-9.9 kgf/cm <sup>2</sup>		
Proof pressure	15 kgf/cm <sup>2</sup>		
Ambient temperature	-5~+60°C (No freezing)		
Cushion	With rubber cushion pad		
Lubrication	Not required		
Sensor switch	RCE, RCE1		RCB, RCE, RCE1

### Order example:

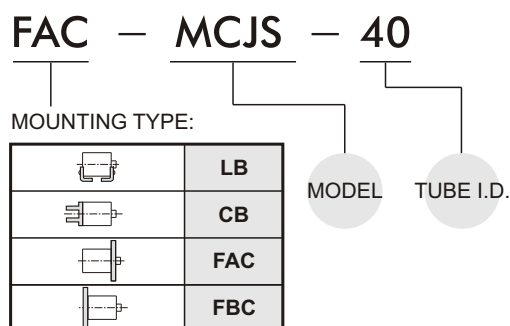


### STYLE:

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

※ Please contact us for the dimensions of dual rod style.

### Mounting accessories:



### Double acting - Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke
$\phi$ 12	5, 10, 15, 20, 25, 30	65
$\phi$ 16	5, 10, 15, 20, 25, 30	70
$\phi$ 20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	90
$\phi$ 32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	110
$\phi$ 50~100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	130

- 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)
$\phi$ 12, 16, 20, 25, 32, 40	5, 10
$\phi$ 50	10, 20

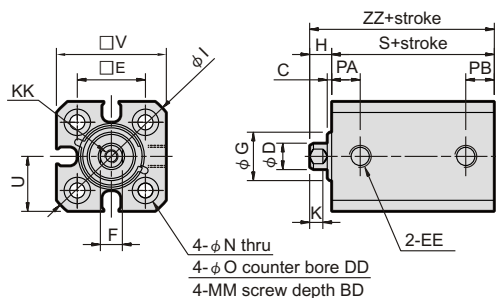
# MCJS Dimensions $\phi 12 \sim \phi 100$

## COMPACT CYLINDERS

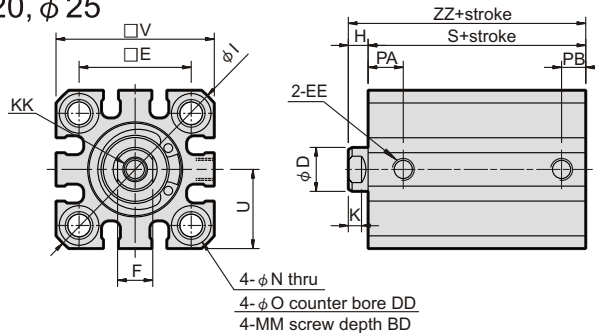


### MCJS-12

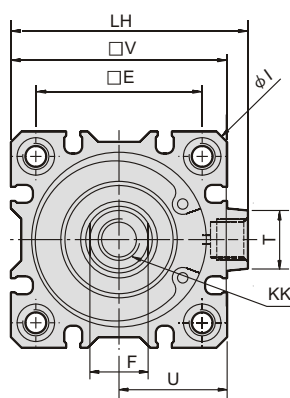
$\phi 12, \phi 16$



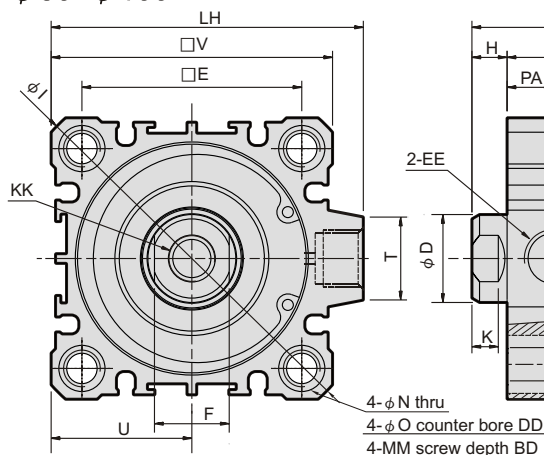
$\phi 20, \phi 25$



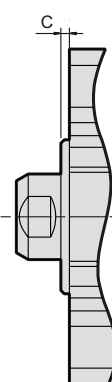
$\phi 32, \phi 40$



$\phi 50 \sim \phi 100$



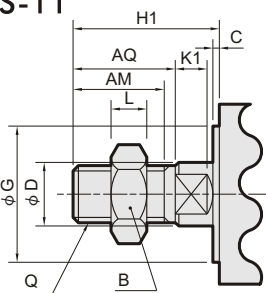
$\phi 80, \phi 100$



Long stroke  
(Without counter bore)



### MCJS-11



Code Tube I.D.	AM	AQ	B	H1	K1	L	Q
12	9	10.5	8	15.5	3	4	M5×0.8
16	9	10.5	8	15.5	3	4	M5×0.8
20	12	14	13	18.5	3	5	M8×1.25
25	15	17.5	17	22.5	3	6	M10×1.25
32	20.5	23.5	22	28.5	5	8	M14×1.5
40	20.5	23.5	22	28.5	5	8	M14×1.5
50	26	28.5	26	33.5	3	11	M18×1.5
63	26	28.5	26	33.5	3	11	M18×1.5
80	32.5	35.5	32	51	10	13	M22×1.5
100	32.5	35.5	35	55	14	14	M26×1.5

### Outer size table

Code Tube I.D.	BD	C	D	DD	E	EE	F	G	H	I	K	KK	LH	MM	N	O	PA	PB	S(※1)	T	U	V	ZZ(※1)
12	7	1	6	3.5	15.5	M5×0.8	5	11 <sup>+0.1</sup> <sub>-0.1</sub>	5	32	3	M3×0.5 Screw depth 6	-	M4×0.7	3.5	6	6.5	6.5	22 (17)	-	12.5	25	27 (22)
16	7	1.5	6	3.5	20	M5×0.8	5	11 <sup>+0.1</sup> <sub>-0.1</sub>	5.5	38	3	M3×0.5 Screw depth 6	-	M4×0.7	3.5	6	7.2	7.2	28.5(18.5)	-	14.5	29	34 (24)
20	10	-	10	7	25.5	M5×0.8	8	-	4.5	47	3	M5×0.8 Screw depth 7	-	M6×1.0	5.5	9	9	5.5	29.5(19.5)	-	18	36	34 (24)
25	10	-	12	7	28	M5×0.8	10	-	5	52	3	M6×1.0 Screw depth 12	-	M6×1.0	5.5	9	11	5.5	32.5(22.5)	-	20	40	37.5(27.5)
32	10	-	16	7	34	PT 1/8(※2)	14	-	7	60	5	M8×1.25 Screw depth 13	49.5	M6×1.0	5.5	9	10.5	7.5	33 (23)	14	22.5	45	40 (30)
40	10	-	16	7	40	PT 1/8	14	-	7	70	7	M8×1.25 Screw depth 13	57	M6×1.0	5.5	9	11	8	39.5(29.5)	14	26	52	46.5(36.5)
50	14	-	20	8	50	PT 1/4(※3)	17	-	8	86	6	M10×1.5 Screw depth 15	71	M8×1.25	6.6	11	10.5	10.5	40.5(30.5)	19	32	64	48.5(38.5)
63	18	-	20	10.5	60	PT 1/4(※4)	17	-	8	103	6	M10×1.5 Screw depth 15	84	M10×1.5	9	14	15	10.5	46 (36)	19	38.5	77	54 (44)
80	22	2.5	25	13.5	77	PT 1/4	22	45 <sup>+0.1</sup> <sub>-0.1</sub>	15.5	132	10	M16×2 Screw depth 21	104	M12×1.75	11	17.5	20	12	52 (42)	26	49	98	67.5(57.5)
100	22	2.5	30	13.5	94	PT 1/4	27	50 <sup>+0.1</sup> <sub>-0.1</sub>	19.5	156	14	M20×2.5 Screw depth 27	123.5	M12×1.75	11	17.5	22	13	57.5(47.5)	26	58.5	117	77 (67)

※1: S( ) and ZZ( ) indicate the size of that without magnet ring.

※2: Without magnet with stroke=5mm, EE=M5×0.8, PA=11.5, PB=5.5

※3: Without magnet with stroke=5mm, EE=PT1/8, PA=12, PB=8

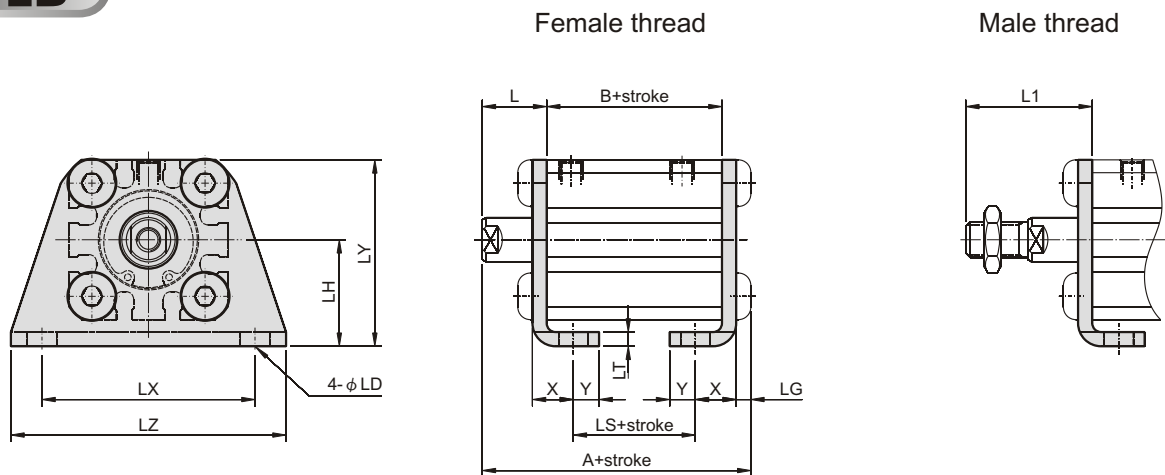
※4: Without magnet with stroke=5mm, EE=PT1/8

# MCJS Mounting accessories / Double acting $\phi 12 \sim \phi 25$

## COMPACT CYLINDERS

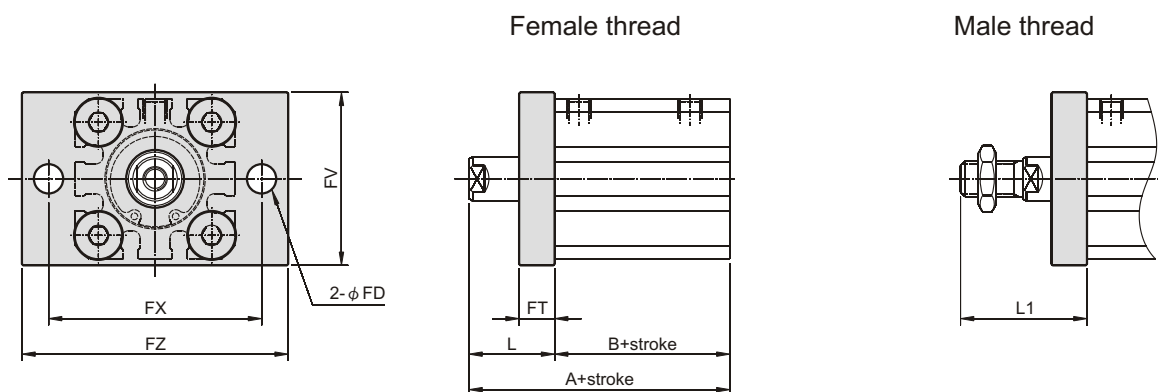


### LB



Code Tube I.D.	Without magnet			Magnet			L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
	A	B	LS	A	B	LS											
12	36.8	17	5	41.8	22	10	15	25.5	4.5	2.8	17	2	34	29.5	44	8	4.5
16	38.8	18.5	6.5	48.8	28.5	16.5	15.5	25.5	4.5	2.8	19	2	38	33.5	48	8	5
20	41.2	19.5	7.5	51.2	29.5	17.5	14.5	28.5	6.6	4	24	3.2	48	42	62	9.2	5.8
25	44.7	22.5	7.5	54.7	32.5	17.5	15	32.5	6.6	4	26	3.2	52	46	66	10.7	5.8

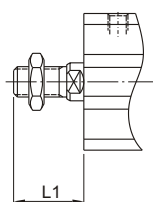
### FAC



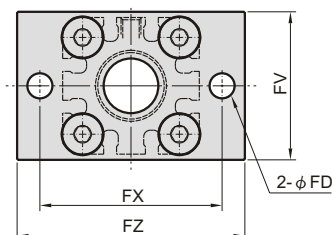
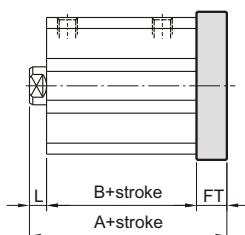
Code Tube I.D.	Without magnet		Magnet		FD	FT	FV	FX	FZ	L	L1
	A	B	A	B							
12	32	17	37	22	4.5	5.5	25	45	55	15	25.5
16	34	18.5	44	28.5	4.5	5.5	30	45	55	15.5	25.5
20	34	19.5	44	29.5	6.6	8	39	48	60	14.5	28.5
25	37.5	22.5	47.5	32.5	6.6	8	42	52	64	15	32.5

### FBC

Male thread



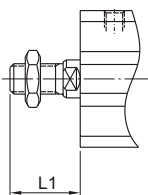
Female thread



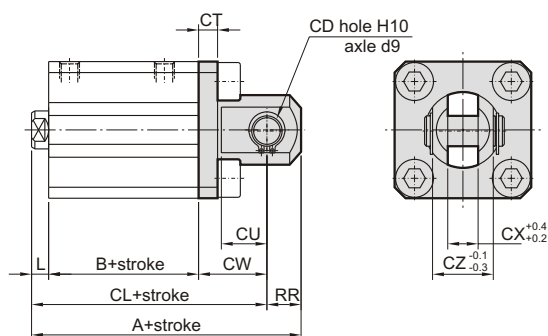
Code Tube I.D.	Without magnet		Magnet		FD	FT	FV	FX	FZ	L	L1
	A	B	A	B							
12	27.5	17	32.5	22	4.5	5.5	25	45	55	5	15.5
16	29.5	18.5	39.5	28.5	4.5	5.5	30	45	55	5.5	15.5
20	32	19.5	42	29.5	6.6	8	39	48	60	4.5	18.5
25	35.5	22.5	45.5	32.5	6.6	8	42	52	64	5	22.5

### CB

Male thread



Female thread



※Use the same CB pin with MCJQ.

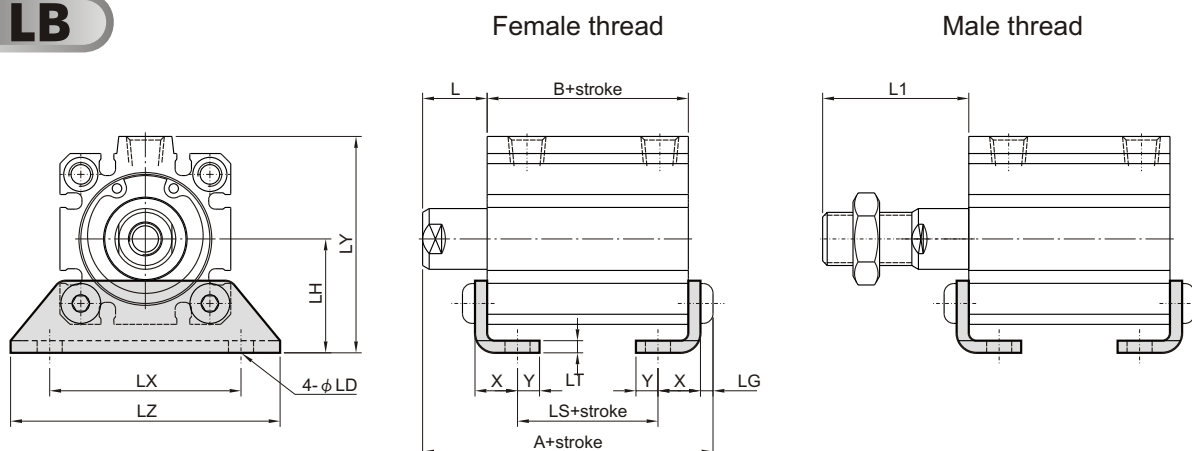
Code Tube I.D.	Without magnet			Magnet			CD	CT	CU	CW	CX	CZ	L	L1	RR
	A	B	CL	A	B	CL									
12	42	17	36	47	22	41	5	4	7	14	5	10	5	15.5	6
16	45	18.5	39	55	28.5	49	5	4	10	15	6.5	12	5.5	15.5	6
20	51	19.5	42	61	29.5	52	8	5	12	18	8	16	4.5	18.5	9
25	57.5	22.5	47.5	67.5	32.5	57.5	10	5	14	20	10	20	5	22.5	10

# MCJS Mounting accessories / Double acting $\phi 32 \sim \phi 100$

## COMPACT CYLINDERS

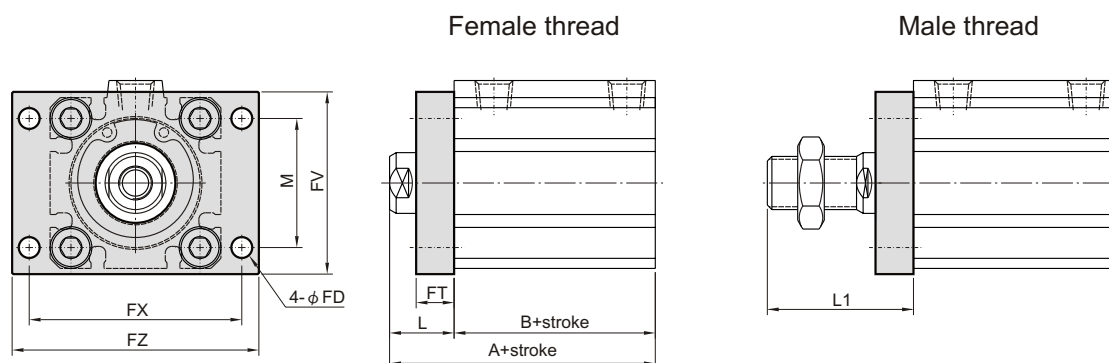


### LB



Code Tube I.D.	Without magnet			Magnet			L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
	A	B	LS	A	B	LS											
32	47.2	23	7	57.2	33	17	17	38.5	6.6	4	30	3.2	57	57	71	11.2	5.8
40	53.7	29.5	13.5	63.7	39.5	23.5	17	38.5	6.6	4	33	3.2	64	64	78	11.2	7
50	56.7	30.5	7.5	66.7	40.5	17.5	18	43.5	9	5	39	3.2	79	78	95	14.7	8
63	62.2	36	10	72.2	46	20	18	43.5	11	5	46	3.2	95	91.5	113	16.2	9
80	79	42	12	89	52	22	25.5	61	13	7	59	4.5	118	114	140	19.5	11
100	90	47.5	13.5	100	57.5	23.5	29.5	65	13	7	71	6	137	136	162	23	12.5

### FAC



Code Tube I.D.	Without magnet		Magnet		FD	FT	FV	FX	FZ	L	L1	M
	A	B	A	B								
32	40	23	50	33	5.5	8	48	56	65	17	38.5	34
40	46.5	29.5	56.5	39.5	5.5	8	54	62	72	17	38.5	40
50	48.5	30.5	58.5	40.5	6.6	9	67	76	89	18	43.5	50
63	54	36	64	46	9	9	80	92	108	18	43.5	60
80	67.5	42	77.5	52	11	11	99	116	134	25.5	61	77
100	77	47.5	87	57.5	11	11	117	136	154	29.5	65	94

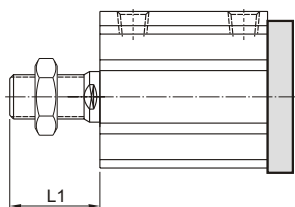
# MCJS Mounting accessories / Double acting $\phi 32 \sim \phi 100$

## COMPACT CYLINDERS

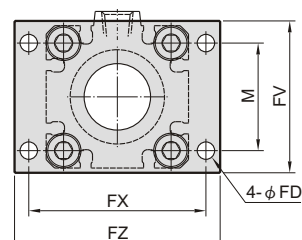
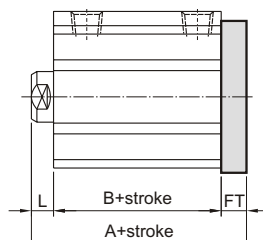


### FBC

Male thread



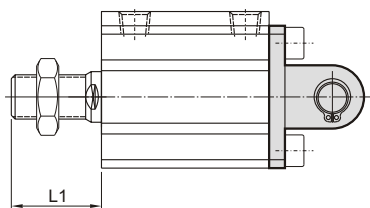
Female thread



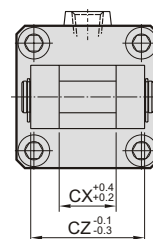
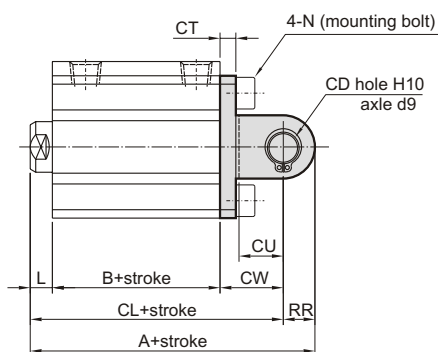
Code Tube I.D.	Without magnet		Magnet		FD	FT	FV	FX	FZ	L	L1	M
	A	B	A	B								
32	38	23	48	33	5.5	8	48	56	65	7	28.5	34
40	44.5	29.5	54.5	39.5	5.5	8	54	62	72	7	28.5	40
50	47.5	30.5	57.5	40.5	6.6	9	67	76	89	8	33.5	50
63	53	36	63	46	9	9	80	92	108	8	33.5	60
80	68.5	42	78.5	52	11	11	99	116	134	15.5	51	77
100	78	47.5	88	57.5	11	11	117	136	154	19.5	55	94

### CB

Male thread



Female thread



※Use the same CB pin with MCJQ.

Code Tube I.D.	Without magnet			Magnet			CD	CT	CU	CW	CX	CZ	L	L1	N	RR
	A	B	CL	A	B	CL										
32	60	23	50	70	33	60	10	5	14	20	18	36	7	28.5	M6×1.0	10
40	68.5	29.5	58.5	78.5	39.5	68.5	10	6	14	22	18	36	7	28.5	M6×1.0	10
50	80.5	30.5	66.5	90.5	40.5	76.5	14	7	20	28	22	44	8	33.5	M8×1.25	14
63	88	36	74	98	46	84	14	8	20	30	22	44	8	33.5	M10×1.5	14
80	113.5	42	95.5	123.5	52	105.5	18	10	27	38	28	56	15.5	51	M12×1.75	18
100	134	47.5	112	144	57.5	122	22	13	31	45	32	64	19.5	55	M12×1.75	22