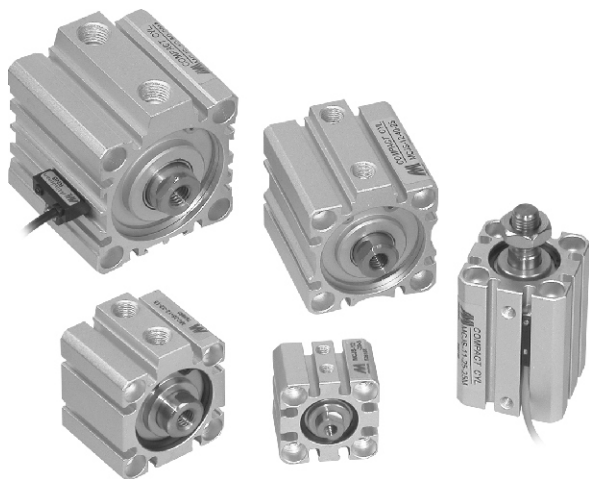


MCJS series

COMPACT CYLINDERS



Features:

- Ultra-compact, lightweight, space-saving type.
Available with a comprehensive selection of bore size (ϕ 12mm ~ ϕ 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 ϕ 12 & ϕ 16, and all 4 faces including port side on ϕ 12 ~ ϕ 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 ²		
Proof pressure	15 kgf/cm ²		
Ambient temperature	-5~+60°C (No freezing)		
Cushion	With rubber cushion pad		
Lubrication	Not required		
Sensor switch	RCE, RCE1		RCB, RCE, RCE1

Order example:

MCJS — 12 — 40 — 25(M) — FAC — BSP

MODEL

TUBE I.D.

M: Magnet

STROKE

1: Single Rod
2: Double Rod

MOUNTING TYPE:

	LB
	CB
	FAC
	FBC

PORT THREAD
Blank: PT thread
BSP: BSP thread
NPT: NPT thread

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.

Double acting - Table for standard stroke

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

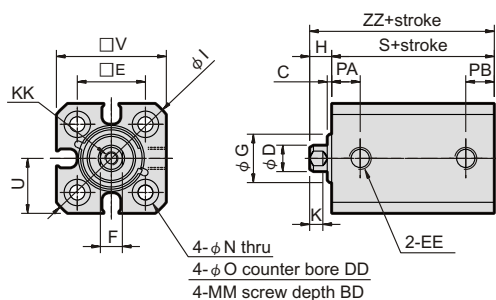
MCJS Dimensions $\phi 12 \sim \phi 100$

COMPACT CYLINDERS

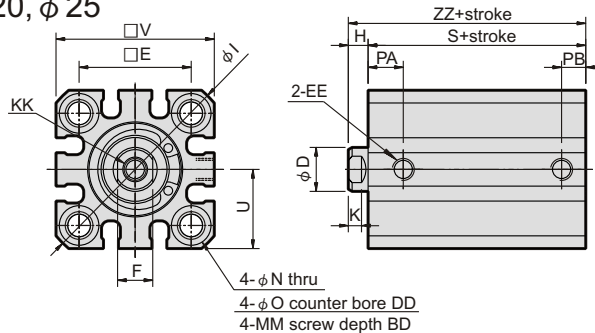


MCJS-12

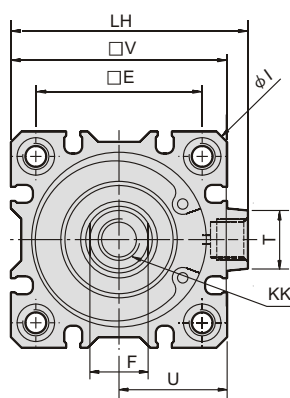
$\phi 12, \phi 16$



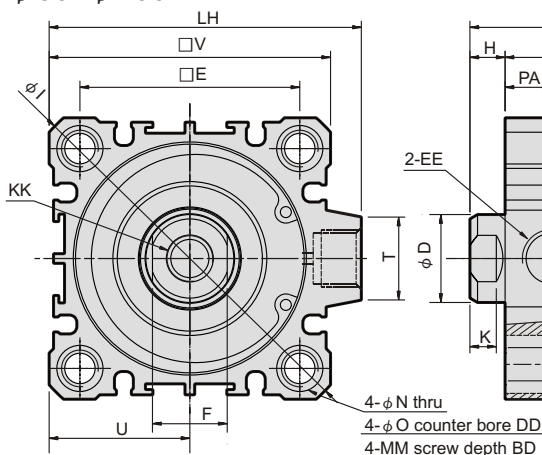
$\phi 20, \phi 25$



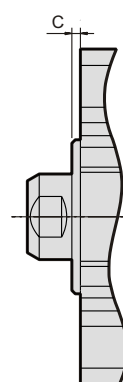
$\phi 32, \phi 40$



$\phi 50 \sim \phi 100$



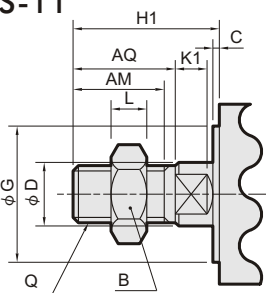
$\phi 80, \phi 100$



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 ^{+0.1} _{-0.1}	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 ^{+0.1} _{-0.1}	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 ^{+0.1} _{-0.1}	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 ^{+0.1} _{-0.1}	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 Double acting $\phi 12 \sim \phi 25$

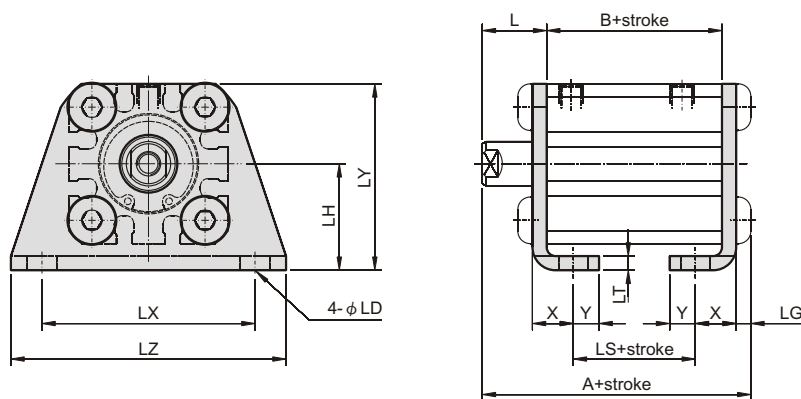
COMPACT CYLINDERS



LB

Female thread

Male thread

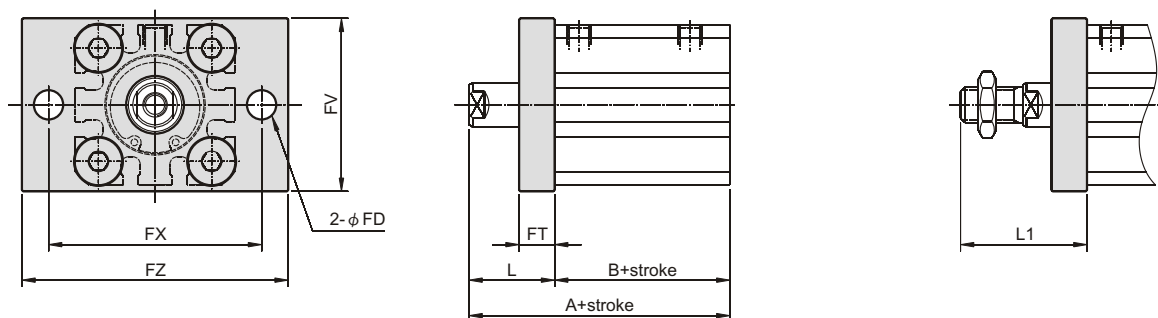


Code Tube I.D.	Without magnet			Magnet			L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
	A	B	LS	A	B	LS											
12	36.8	17	5	41.8	22	10	15	25.5	4.5	2.8	17	2	34	29.5	44	8	4.5
16	38.8	18.5	6.5	48.8	28.5	16.5	15.5	25.5	4.5	2.8	19	2	38	33.5	48	8	5
20	41.2	19.5	7.5	51.2	29.5	17.5	14.5	28.5	6.6	4	24	3.2	48	42	62	9.2	5.8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

Female thread

Male thread



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

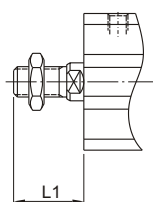
MCJS Double acting $\phi 12 \sim \phi 25$

COMPACT CYLINDERS

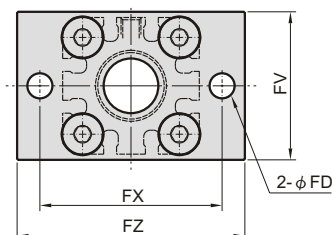
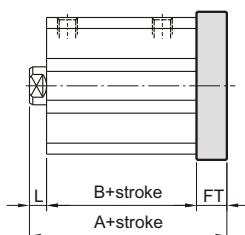


FBC

Male thread



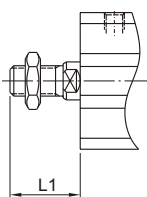
Female thread



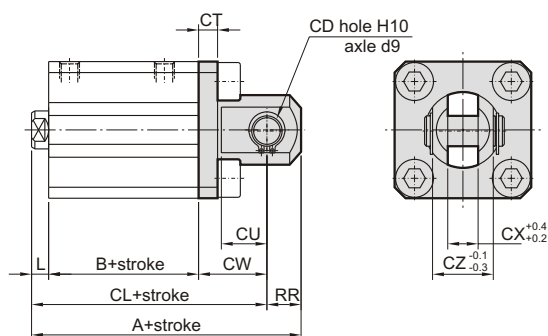
Code Tube I.D.	Without magnet		Magnet		FD	FT	FV	FX	FZ	L	L1
	A	B	A	B							
12	27.5	17	32.5	22	4.5	5.5	25	45	55	5	15.5
16	29.5	18.5	39.5	28.5	4.5	5.5	30	45	55	5.5	15.5
20	32	19.5	42	29.5	6.6	8	39	48	60	4.5	18.5
25	35.5	22.5	45.5	32.5	6.6	8	42	52	64	5	22.5

CB

Male thread



Female thread



※Use the same CB pin with MCJQ.

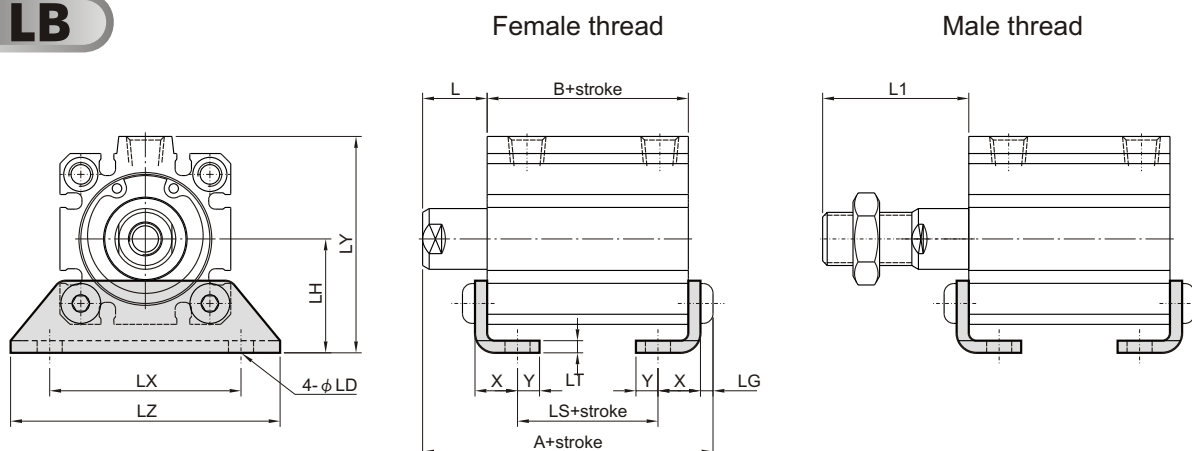
Code Tube I.D.	Without magnet			Magnet			CD	CT	CU	CW	CX	CZ	L	L1	RR
	A	B	CL	A	B	CL									
12	42	17	36	47	22	41	5	4	7	14	5	10	5	15.5	6
16	45	18.5	39	55	28.5	49	5	4	10	15	6.5	12	5.5	15.5	6
20	51	19.5	42	61	29.5	52	8	5	12	18	8	16	4.5	18.5	9
25	57.5	22.5	47.5	67.5	32.5	57.5	10	5	14	20	10	20	5	22.5	10

MCJS Double acting $\phi 32 \sim \phi 100$

COMPACT CYLINDERS

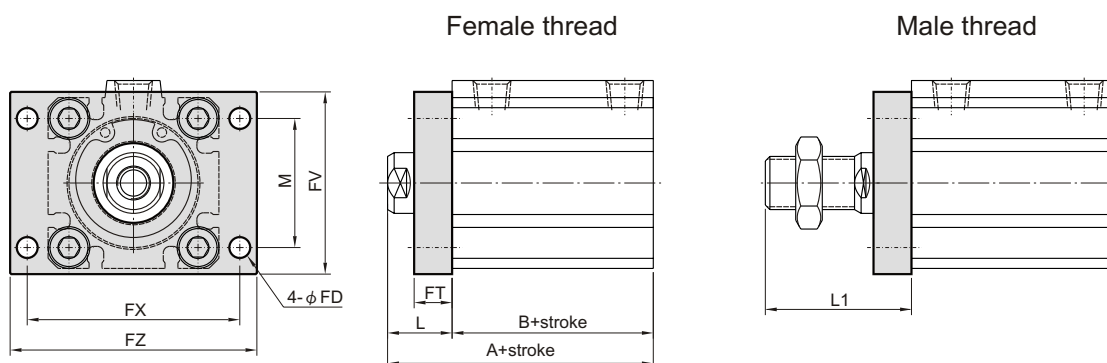


LB



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

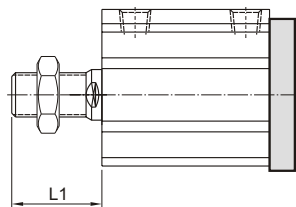
MCJS Double acting $\phi 32 \sim \phi 100$

COMPACT CYLINDERS

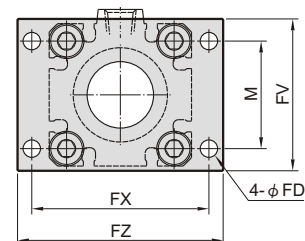
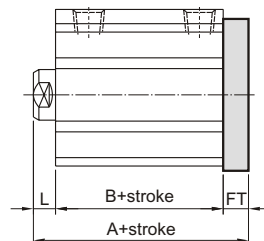


FBC

Male thread



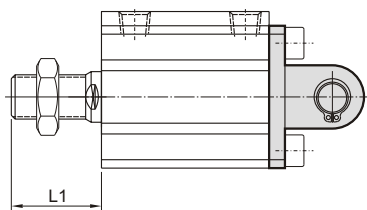
Female thread



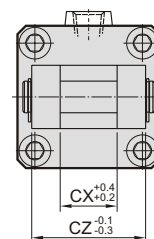
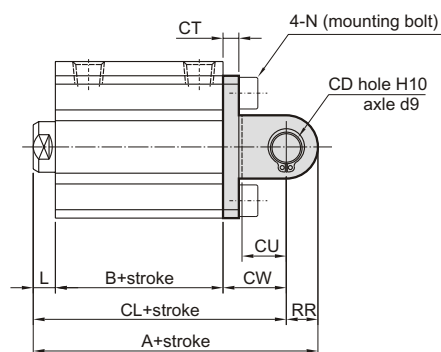
Code Tube I.D.	Without magnet		Magnet		FD	FT	FV	FX	FZ	L	L1	M
	A	B	A	B								
32	38	23	48	33	5.5	8	48	56	65	7	28.5	34
40	44.5	29.5	54.5	39.5	5.5	8	54	62	72	7	28.5	40
50	47.5	30.5	57.5	40.5	6.6	9	67	76	89	8	33.5	50
63	53	36	63	46	9	9	80	92	108	8	33.5	60
80	68.5	42	78.5	52	11	11	99	116	134	15.5	51	77
100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