MCCG series

ROUND CYLINDERS

Specification:

Model	MCCG					
Acting type	Double acting					
Tube I.D. (mm)	20	25	32	40	50	63
Port size Rc(PT)	PT 1/8				PT 1/4	
Medium	Air					
Max operating pressure	9.9 kgf/cm^2					
Min operating pressure	0.5 kgf/cm^2					
Proof pressure	15 kgf/cm^2					
Stroke length tolerance	1~1000 ST:$^{+1.4}_{-0mm}$					
Ambient temperature	−5~+60℃ (No freezing)					
Lubrication	Not required					
Available speed range	50~500 mm/sec					
Cushion	With rubber cushion pad					
Sensor switch	RCA					
Sensor switch holder	BGA20	BGA25	BGA32	BGA40	BGA50	BGA63

Table for standard stroke

Tube I.D.(mm)	Stroke (mm)
ϕ20	25, 50, 75, 100, 125, 150, 200
ϕ25, 32, 40, ϕ50, 63	25, 50, 75, 100, 125, 150, 200, 250, 300

Order example:

MCCG − 11 − 40 − 100(M) − LB − BSP

- MCCG: MODEL
- 11: **1**: Single Rod; STYLE:

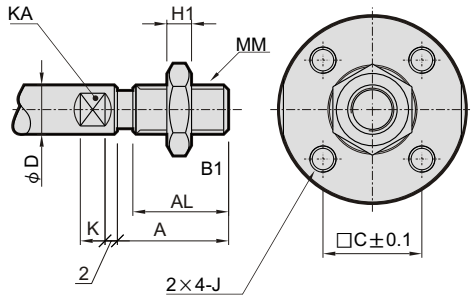
Code		Symbol	Description
1	**1**		Double acting / Male thread

- 40: TUBE I.D.
- 100: STROKE
- (M): **M**: Magnet
- LB: MOUNTING TYPE

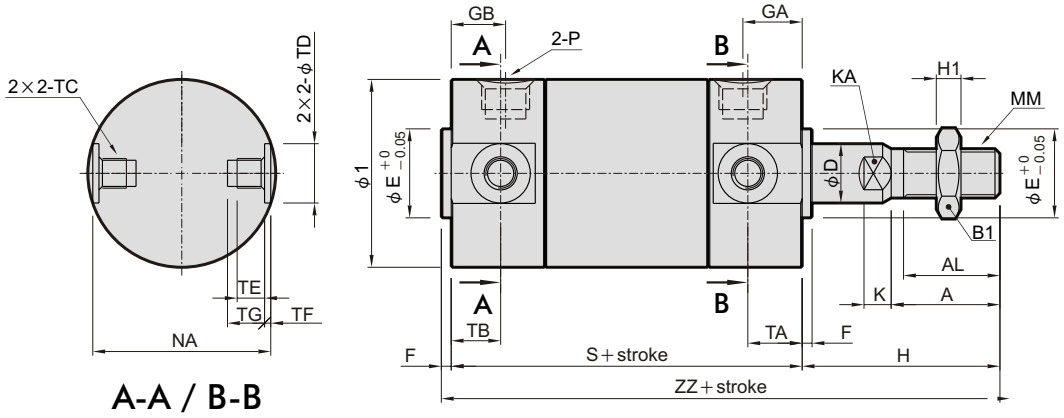
	LB
	CB
	SDB
	CB+SDB
	FAC
	FBC

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

ϕ20, ϕ25



ϕ32~ϕ63

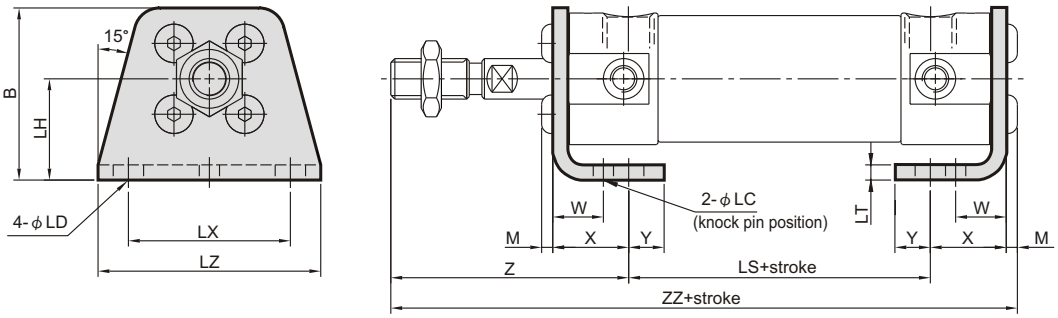


unit: mm

Code / Tube I.D.	Standard stroke	A	AL	B1	C	D	E	F	GA	GB	H	H1	I	J	K	KA	MM	NA	P	S
20	~200	18	15.5	13	14	8	12	2	12	12	35	5	26	M4×0.7×7 depth	4	6	M8×1.25	24	PT 1/8	69
25	~300	22	19.5	17	16.5	10	14	2	12	12	40	6	31	M5×0.8×7.5 depth	5	8	M10×1.25	29	PT 1/8	69
32	~300	22	19.5	17	20	12	18	2	12	11	40	6	38	M5×0.8×8 depth	5.5	10	M10×1.25	36	PT 1/8	71
40	~300	30	27	22	26	16	25	2	13	12	50	8	47	M6×1.0×12 depth	6	14	M14×1.5	44	PT 1/8	78
50	~300	35	32	27	32	20	30	2	14	13	58	11	58	M8×1.25×16 depth	7	18	M18×1.5	55	PT 1/4	90
63	~300	35	32	27	38	20	32	2	14	13	58	11	72	M10×1.5×16 depth	7	18	M18×1.5	69	PT 1/4	90

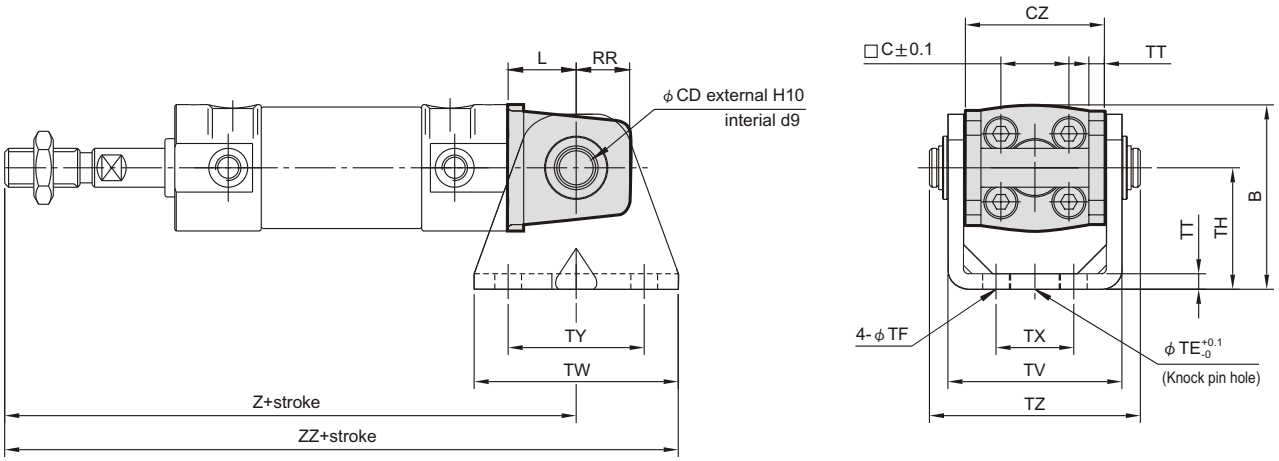
Code / Tube I.D.	TA	TB	TC	TD H9	TE	TF	TG	ZZ
20	11	11	M5×0.8	$8^{+0.036}_{-0}$	4	0.5	5.5	106
25	11	11	M6×0.75	$10^{+0.036}_{-0}$	5	1	6.5	111
32	11	10	M8×1.0	$12^{+0.043}_{-0}$	5.5	1.25	7.5	113
40	12	10	M10×1.25	$14^{+0.043}_{-0}$	6	1.25	8.5	130
50	13	12	M12×1.25	$16^{+0.043}_{-0}$	7.5	2	10	150
63	13	12	M14×1.5	$18^{+0.043}_{-0}$	11.5	3	14.5	150

LB



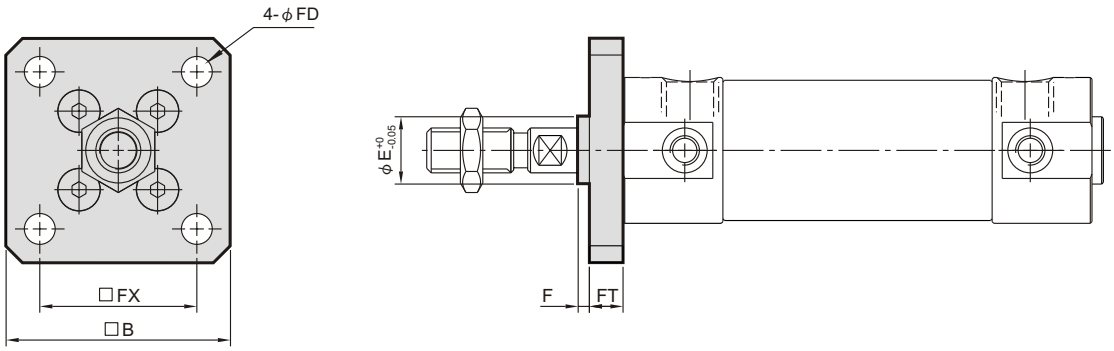
Code / Tube I.D.	B	LC	LD	LH	LS	LT	LX	LZ	M	W	X	Y	Z	ZZ
20	34	4	6	20	45	3	32	44	2.2	10	15	7	47	109.2
25	38.5	4	6	22	45	3	36	49	2.8	10	15	7	52	114.8
32	45	4	6.6	25	45	3	44	58	2.8	10	16	8	53	116.8
40	54.5	4	6.6	30	51	3	54	71	3.3	10	16.5	8.5	63.5	134.3
50	70.5	5	9	40	55	4.5	66	86	4.4	17.5	22	11	75.5	156.9
63	82.5	5	11	45	55	4.5	82	106	5.5	17.5	22	13	75.5	158

CB

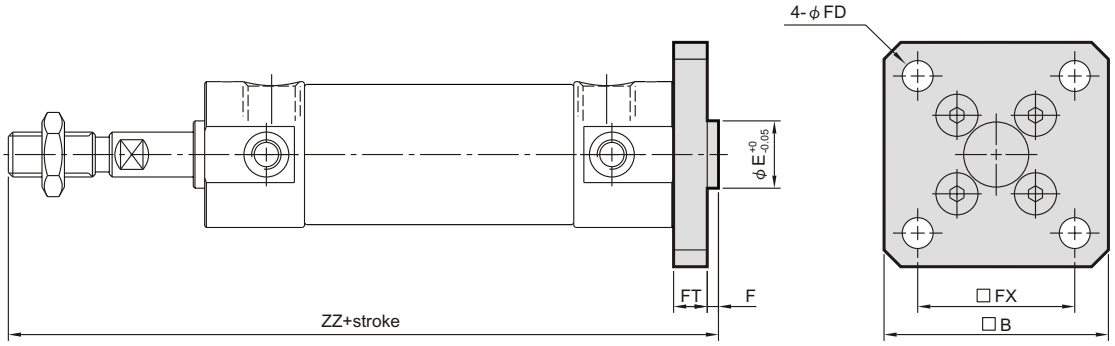


Code / Tube I.D.	B	CD	CZ	L	RR	TE	TF	TH	TT	TV	TW	TX	TY	TZ	Z	ZZ
20	38	8	29	14	11	10	5.5	25	3.2	35.8	42	16	28	43.4	118	139
25	45.5	10	33	16	13	10	5.5	30	3.2	39.8	42	20	28	48	125	146
32	54	12	40	20	15	10	6.6	35	4.5	49.4	48	22	28	59.4	131	155
40	63.5	14	49	22	18	10	6.6	40	4.5	58.4	56	30	30	71.4	150	178
50	79	16	60	25	20	20	9	50	6	72.4	64	36	36	86	173	205
63	96	18	74	30	22	20	11	60	8	90.4	74	46	46	105.4	178	215

FAC



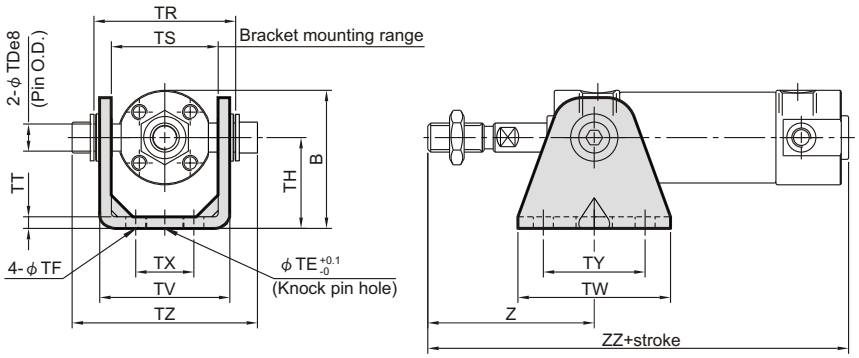
FBC



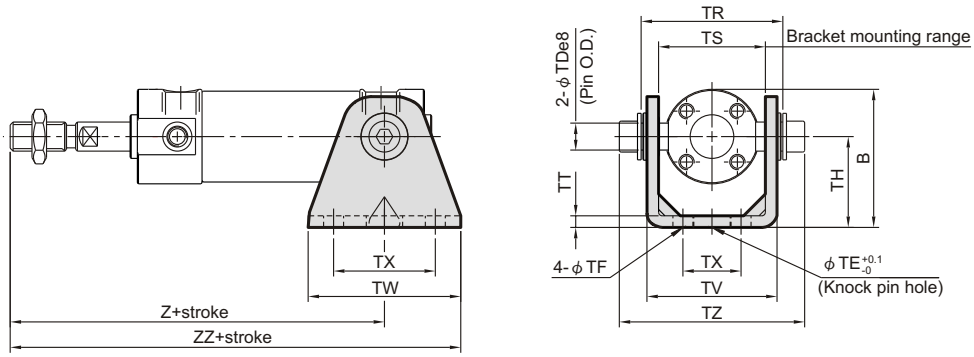
Code / Tube I.D.	B	E	F	FX	FD	FT	ZZ
20	40	12	2	28	5.5	6	112
25	44	14	2	32	5.5	7	118
32	53	18	2	38	6.6	7	120
40	61	25	2	46	6.6	8	138
50	76	30	2	58	9	9	159
63	92	32	2	70	11	9	159

SDB

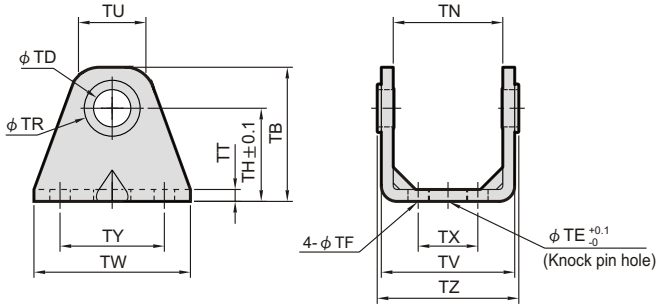
Front trunnion



Rear trunnion



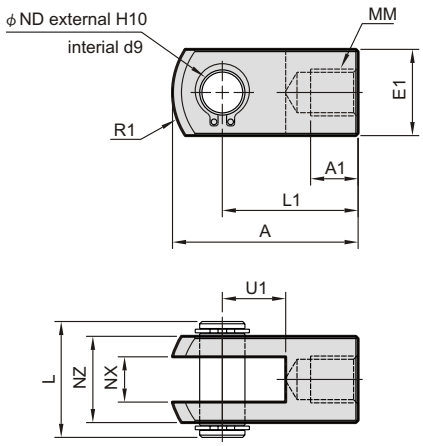
Code / Tube I.D.	B	TDe8	TE	TF	TH	TR	TS	TT	TV	TW	TX	TY	TZ	Front	Rear	
														Z	Z	ZZ
20	38	8 $^{-0.025}_{-0.047}$	10	5.5	25	39	28	3.2	35.8	42	16	28	47.6	46	93	114
25	45.5	10 $^{-0.025}_{-0.047}$	10	5.5	30	43	33	3.2	39.8	42	20	28	53	51	98	119
32	54	12 $^{-0.032}_{-0.059}$	10	6.6	35	54.5	40	4.5	49.4	48	22	28	67.7	51	101	125
40	63.5	14 $^{-0.032}_{-0.059}$	10	6.6	40	65.5	49	4.5	58.4	56	30	30	78.7	62	118	146
50	79	16 $^{-0.032}_{-0.059}$	20	9	50	80	60	6	72.4	64	36	36	98.6	71	136	168
63	96	18 $^{-0.032}_{-0.059}$	20	11	60	98	74	8	90.4	74	46	46	119.2	71	136	173



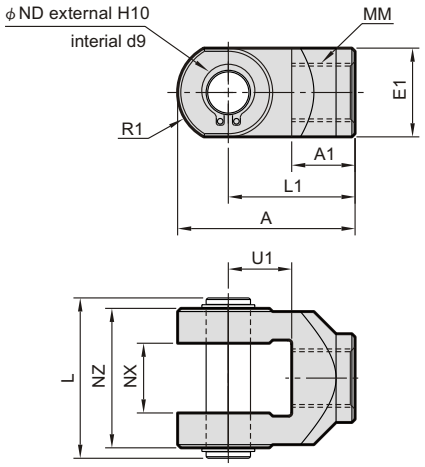
Code / Tube I.D.	TB	TD	TE	TF	TH	TN	TR	TT	TU	TV	TW	TX	TY	TZ	Applicable pin O.D.
20	36	8	10	5.5	25	(29.3)	13	3.2	18.1	35.8	42	16	28	38.3	8d9 $^{-0.040}_{-0.076}$
25	43	10	10	5.5	30	(33.1)	15	3.2	20.7	39.8	42	20	28	42.1	10d9 $^{-0.040}_{-0.076}$
32	50	12	10	6.6	35	(40.4)	17	4.5	23.6	49.4	48	22	28	53.8	12d9 $^{-0.050}_{-0.093}$
40	58	14	10	6.6	40	(49.2)	21	4.5	27.3	58.4	56	30	30	64.6	14d9 $^{-0.050}_{-0.093}$
50	70	16	20	9	50	(60.4)	24	6	29.7	72.4	64	36	36	79.2	16d9 $^{-0.050}_{-0.093}$
63	82	18	20	11	60	(74.6)	26	8	34.3	90.4	74	46	46	97.2	18d9 $^{-0.050}_{-0.093}$

Y Connector

ϕ20~ϕ32



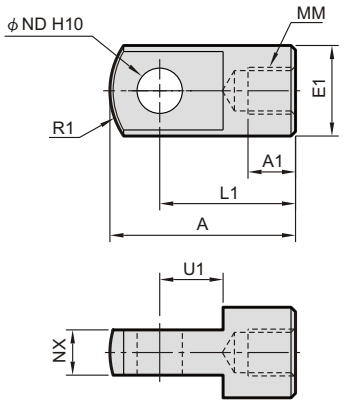
ϕ40~ϕ63



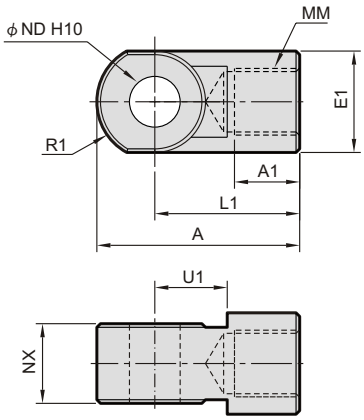
Code / Tube I.D.	A	A1	E1	L	L1	MM	R1	U1	ND	NX	NZ
20	34	8.5	□16	21	25	M8×1.25	10.3	11.5	8	$8^{+0.4}_{+0.2}$	16
25,32	41	10.5	□20	25.6	30	M10×1.25	12.8	14	10	$10^{+0.4}_{+0.2}$	20
40	42	16	ϕ22	41.6	30	M14×1.5	12	14	10	$18^{+0.5}_{+0.3}$	36
50,63	56	20	ϕ28	50.6	40	M18×1.5	16	20	14	$22^{+0.5}_{+0.3}$	44

I Connector

ϕ20~ϕ32

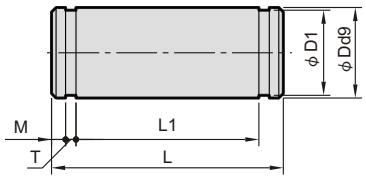


ϕ40~ϕ63



Code / Tube I.D.	A	A1	E1	L1	MM	R1	U1	ND_{H10}	NX
20	34	8.5	ϕ16	25	M8×1.25	10.3	11.5	$8^{+0.058}_{0}$	$8^{-0.2}_{-0.4}$
25,32	41	10.5	ϕ20	30	M10×1.25	12.8	14	$10^{+0.058}_{0}$	$10^{-0.2}_{-0.4}$
40	42	14	ϕ22	30	M14×1.5	12	14	$10^{+0.058}_{0}$	$18^{-0.3}_{-0.5}$
50,63	56	18	ϕ28	40	M18×1.5	16	20	$14^{+0.070}_{0}$	$22^{-0.3}_{-0.5}$

Pin



for CB

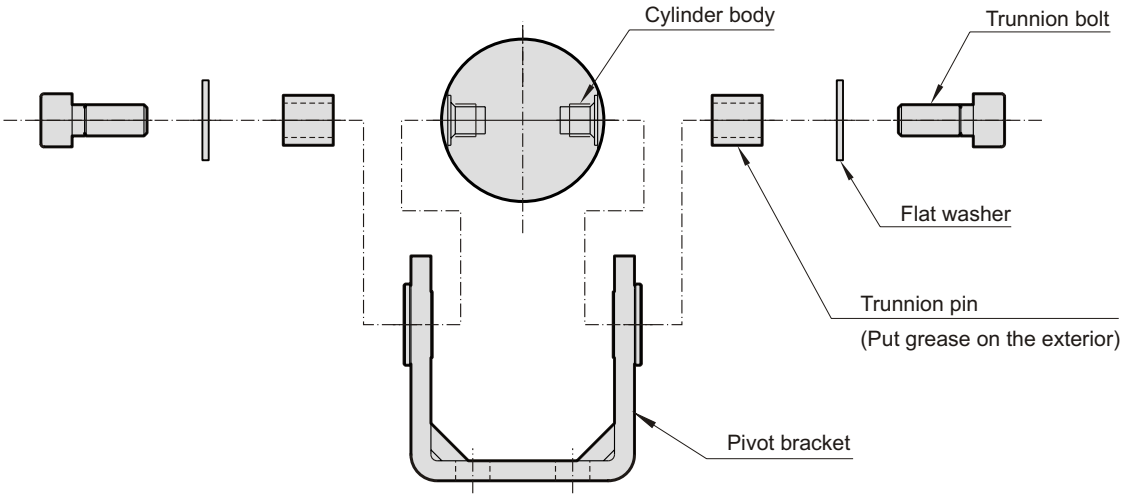
Code / Tube I.D.	Dd9	D1	L	L1	M	T	Snap ring
20	$8^{-0.040}_{-0.076}$	7.6	43.4	38.6	1.5	0.9	STW-8
25	$10^{-0.040}_{-0.076}$	9.6	48	42.6	1.55	1.15	STW-10
32	$12^{-0.050}_{-0.093}$	11.5	59.4	54	1.55	1.15	STW-12
40	$14^{-0.050}_{-0.093}$	13.4	71.4	65	2.05	1.15	STW-14
50	$16^{-0.050}_{-0.093}$	15.2	86	79.6	2.05	1.15	STW-16
63	$18^{-0.050}_{-0.093}$	17.0	105.4	97.8	2.45	1.35	STW-18

for Y & I connector

Code / Tube I.D.	Dd9	D1	L	L1	M	T	Snap ring
20	$8^{-0.04}_{-0.08}$	7.6	21	16.2	1.5	0.9	STW-8
25,32	$10^{-0.04}_{-0.08}$	9.6	25.6	20.2	1.55	1.15	STW-10,12
40	$12^{-0.04}_{-0.08}$	9.6	41.6	36.2	1.55	1.15	STW-14
50,63	$14^{-0.05}_{-0.09}$	13.4	50.6	44.2	2.05	1.15	STW-16,18

Trunnion

Follow the procedures below when mounting a pivot bracket on the trunnion.



Clevis

Follow the procedures below when mounting a pivot bracket on the clevis.