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) − BSP

- MCCG: MODEL
- 11: **1**: Single Rod
- 40: TUBE I.D.
- 100: STROKE
- (M): **M**: Magnet
- BSP: PORT THREAD
  Blank: PT thread
  BSP: BSP thread
  NPT: NPT thread

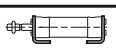
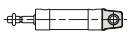
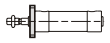
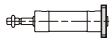
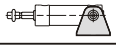
STYLE:

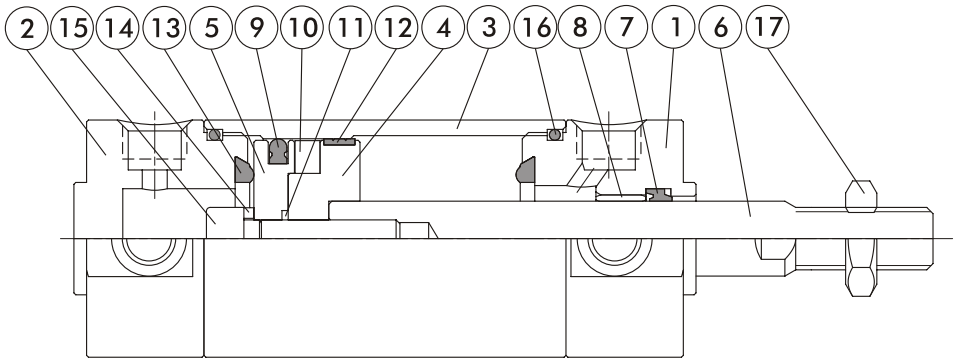
Code		Symbol	Description
1	**1**		Double acting / Male thread

Mounting accessories:

FAC − MCCG − 40

- FAC: MOUNTING TYPE
- MCCG: MODEL
- 40: TUBE I.D.

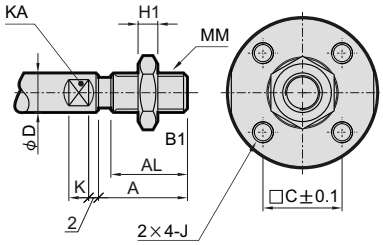
	**LB**
	**CB**
	**FAC**
	**FBC**
	**SDB**
	**CB+SDB**

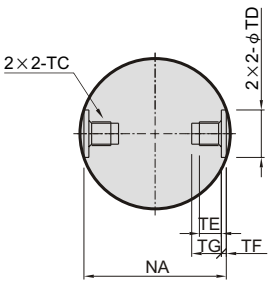


Material

No.	Part name	Material
1	Rod cover	Aluminum alloy
2	Head cover	Aluminum alloy
3	Tube	Aluminum alloy
4	Piston-R	Aluminum alloy
5	Piston-H	Aluminum alloy
6	Piston rod	Carbon steel
7	Rod packing	NBR
8	Rod bush	Copper
9	Pistion packing	NBR
10	Magnet ring	Magnet material
11	Piston gasket	NBR
12	Wear ring	Teflon
13	Cushion gasket	NBR
14	Spring washer	Spring steel
15	Piston screw	SCM
16	Cover ring	NBR
17	Rod front nut	Carbon steel

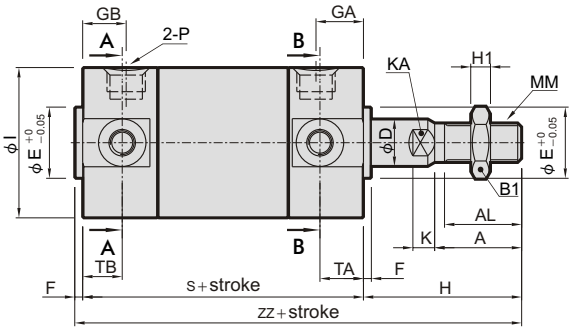
ϕ20, ϕ25





A-A / B-B

ϕ32~ϕ63



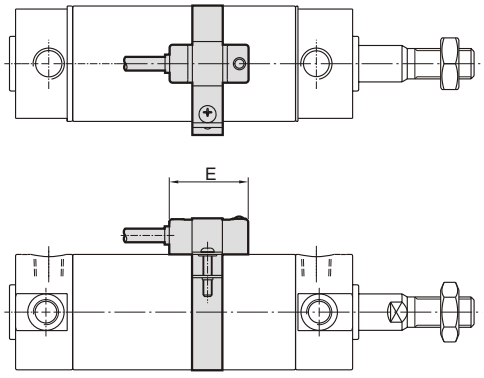
unit: mm

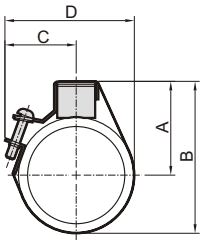
Code / Tube I.D.	A	AL	B1	C	D	E	F	GA	GB	H	H1	I	J	K	KA	MM	NA	P	S	TA	TB
20	18	15.5	13	14	8	12	2	12	12	35	5	26	M4×0.7×7 深	4	6	M8×1.25	24	PT 1/8	69	11	11
25	22	19.5	17	16.5	10	14	2	12	12	40	6	31	M5×0.8×7.5 深	5	8	M10×1.25	29	PT 1/8	69	11	11
32	22	19.5	17	20	12	18	2	12	11	40	6	38	M5×0.8×8 深	5.5	10	M10×1.25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

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

■ Installation of sensor switch

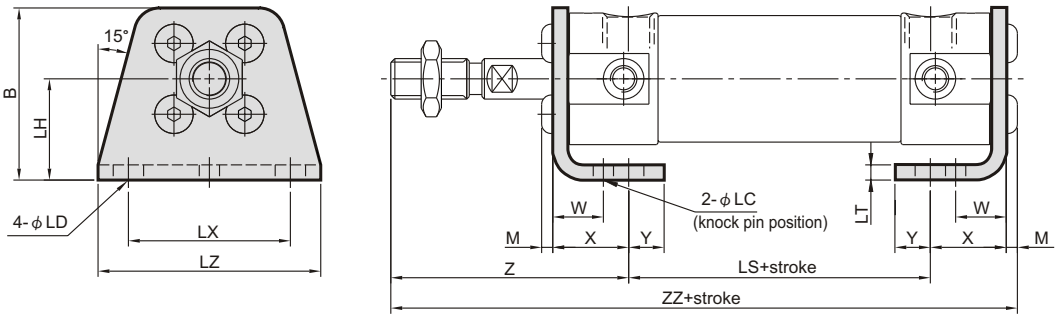
Sensor switch: RCA
Sensor switch band: BGA**





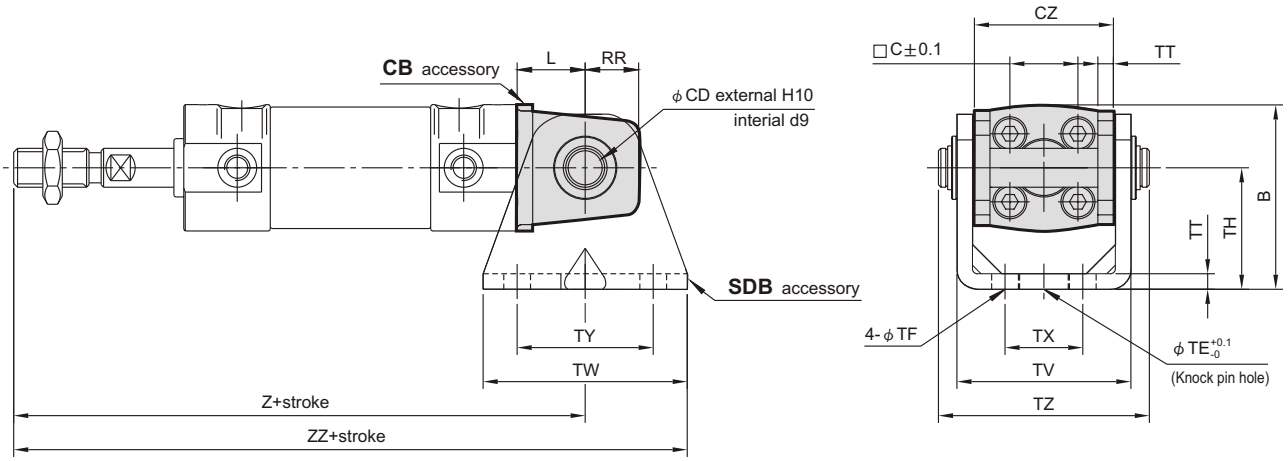
Code / Tube I.D.	A	B	C	D	E
20	18	31	25	38	26
25	20	35	27	42	26
32	24	43	31	50	26
40	29	53	36	60	26
50	34	63	41	70	26
63	41	77	48	84	26

LB



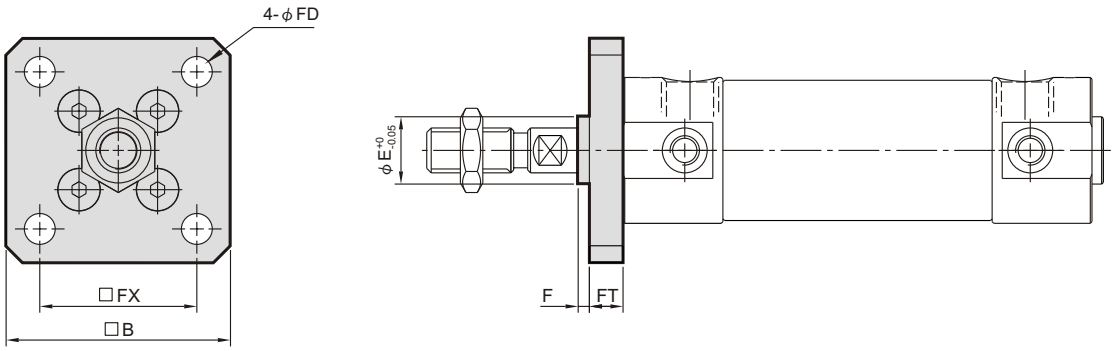
Code / Tube I.D	B	LC	LD	LH	LS	LT	LX	LZ	M	W	X	Y	Z	ZZ
20	34	4	6	20	45	3	32	44	2.2	10	15	7	47	109.2
25	38.5	4	6	22	45	3	36	49	2.8	10	15	7	52	114.8
32	45	4	6.6	25	45	3	44	58	2.8	10	16	8	53	116.8
40	54.5	4	6.6	30	51	3	54	71	3.3	10	16.5	8.5	63.5	134.3
50	70.5	5	9	40	55	4.5	66	86	4.4	17.5	22	11	75.5	156.9
63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

CB SDB+Pin (Extra purchase)

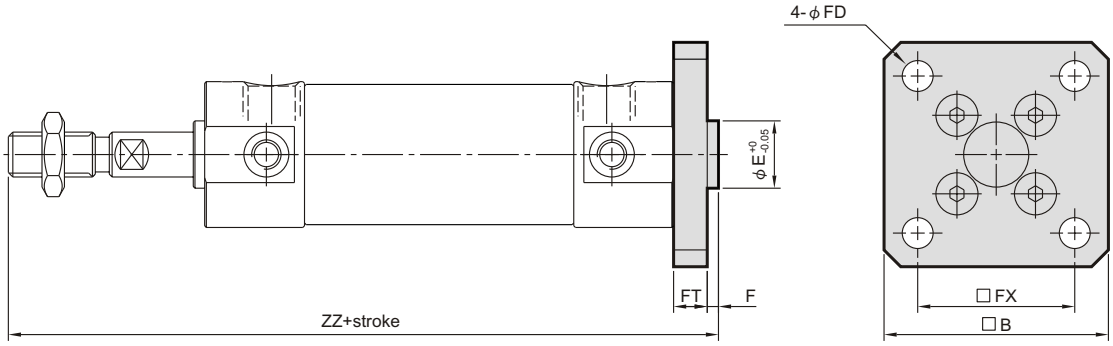


Code / Tube I.D	B	CD	CZ	L	RR	TE	TF	TH	TT	TV	TW	TX	TY	TZ	Z	ZZ
20	38	8	29	14	11	10	5.5	25	3.2	35.8	42	16	28	43.4	118	139
25	45.5	10	33	16	13	10	5.5	30	3.2	39.8	42	20	28	48	125	146
32	54	12	40	20	15	10	6.6	35	4.5	49.4	48	22	28	59.4	131	155
40	63.5	14	49	22	18	10	6.6	40	4.5	58.4	56	30	30	71.4	150	178
50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



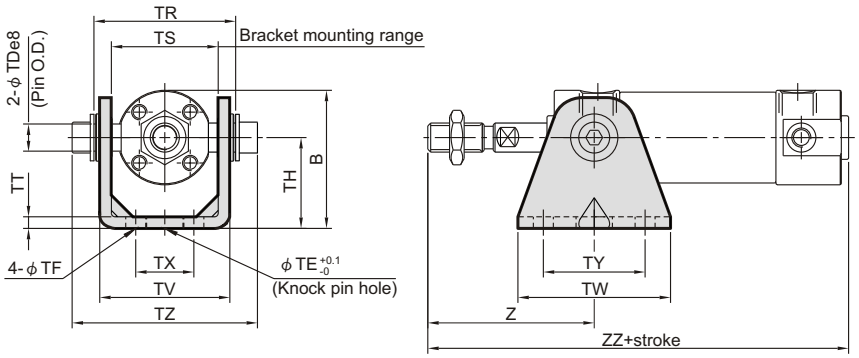
FBC



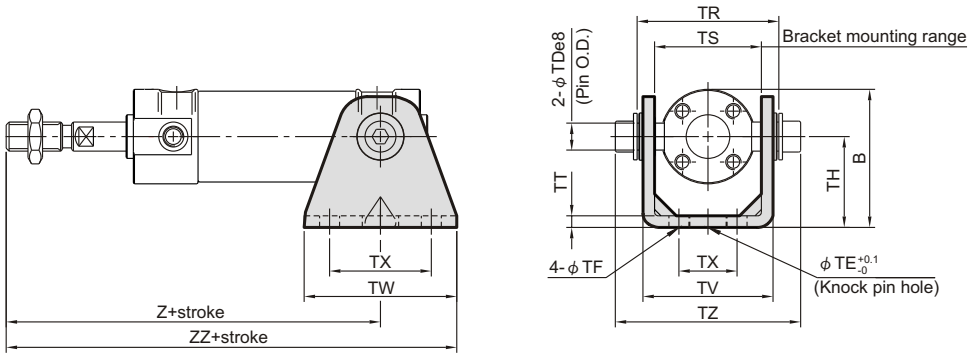
Code / Tube I.D.	B	E	F	FX	FD	FT	ZZ
20	40	12	2	28	5.5	6	112
25	44	14	2	32	5.5	7	118
32	53	18	2	38	6.6	7	120
40	61	25	2	46	6.6	8	138
50	76	30	2	58	9	9	159
63	92	32	2	70	11	9	159

SDB

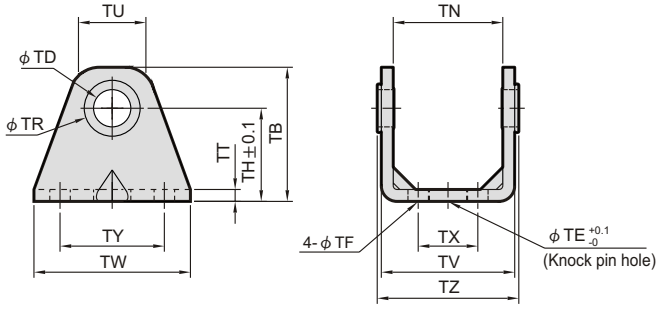
Front trunnion



Rear trunnion



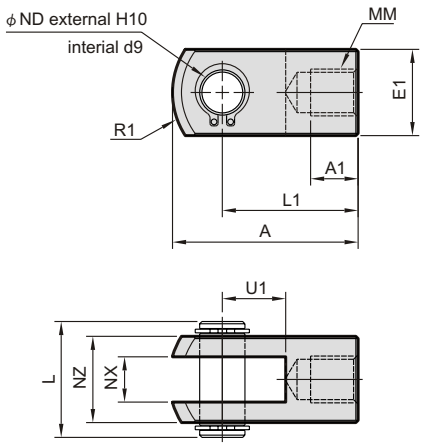
Code / Tube I.D.	B	TDe8	TE	TF	TH	TR	TS	TT	TV	TW	TX	TY	TZ	Front	Rear	
														Z	Z	ZZ
20	38	8 $^{-0.025}_{-0.047}$	10	5.5	25	39	28	3.2	35.8	42	16	28	51	46	93	114
25	45.5	10 $^{-0.025}_{-0.047}$	10	5.5	30	43	33	3.2	39.8	42	20	28	57.9	51	98	119
32	54	12 $^{-0.032}_{-0.059}$	10	6.6	35	54.5	40	4.5	49.4	48	22	28	73.3	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	89.5	62	118	146
50	79	16 $^{-0.032}_{-0.059}$	20	9	50	80	60	6	72.4	64	36	36	109.2	71	136	168
63	96	18 $^{-0.032}_{-0.059}$	20	11	60	98	74	8	90.4	74	46	46	131	71	136	173



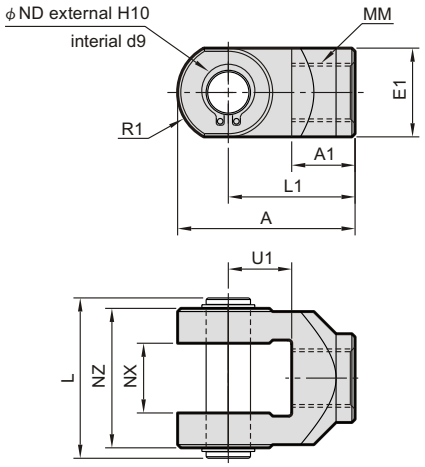
Code / Tube I.D.	TB	TD	TE	TF	TH	TN	TR	TT	TU	TV	TW	TX	TY	TZ	Applicable pin O.D.
20	36	8	10	5.5	25	(29.3)	13	3.2	18.1	35.8	42	16	28	38.3	8d9 $^{-0.040}_{-0.076}$
25	43	10	10	5.5	30	(33.1)	15	3.2	20.7	39.8	42	20	28	42.1	10d9 $^{-0.040}_{-0.076}$
32	50	12	10	6.6	35	(40.4)	17	4.5	23.6	49.4	48	22	28	53.8	12d9 $^{-0.050}_{-0.093}$
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



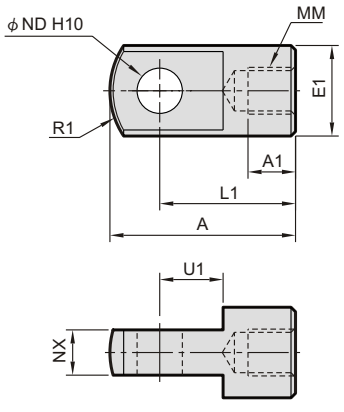
ϕ40~ϕ63



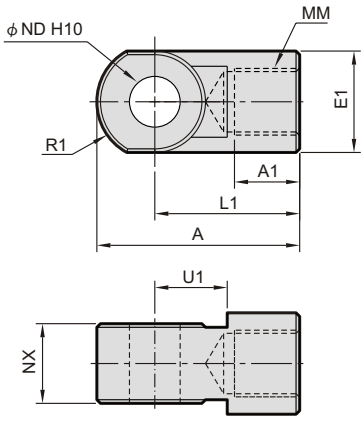
Code / Tube I.D.	A	A1	E1	L	L1	MM	R1	U1	ND	NX	NZ
20	34	8.5	□16	21	25	M8×1.25	10.3	11.5	8	$8^{+0.4}_{+0.2}$	16
25,32	41	10.5	□20	25.6	30	M10×1.25	12.8	14	10	$10^{+0.4}_{+0.2}$	20
40	42	16	ϕ22	41.6	30	M14×1.5	12	14	10	$18^{+0.5}_{+0.3}$	36
50,63	56	20	ϕ28	50.6	40	M18×1.5	16	20	14	$22^{+0.5}_{+0.3}$	44

I Connector

ϕ20~ϕ32

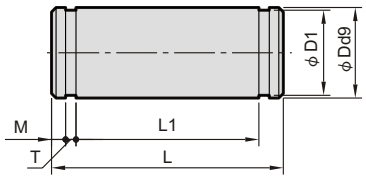


ϕ40~ϕ63



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

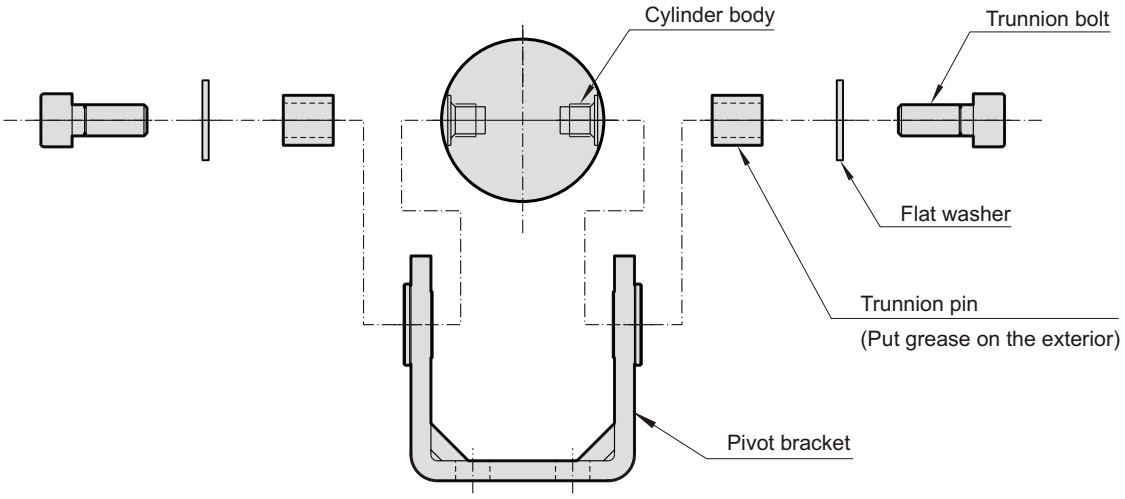
Code / Tube I.D.	Dd9	D1	L	L1	M	T	Snap ring
20	$8^{-0.040}_{-0.076}$	7.6	43.4	38.6	1.5	0.9	STW-8
25	$10^{-0.040}_{-0.076}$	9.6	48	42.6	1.55	1.15	STW-10
32	$12^{-0.050}_{-0.093}$	11.5	59.4	54	1.55	1.15	STW-12
40	$14^{-0.050}_{-0.093}$	13.4	71.4	65	2.05	1.15	STW-14
50	$16^{-0.050}_{-0.093}$	15.2	86	79.6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