

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°C (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

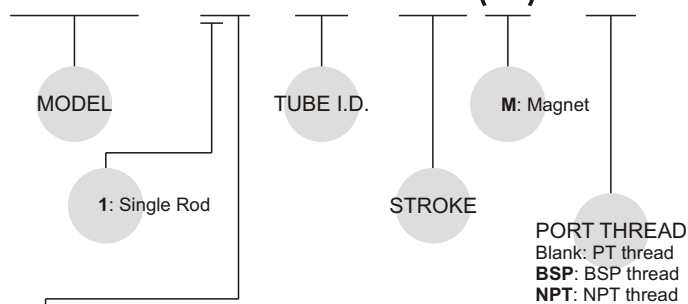
Tube I.D.(mm)	Stroke (mm)
φ 20	25, 50, 75, 100, 125, 150, 200
φ 25, 32, 40, φ 50, 63	25, 50, 75, 100, 125, 150, 200, 250, 300

Long stroke:

Please reconfirm the dimension with our sales department when the stroke over our standard.

Order example:

MCCG - 11 - 40 - 100(M) - BSP

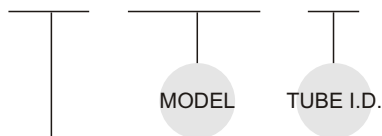


STYLE:

Code	Symbol	Description
1	1	Double acting / Male thread

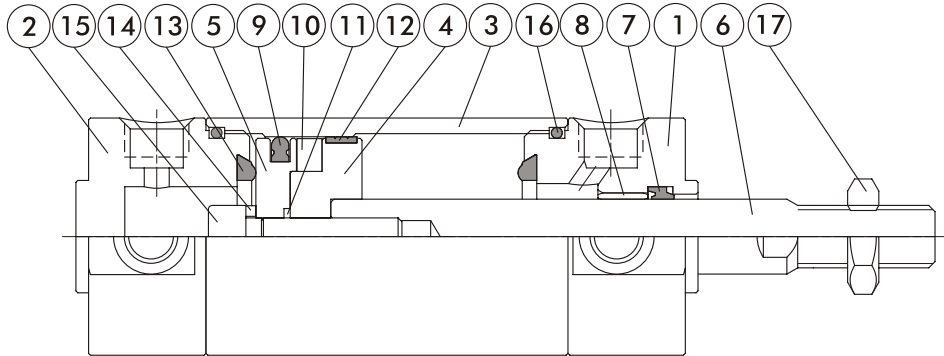
Mounting accessories:

FAC - MCCG - 40



MOUNTING TYPE

	LB
	CB
	FAC
	FBC
	SDB
	CB+SDB
	TA
	TB

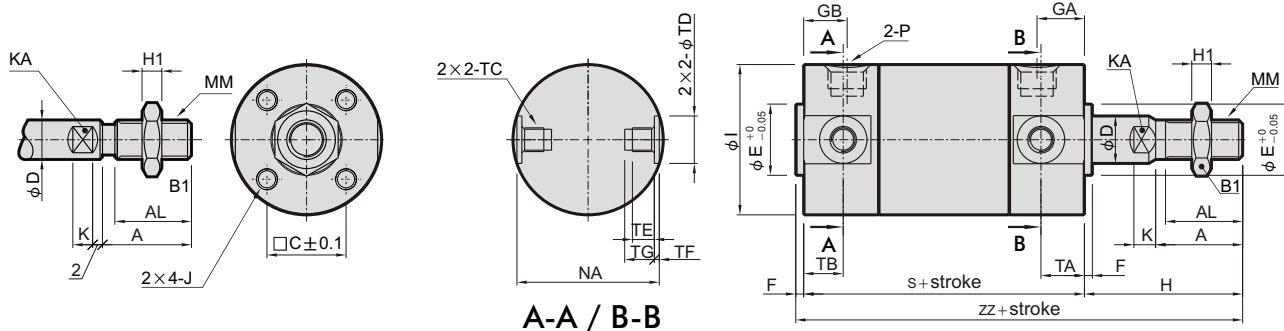


Material

No.	Part name	Material	Note
1	Rod cover	Aluminum alloy	
2	Head cover	Aluminum alloy	
3	Tube	Aluminum alloy	
4	Piston-R	Aluminum alloy	φ 25 - Polyurethane
5	Piston-H	Aluminum alloy	φ 25 - Polyurethane
6	Piston rod	Medium carbon steel	
7	Rod packing	NBR	
8	Rod bush	Copper	
9	Piston 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	

$\phi 20, \phi 25$

$\phi 32 \sim \phi 63$



unit: mm

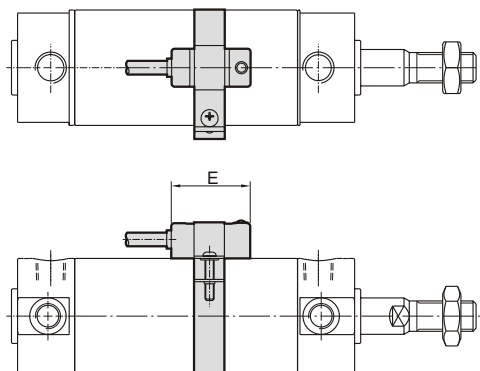
Code Tube I.D.	A	AL	B1	C	D	E	F	GA	GB	H	H1	I	J	K	KA	MM	NA	P	S	TA	TB
20	18	15.5	13	14	8	12	2	12	12	35	5	26	M4×0.7×7 深	4	6	M8×1.25	24	PT 1/8	69	11	11
25	22	19.5	17	16.5	10	14	2	12	12	40	6	31	M5×0.8×7.5 深	5	8	M10×1.25	29	PT 1/8	69	11	11
32	22	19.5	17	20	12	18	2	12	11	40	6	38	M5×0.8×8 深	5.5	10	M10×1.25	36	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

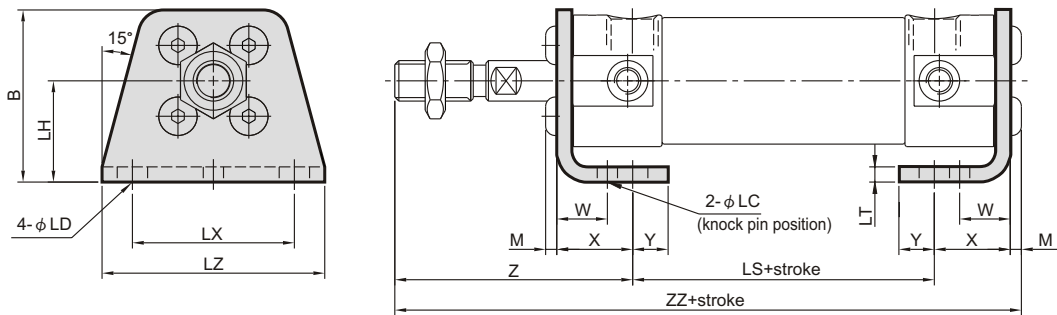
Sensor switch: RCA

Sensor switch band: BGA**



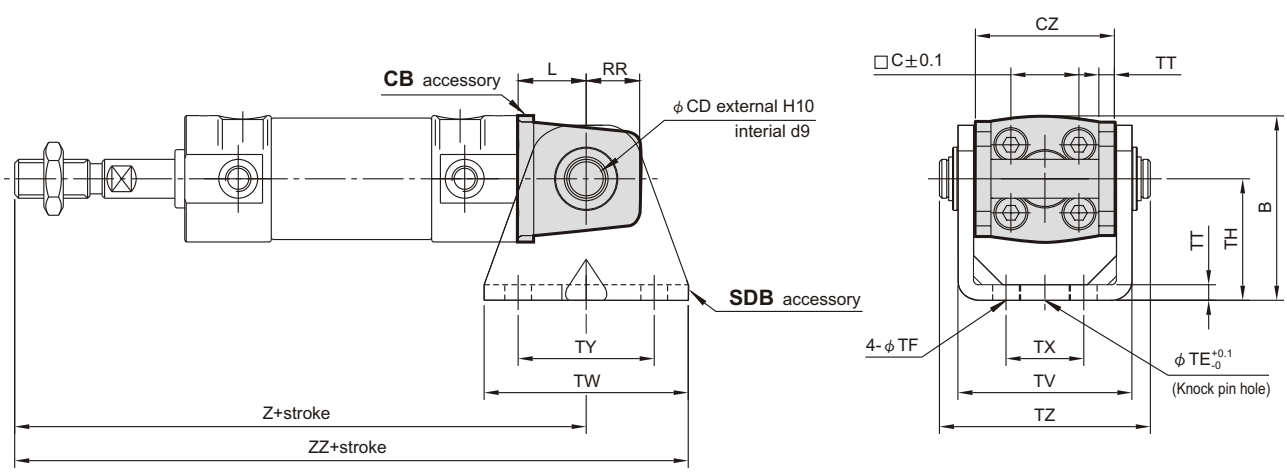
Code Tube I.D.	A	B	C	D	E
20	18	31	25	38	26
25	20	35	27	42	26
32	24	43	31	50	26
40	29	53	36	60	26
50	34	63	41	70	26
63	41	77	48	84	26

LB



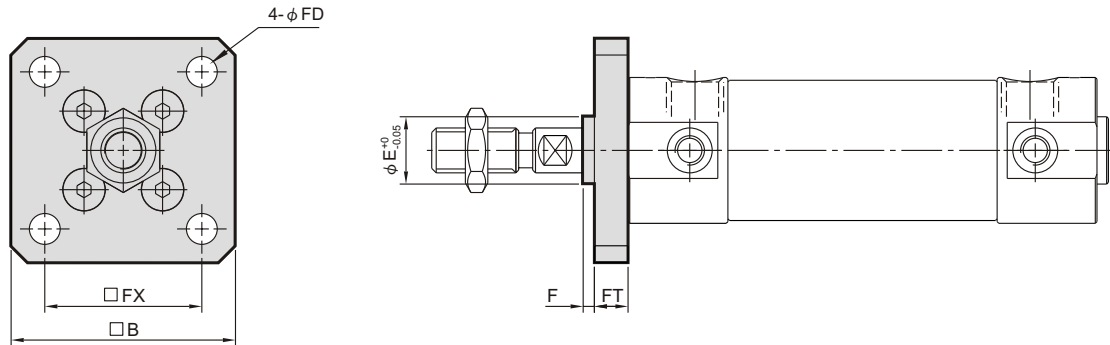
Code Tube I.D.	B	LC	LD	LH	LS	LT	LX	LZ	M	W	X	Y	Z	ZZ
20	34	4	6	20	45	3	32	44	2.2	10	15	7	47	109.2
25	38.5	4	6	22	45	3	36	49	2.8	10	15	7	52	114.8
32	45	4	6.6	25	45	3	44	58	2.8	10	16	8	53	116.8
40	54.5	4	6.6	30	51	3	54	71	3.3	10	16.5	8.5	63.5	134.3
50	70.5	5	9	40	55	4.5	66	86	4.4	17.5	22	11	75.5	156.9
63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

CB SDB+Pin (Extra purchase)

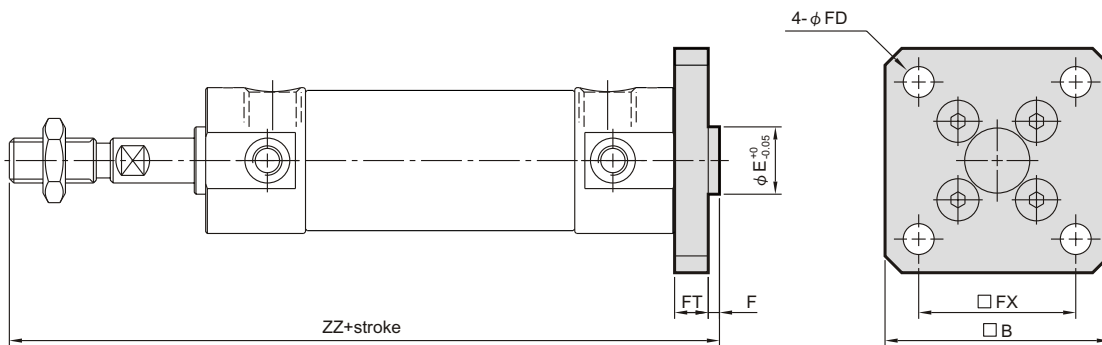


Code Tube I.D.	B	CD	CZ	L	RR	TE	TF	TH	TT	TV	TW	TX	TY	TZ	Z	ZZ
20	38	8	29	14	11	10	5.5	25	3.2	35.8	42	16	28	43.4	118	139
25	45.5	10	33	16	13	10	5.5	30	3.2	39.8	42	20	28	48	125	146
32	54	12	40	20	15	10	6.6	35	4.5	49.4	48	22	28	59.4	131	155
40	63.5	14	49	22	18	10	6.6	40	4.5	58.4	56	30	30	71.4	150	178
50	79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



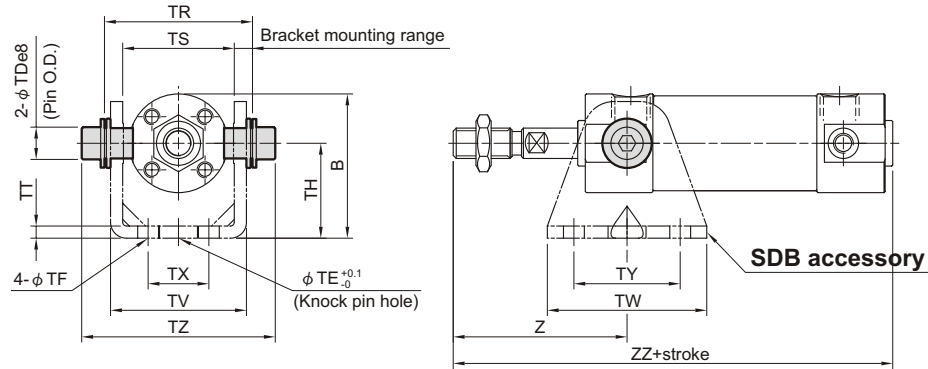
FBC



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

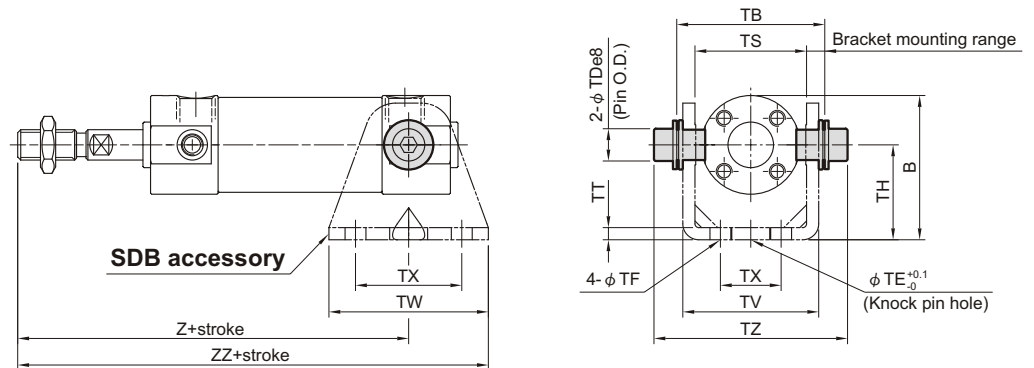
TA

Front trunnion



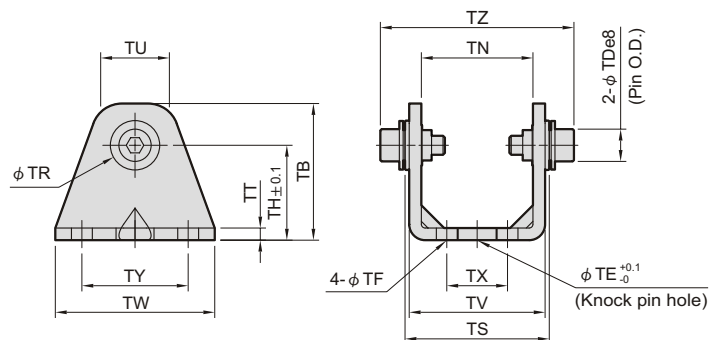
TB

Rear trunnion



Code Tube I.D.	B	TDe8	TE	TF	TH	TR	TS	TT	TV	TW	TX	TY	TZ	Front Z	Rear 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
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

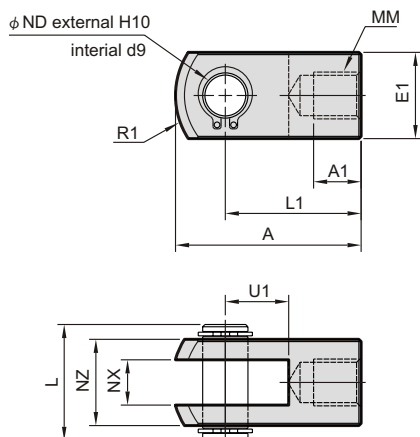
SDB



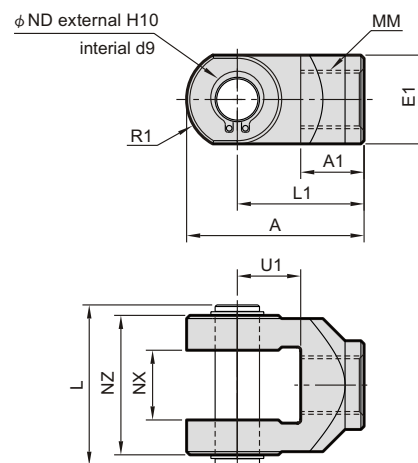
Code Tube I.D.	TB	TE	TF	TH	TN	TR	TT	TU	TV	TW	TX	TY	TS	TZ	Applicable pin O.D.
20	36	10	5.5	25	(29.3)	13	3.2	18.1	35.8	42	16	28	38.3	51	8d9 ^{-0.040} _{-0.076}
25	43	10	5.5	30	(33.1)	15	3.2	20.7	39.8	42	20	28	42.1	57.9	10d9 ^{-0.040} _{-0.076}
32	50	10	6.6	35	(40.4)	17	4.5	23.6	49.4	48	22	28	53.8	73.3	12d9 ^{-0.050} _{-0.093}
40	58	10	6.6	40	(49.2)	21	4.5	27.3	58.4	56	30	30	64.6	89.5	14d9 ^{-0.050} _{-0.093}
50	70	20	9	50	(60.4)	24	6	29.7	72.4	64	36	36	79.2	109.2	16d9 ^{-0.050} _{-0.093}
63	82	20	11	60	(74.6)	26	8	34.3	90.4	74	46	46	97.2	131	18d9 ^{-0.050} _{-0.093}

Y Connector

$\phi 20 \sim \phi 32$



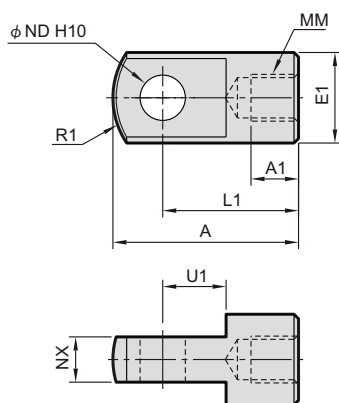
$\phi 40 \sim \phi 63$



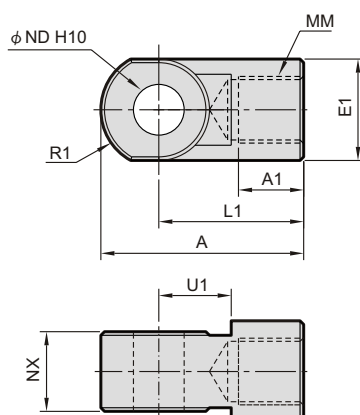
Code Tube I.D.	A	A1	E1	L	L1	MM	R1	U1	ND	NX	NZ
20	34	8.5	$\square 16$	21	25	M8 \times 1.25	14	11.5	8	8 $^{+0.4}_{+0.2}$	16
25,32	41	10.5	$\square 20$	25.6	30	M10 \times 1.25	18	14	10	10 $^{+0.4}_{+0.2}$	20
40	42	16	$\phi 22$	41.6	30	M14 \times 1.5	12	14	10	18 $^{+0.5}_{+0.3}$	36
50,63	56	20	$\phi 28$	50.6	40	M18 \times 1.5	16	20	14	22 $^{+0.5}_{+0.3}$	44

I Connector

$\phi 20 \sim \phi 32$

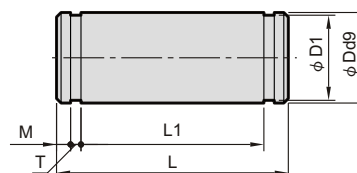


$\phi 40 \sim \phi 63$



Code Tube I.D.	A	A1	E1	L1	MM	R1	U1	NDH10	NX
20	34	8.5	$\phi 16$	25	M8 \times 1.25	14	11.5	8 $^{+0.058}_{0}$	8 $^{-0.2}_{-0.4}$
25,32	41	10.5	$\phi 20$	30	M10 \times 1.25	18	14	10 $^{+0.058}_{0}$	10 $^{-0.2}_{-0.4}$
40	42	14	$\phi 22$	30	M14 \times 1.5	12	14	10 $^{+0.058}_{0}$	18 $^{-0.3}_{-0.5}$
50,63	56	18	$\phi 28$	40	M18 \times 1.5	16	20	14 $^{+0.070}_{0}$	22 $^{-0.3}_{-0.5}$

Pin



for CB

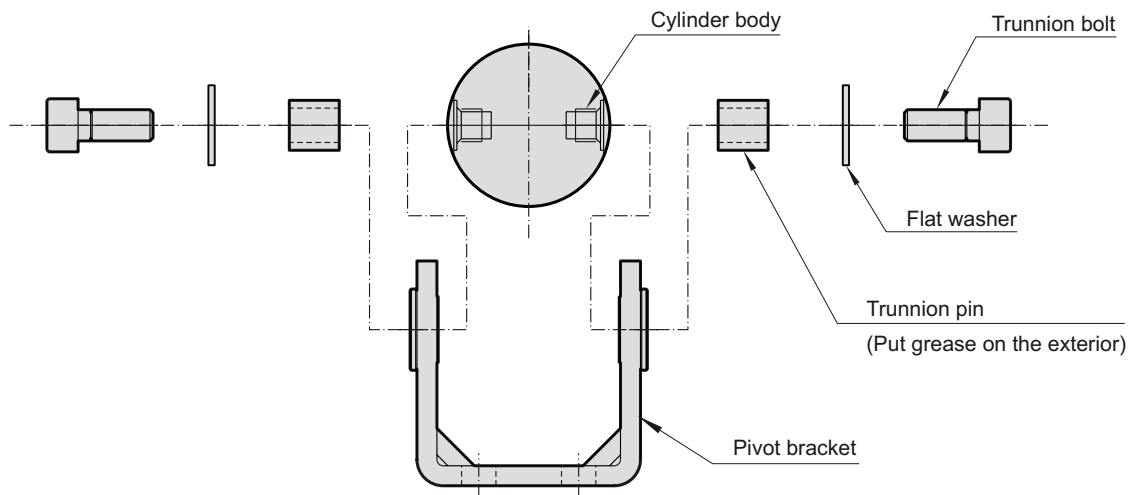
Code Tube I.D.	Dd9	D1	L	L1	M	T	Snap ring
20	8 $^{-0.040}_{-0.076}$	7.6	43.4	38.6	1.5	0.9	STW-8
25	10 $^{-0.040}_{-0.076}$	9.6	48	42.6	1.55	1.15	STW-10
32	12 $^{-0.050}_{-0.093}$	11.5	59.4	54	1.55	1.15	STW-12
40	14 $^{-0.050}_{-0.093}$	13.4	71.4	65	2.05	1.15	STW-14
50	16 $^{-0.050}_{-0.093}$	15.2	86	79.6	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
40	10 $^{-0.04}_{-0.08}$	9.6	41.6	36.2	1.55	1.15	STW-10
50,63	14 $^{-0.05}_{-0.09}$	13.4	50.6	44.2	2.05	1.15	STW-14

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.

