

# MCCN series

## ROUND CYLINDERS



### Specification:

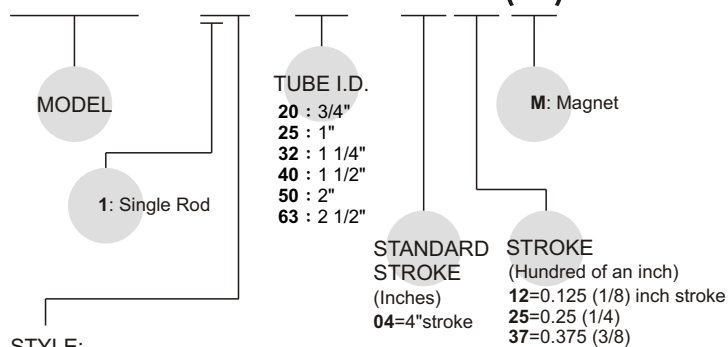
Model	MCCN					
Acting type	Double acting					
Tube I.D.	20	25	32	40	50	63
Port size	NPT 1/8			NPT 1/4		
Medium	Air					
Max operating pressure	9.9 kgf/cm <sup>2</sup>					
Min operating pressure	0.5 kgf/cm <sup>2</sup>					
Proof pressure	15 kgf/cm <sup>2</sup>					
Ambient temperature	-5~+60°C (No 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.(inch)	Stroke (inch)
3/4"	1, 2, 3, 4, 5, 6, 8
1"~2 1/2"	1, 2, 3, 4, 5, 6, 8, 10, 12

### Order example:

**MCCN - 11 - 40 - 0425(M)**

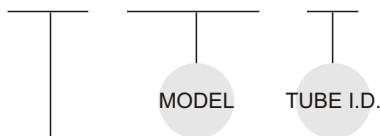


STYLE:

Code	Symbol	Description
1 1		Double acting / Male thread

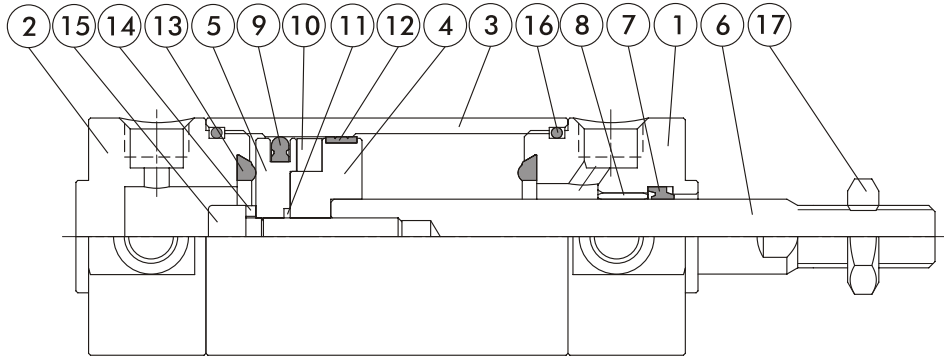
### Mounting accessories:

**FAC - MCCN - 40**



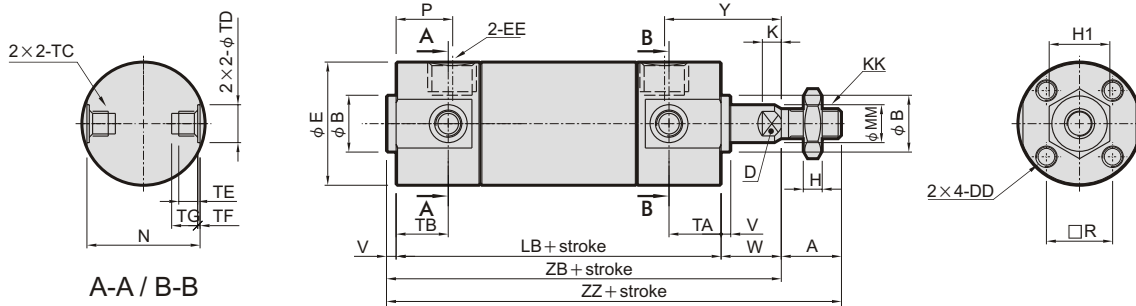
MOUNTING TYPE

	<b>LB</b>
	<b>CB</b>
	<b>FAC</b>
	<b>FBC</b>
	<b>SDB</b>
	<b>CB+SDB</b>



### 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	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

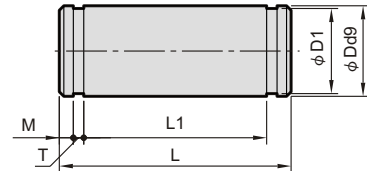


Unit: inch

Code Tube I.D.	A	B	D	DD	E	EE	H	H1	K	KK	LB	MM	N	P	R	TA
20	0.50	0.472 <sup>+0</sup> <sub>-0.0011</sub>	0.24	#8-32×0.28 depth	1.02	NPT 1/8	0.16	0.44	0.157	1/4-28 UNF	2.70	0.315	0.94	0.47	0.55	0.433
25	0.50	0.551 <sup>+0</sup> <sub>-0.0011</sub>	0.31	#10-32×0.30 depth	1.22	NPT 1/8	0.19	0.50	0.197	5/16-24 UNF	2.70	0.394	1.14	0.47	0.65	0.433
32	0.75	0.709 <sup>+0</sup> <sub>-0.0011</sub>	0.39	#10-32×0.30 depth	1.50	NPT 1/8	0.26	0.69	0.217	7/16-20 UNF	2.78	0.472	1.42	0.43	0.79	0.433
40	0.75	0.984 <sup>+0</sup> <sub>-0.0013</sub>	0.55	1/4-28×0.47 depth	1.85	NPT 1/8	0.26	0.69	0.236	7/16-20 UNF	3.06	0.630	1.73	0.47	1.02	0.472
50	0.88	1.181 <sup>+0</sup> <sub>-0.0013</sub>	0.71	5/16-24×0.63 depth	2.28	NPT 1/4	0.32	0.75	0.276	1/2-20 UNF	3.53	0.787	2.17	0.51	1.26	0.512
63	0.88	1.260 <sup>+0</sup> <sub>-0.0015</sub>	0.71	3/8-24×0.63 depth	2.83	NPT 1/4	0.32	0.75	0.276	1/2-20 UNF	3.53	0.787	2.72	0.51	1.50	0.512

Code Tube I.D.	TB	TC	TD <sub>H9</sub>	TE	TF	TG	V	W	Y	ZB	ZZ
20	0.433	M5×0.8	0.315	0.157	0.020	0.217	0.08	0.50	0.97	3.28	3.78
25	0.433	M6×0.75	0.394	0.197	0.039	0.256	0.08	0.62	1.09	3.40	3.90
32	0.394	M8×1.0	0.472	0.217	0.049	0.295	0.08	0.88	1.35	3.74	4.49
40	0.394	M10×1.25	0.551	0.240	0.049	0.335	0.08	0.88	1.39	4.02	4.77
50	0.472	M12×1.25	0.630	0.295	0.079	0.394	0.08	1.19	1.74	4.80	5.68
63	0.472	M14×1.5	0.709	0.453	0.118	0.571	0.08	1.19	1.74	4.80	5.68

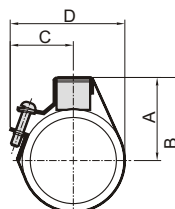
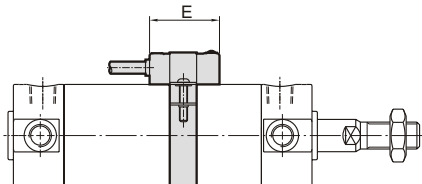
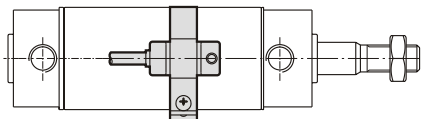
**Pin**



### Installation of sensor switch

Sensor switch: RCA

Sensor switch band: BGA\*\*



### for CB

Unit: inch

Code Tube I.D.	Dd9	D1	L	L1	M	T	Snap ring
20	0.315 <sup>-0.0016</sup> <sub>-0.0030</sub>	0.30	1.71	1.52	0.06	0.04	STW-8
25	0.394 <sup>-0.0016</sup> <sub>-0.0030</sub>	0.38	1.89	1.68	0.06	0.05	STW-10
32	0.472 <sup>-0.0020</sup> <sub>-0.0037</sub>	0.45	2.34	2.13	0.06	0.05	STW-12
40	0.551 <sup>-0.0020</sup> <sub>-0.0037</sub>	0.53	2.81	2.56	0.08	0.05	STW-14
50	0.630 <sup>-0.0020</sup> <sub>-0.0037</sub>	0.60	3.39	3.13	0.08	0.05	STW-16
63	0.709 <sup>-0.0020</sup> <sub>-0.0037</sub>	0.67	4.15	3.85	0.10	0.05	STW-18

Unit: inch

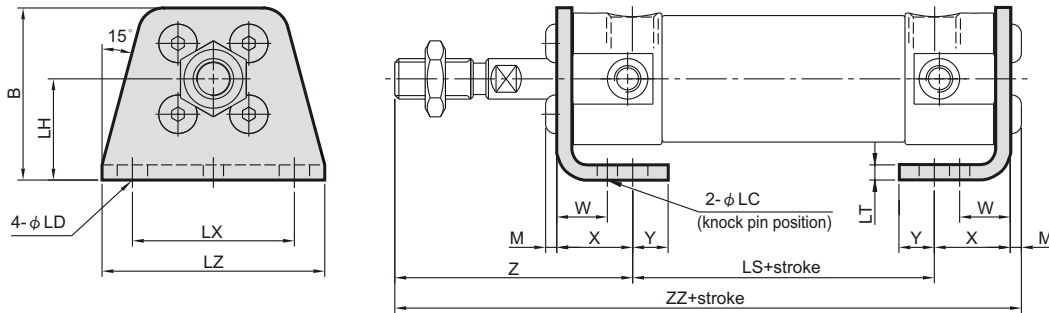
Code Tube I.D.	A	B	C	D	E
20	0.709	1.220	0.984	1.50	1.024
25	0.787	1.378	1.063	1.654	1.024
32	0.945	1.693	1.220	1.969	1.024
40	1.142	2.087	1.417	2.362	1.024
50	1.339	2.480	1.614	2.756	1.024
63	1.614	3.031	1.890	3.307	1.024

# MCCN Mounting accessories $\phi 3/4'' \sim \phi 2 1/2''$

## ROUND CYLINDERS



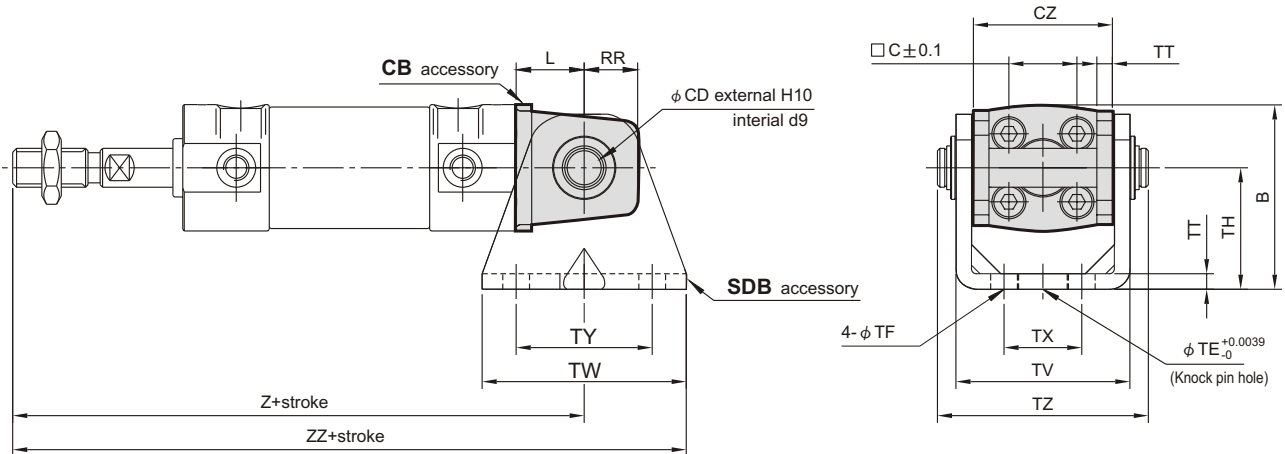
### LB



Unit: inch

Code Tube I.D.	B	LC	LD	LH	LS	LT	LX	LZ	M	W	X	Y	Z	ZZ
20	1.34	0.16	0.24	0.79	1.77	0.12	1.26	1.73	0.09	0.39	0.59	0.28	1.47	3.92
25	1.52	0.16	0.24	0.87	1.77	0.12	1.42	1.93	0.11	0.39	0.59	0.28	1.59	4.06
32	1.77	0.16	0.26	0.98	1.77	0.12	1.73	2.28	0.11	0.39	0.63	0.31	2.14	4.65
40	2.15	0.16	0.26	1.18	2.01	0.12	2.13	2.80	0.13	0.39	0.65	0.33	2.16	4.95
50	2.78	0.20	0.35	1.57	2.17	0.18	2.60	3.39	0.17	0.69	0.87	0.43	2.76	5.96
63	3.25	0.20	0.43	1.77	2.17	0.18	3.23	4.17	0.22	0.69	0.87	0.51	2.76	6.01

### CB SDB+Pin (Extra purchase)



Unit: inch

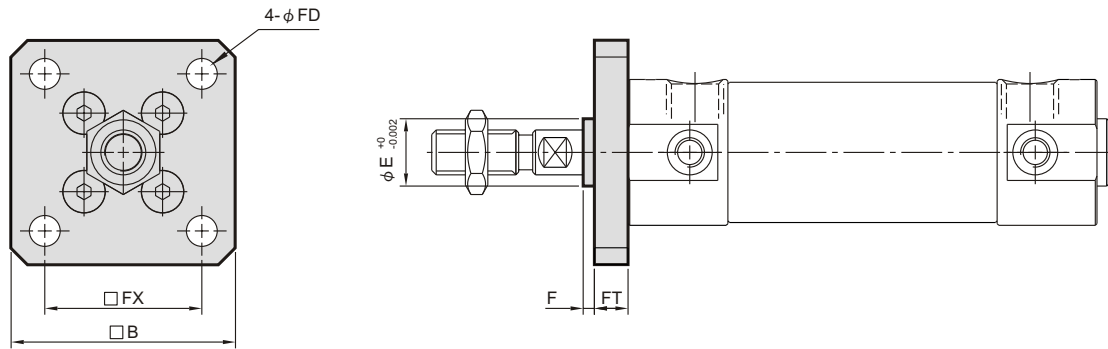
Code Tube I.D.	B	CD	CZ	L	RR	TE	TF	TH	TT	TV	TW	TX	TY	TZ	Z	ZZ
20	1.50	0.315	1.14	0.55	0.43	0.394	0.22	0.98	0.13	1.41	1.65	0.63	1.10	1.71	4.27	5.09
25	1.79	0.394	1.30	0.63	0.51	0.394	0.22	1.18	0.13	1.57	1.65	0.79	1.10	1.89	4.47	5.29
32	2.13	0.472	1.57	0.79	0.59	0.394	0.26	1.38	0.18	1.94	1.89	0.87	1.10	2.34	5.21	6.16
40	2.50	0.551	1.93	0.87	0.71	0.394	0.26	1.57	0.18	2.30	2.20	1.18	1.18	2.81	5.57	6.67
50	3.11	0.630	2.36	0.98	0.79	0.787	0.35	1.97	0.24	2.85	2.52	1.42	1.42	3.39	6.60	7.86
63	3.78	0.709	2.91	1.18	0.87	0.787	0.43	2.36	0.31	3.56	2.91	1.81	1.81	4.15	6.80	8.25

# MCCN Mounting accessories $\phi 3/4'' \sim \phi 2 1/2''$

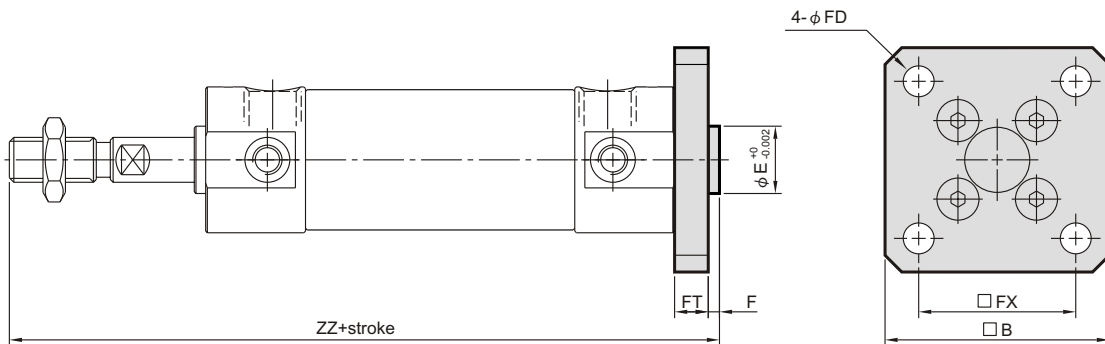
## ROUND CYLINDERS



### FAC



### FBC

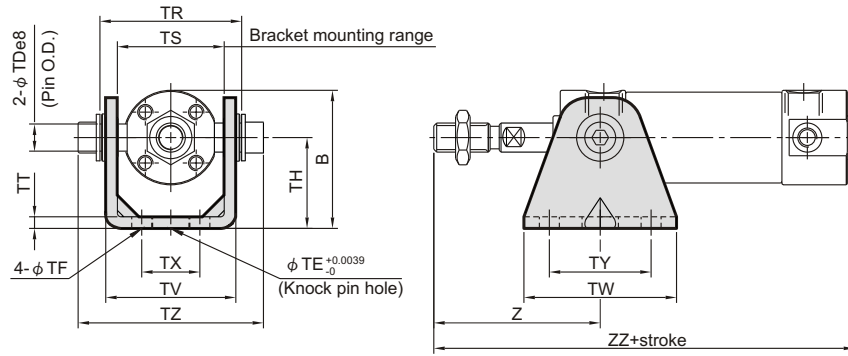


Unit: inch

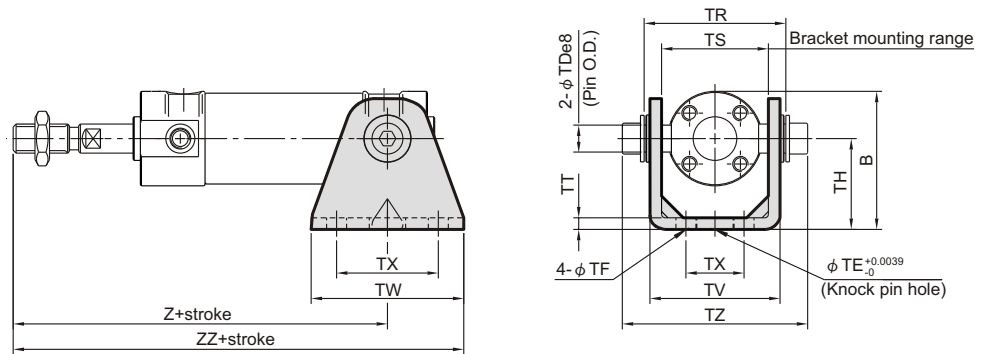
Code Tube I.D.	B	E	F	FX	FD	FT	ZZ
20	1.57	0.472	0.08	1.10	0.22	0.24	4.03
25	1.73	0.551	0.08	1.26	0.22	0.28	4.19
32	2.09	0.709	0.08	1.50	0.26	0.28	4.78
40	2.40	0.984	0.08	1.18	0.26	0.31	5.09
50	2.99	1.181	0.08	2.28	0.35	0.35	6.05
63	3.62	1.260	0.08	2.76	0.43	0.35	6.05

### SDB

#### Front trunnion

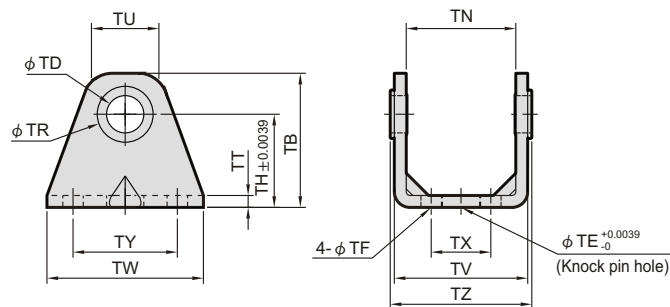


#### Rear trunnion



Unit: inch

Code Tube I.D.	B	TDe8	TE	TF	TH	TR	TS	TT	TV	TW	TX	TY	TZ	Front	Rear	
														Z	Z	ZZ
20	1.50	0.315	0.394	0.22	0.98	1.54	1.10	0.13	1.41	1.65	0.63	1.10	2.00	1.43	3.28	4.11
25	1.79	0.394	0.394	0.22	1.18	1.69	1.30	0.13	1.57	1.65	0.79	1.10	2.27	1.55	3.40	4.23
32	2.13	0.472	0.394	0.26	1.38	2.15	1.57	0.18	1.94	1.89	0.87	1.10	2.88	2.06	4.03	4.98
40	2.50	0.551	0.394	0.26	1.57	2.58	1.93	0.18	2.30	2.20	1.18	1.18	3.52	2.10	4.31	5.41
50	3.11	0.630	0.787	0.35	1.97	3.15	2.36	0.24	2.85	2.52	1.42	1.42	4.29	2.58	5.14	6.40
63	3.78	0.709	0.787	0.43	2.36	3.86	2.91	0.31	3.56	2.91	1.81	1.81	5.15	2.58	5.14	6.60

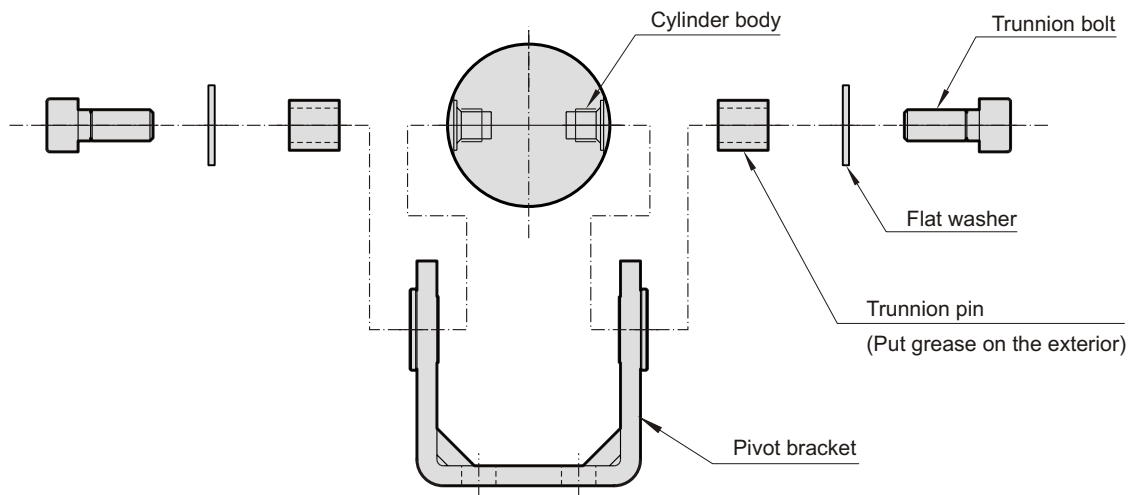


Unit: inch

Code Tube I.D.	TB	TD	TE	TF	TH	TN	TR	TT	TU	TV	TW	TX	TY	TZ	Applicable pin O.D.
20	1.42	0.31	0.394	0.22	0.98	(1.15)	0.51	0.13	0.71	1.41	1.65	0.63	1.10	1.51	0.315 -0.0016 -0.0030
25	1.69	0.39	0.394	0.22	1.18	(1.30)	0.59	0.13	0.81	1.57	1.65	0.79	1.10	1.66	0.394 -0.0016 -0.0030
32	1.97	0.47	0.394	0.26	1.38	(1.59)	0.67	0.18	0.93	1.94	1.89	0.87	1.10	2.12	0.472 -0.0020 -0.0037
40	2.28	0.55	0.394	0.26	1.57	(1.94)	0.83	0.18	1.07	2.30	2.20	1.18	1.18	2.54	0.551 -0.0020 -0.0037
50	2.76	0.63	0.787	0.35	1.97	(2.38)	0.94	0.24	1.17	2.85	2.52	1.42	1.42	3.12	0.630 -0.0020 -0.0037
63	3.23	0.71	0.787	0.43	2.36	(2.94)	1.02	0.31	1.35	3.56	2.91	1.81	1.81	3.83	0.709 -0.0020 -0.0037

### 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.

