MCCN series

ROUND CYLINDERS

Specification:

Model	MCCN					
Acting type	Double acting					
Tube I.D.	20	25	32	40	50	63
Port size Rc(PT)	NPT 1/8				NPT 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					
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

※ Port thread BSP. PT. are also available.

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) − LB − BSP

MODEL

1: Single Rod

TUBE I.D.
20 : 3/4"
25 : 1"
32 : 1 1/4"
40 : 1 1/2"
50 : 2"
63 : 2 1/2"

STANDARD STROKE
(Inches)
04=4"stroke

STROKE
(Hundred of an inch)
12=0.125 (1/8) inch stroke
25=0.25 (1/4)
37=0.375 (3/8)

M: Magnet

MOUNTING TYPE

	LB
	CB
	SDB
	CB+SDB
	FAC
	FBC

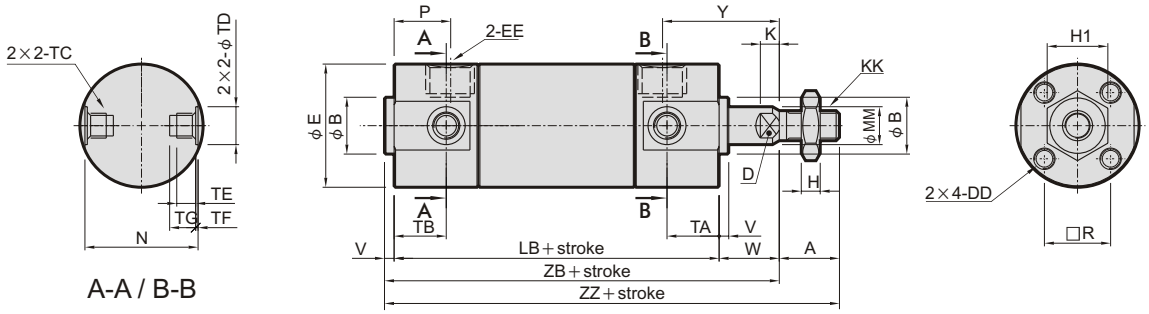
PORT THREAD
Blank: PT thread
BSP: BSP thread
NPT: NPT thread

STYLE:

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

MCCN Dimensions ϕ3/4"~ϕ2 1/2"

ROUND CYLINDERS

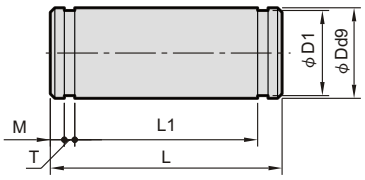


Unit: inch

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 $^{+0}_{-0.0011}$	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 $^{+0}_{-0.0011}$	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 $^{+0}_{-0.0011}$	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 $^{+0}_{-0.0013}$	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 $^{+0}_{-0.0013}$	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 $^{+0}_{-0.0015}$	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 H9	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



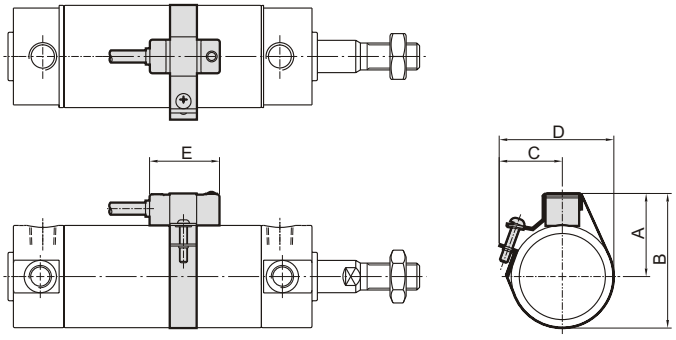
for CB

Unit: inch

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

■Installation of sensor switch

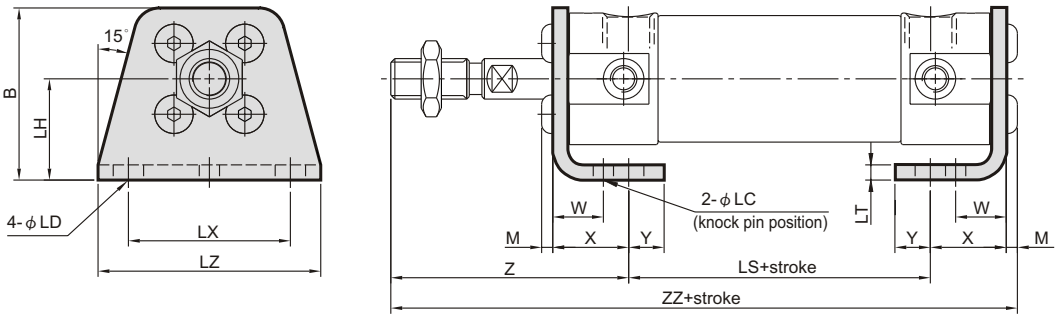
Sensor switch: RCA
Sensor switch band: BGA**



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

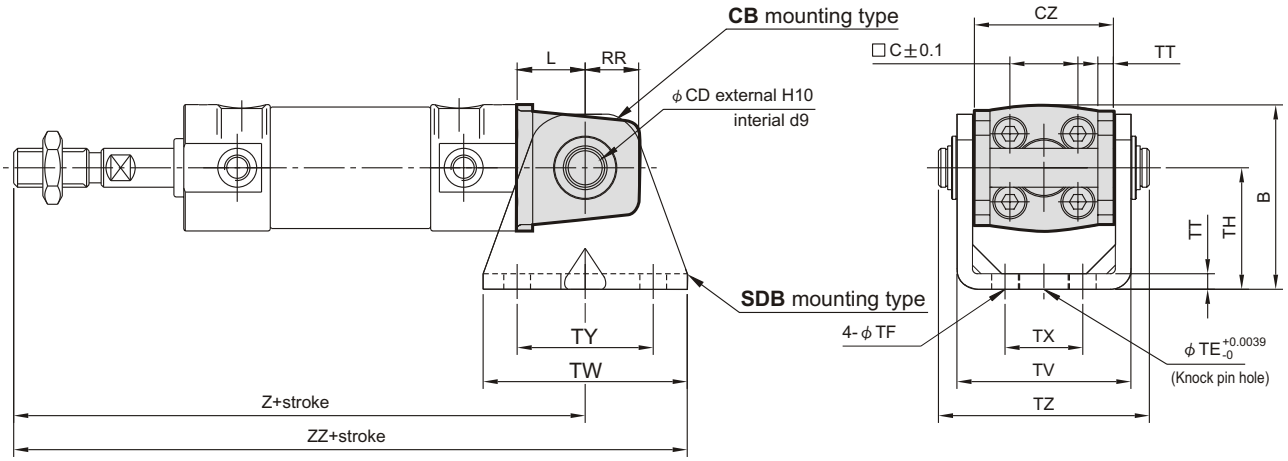
LB



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

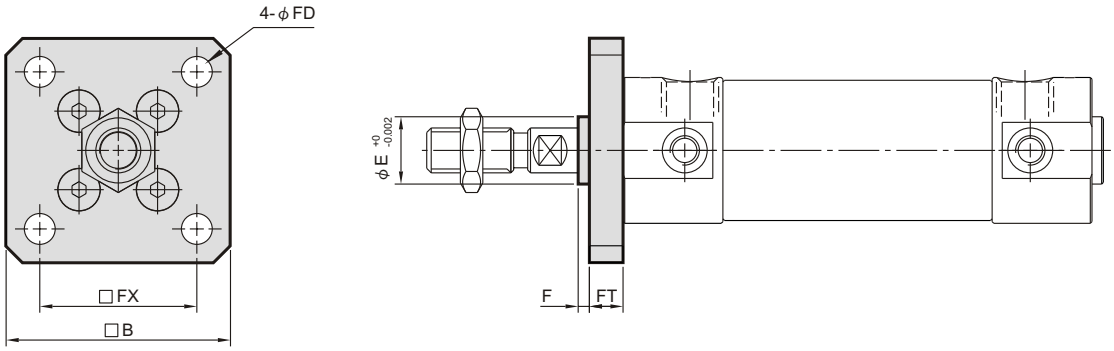
CB SDB+Pin (Extra purchase)



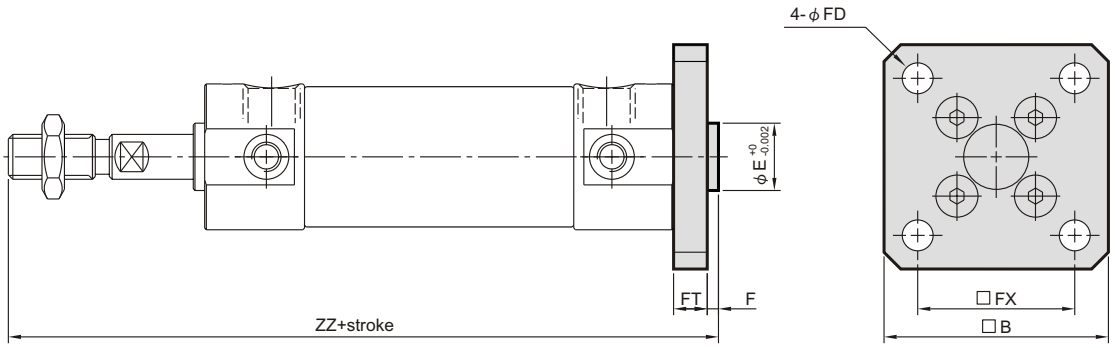
Unit: inch

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

FAC



FBC

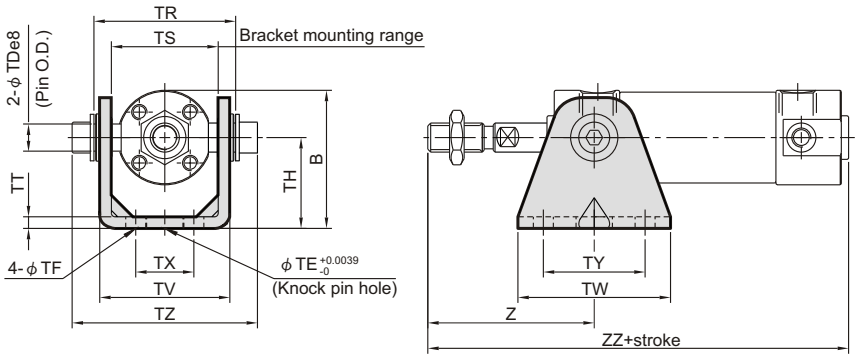


Unit: inch

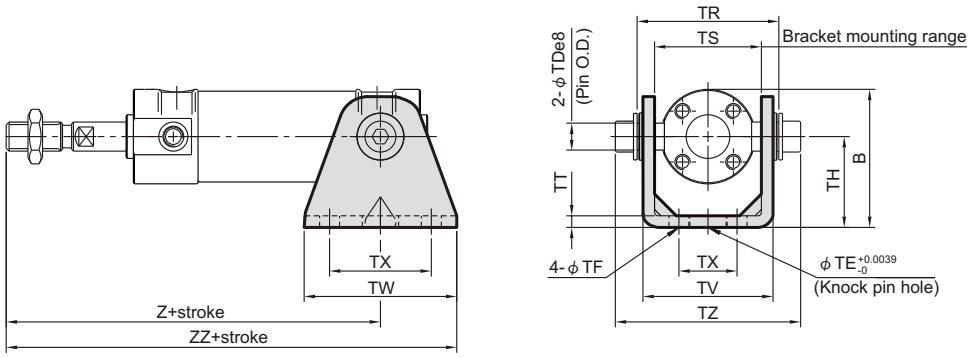
Code / Tube I.D.	B	E	F	FX	FD	FT	ZZ
20	1.57	0.472	0.08	1.10	0.22	0.24	4.03
25	1.73	0.551	0.08	1.26	0.22	0.28	4.19
32	2.09	0.709	0.08	1.50	0.26	0.28	4.78
40	2.40	0.984	0.08	1.18	0.26	0.31	5.09
50	2.99	1.181	0.08	2.28	0.35	0.35	6.05
63	3.62	1.260	0.08	2.76	0.43	0.35	6.05

SDB

Front trunnion

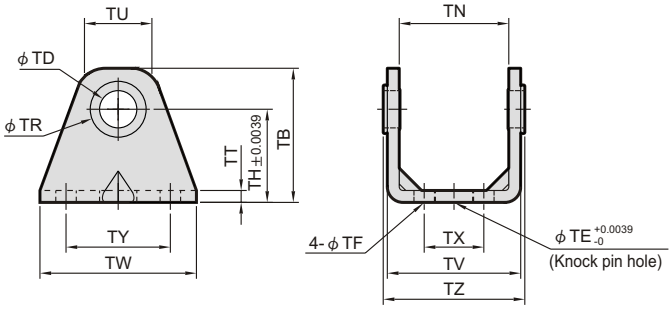


Rear trunnion



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	1.87	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	2.09	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	2.67	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	3.10	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	3.88	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	4.69	2.58	5.14	6.60

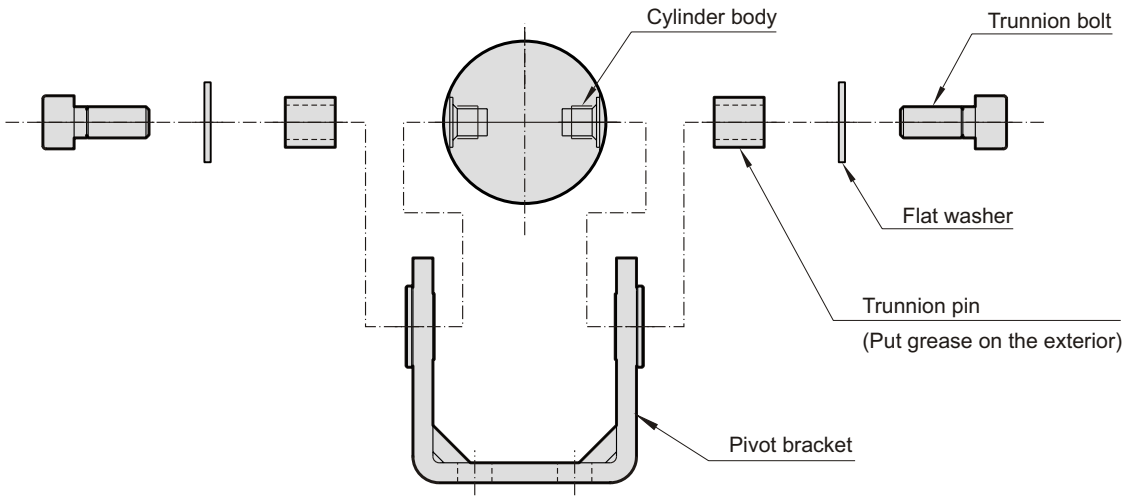


Unit: inch

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.