

MCCG series

ROUND CYLINDER



Special spec



Rod end shape



Technical data



Caution for safety
(Read before installing)



Table for standard stroke

Tube I.D.	Stroke (mm)	Long stroke (mm)	Max. stroke (mm)
ø20	25,50,75,100,125,150,200	201~350	1200
ø25		301~400	
ø32		301~450	
ø40		301~800	
ø50		301~1200	
ø63		301~500	500
ø80	25,50,75,100,125,150,200,250,300	301~500	
ø100		301~500	

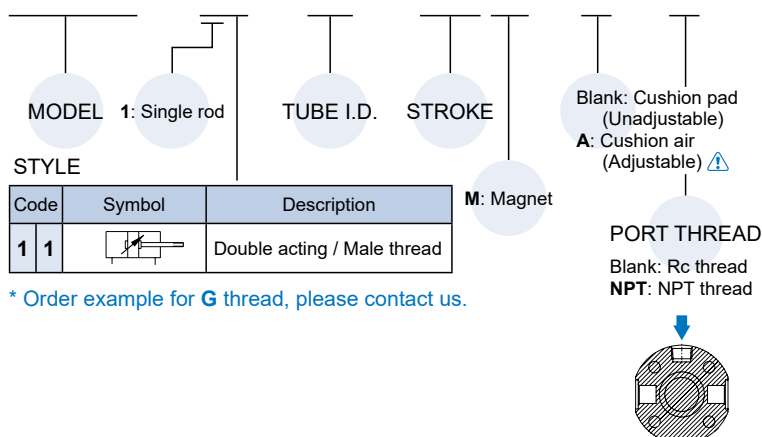
* Intermediate stroke are available, please contact us.

Specification

Model		MCCG							
Acting type		Double acting							
Tube I.D. (mm)		20	25	32	40	50	63	80	100
Port size		Rc1/8				Rc1/4		Rc3/8	Rc1/2
Medium		Air							
Max. operating perssure		1 MPa							
Min. operating perssure		0.05 MPa							
Proof pressure		1.5 MPa							
Lubrication		Not required							
Ambient temperature		-5~+60°C (No freezing)							
Available speed range		50~500 mm/sec							
Max. allowable kinetic energy (J)	Cushion pad	0.07	0.10	0.17	0.3	0.5	0.85	1.48	2.48
	Cushion air	0.09	0.14	0.23	0.45	0.85	1.23	2.95	4.18
Sensor switch		RDC, RQC  , RCM 						RCM 	
Sensor switch band	R°C	BKC-1 (Not for R°C/V angle cable)						—	
	RCM	BMG20	BMG25	BMG32	BMG40	BMG50	BMG63	BMG80	BMG100

Order example

MCCG — 11 — 40 — 100M — A — □

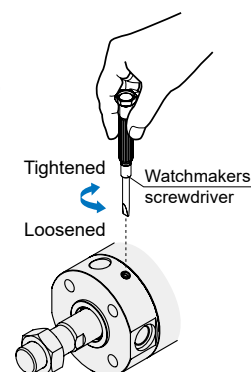


* Order example for G thread, please contact us.

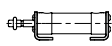
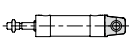
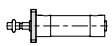
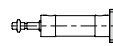
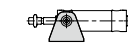
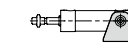
Caution

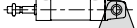
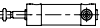
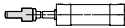
For (A) Cushion air (Adjustable)

1. To adjust a cushion needle, please slowly turn the needle valve from the fully closed status to the required status which needs to be within 2.5 turns.
2. If the needle valve loosen excessively, the buffer doesn't take effect and the lifetime of cylinder would be shortened.



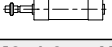
■ Mounting accessories

Accessories						
Code	LB (Purchase 2 pcs)	CB	FAC	FBC	SDB-R ¹ (with TA)	SDB-H ¹ (with TB)
Mounting Tube I.D.						
ø20	LB-C1-20	CB-C1-20	FAC-C1-20		SDB-C1-20	
ø25	LB-C1-25	CB-C1-25	FAC-C1-25		SDB-C1-25	
ø32	LB-C1-32	CB-C1-32	FAC-C1-32		SDB-C1-32	
ø40	LB-C1-40	CB-C1-40	FAC-C1-40		SDB-C1-40	
ø50	LB-C1-50	CB-C1-50	FAC-C1-50		SDB-C1-50	
ø63	LB-C1-63	CB-C1-63	FAC-C1-63		SDB-C1-63	
ø80	LB-C1-80	CB-C1-80	FAC-C1-80		-	
ø100	LB-C1-100	CB-C1-100	FAC-C1-100		-	

	Accessories				Connector	
Code	CB+SDB+PIN ^{*1} (with Pin)	CB+SDB+PIN ^{*1,*2} (with Pin)	TA (Front trunnion)	TB (Rear trunnion)	Y	I
Mounting Tube I.D.						
ø20	CB+SDB+PIN-C1-20	—	TA-C1-20		Y-C1-20	I-C1-20
ø25	CB+SDB+PIN-C1-25	—	TA-C1-25		Y-C1-25	I-C1-25
ø32	CB+SDB+PIN-C1-32	—	TA-C1-32			
ø40	CB+SDB+PIN-C1-40	—	TA-C1-40		Y-C1-40	I-C1-40
ø50	CB+SDB+PIN-C1-50	—	TA-C1-50		Y-C1-50	I-C1-50
ø63	CB+SDB+PIN-C1-63	—	TA-C1-63			
ø80	—	CB+SDB+PIN-C1-80	—		Y-C1-80	I-C1-80
ø100	—	CB+SDB+PIN-C1-100	—		Y-C1-100	I-C1-100

1. Mounting procedures please refer to page 3-90.
2. SDB accessories (Order example SDB-C1-80 / 100).

■ Pin

Rod nut		Applicable	Y&I connector	CB accessories
Code	NUT	Code	PIN-Y-P (With snap ring)	PIN-CB-P (With snap ring)
Mounting Tube I.D.		Fig Tube I.D.		
ø20	NUT-M8x1.25x5Hx13B	ø20	PIN-C1-20-2-P	PIN-C1-20-1-P
ø25	NUT-M10x1.25x6Hx17B	ø25	PIN-C1-25-2-P	PIN-C1-25-1-P
ø32		ø32		PIN-C1-32-1-P
ø40	NUT-M14x1.5x8Hx22B	ø40	PIN-C1-40-2-P	PIN-C1-40-1-P
ø50	NUT-M18x1.5x11Hx26B	ø50	PIN-C1-50-2-P	PIN-C1-50-1-P
ø63		ø63		PIN-C1-63-1-P
ø80	NUT-M22x1.5x13Hx32B	ø80	PIN-C1-80-1-P	
ø100	NUT-M26x1.5x14Hx35B	ø100	PIN-C1-100-1-P	

■ Order example of self-assembled

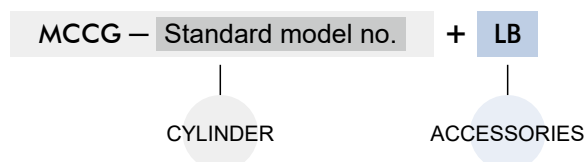
The tube I.D. ø32 of LB accessories, Y connector and pin.

No.	Order number	Qty
1	LB-C1-32	2
2	Y-C1-25	1
3	PIN-C1-25-2-P	1

* To order accessories/ connectors/ pin separately, please place orders separately according to the order codes in the above table.

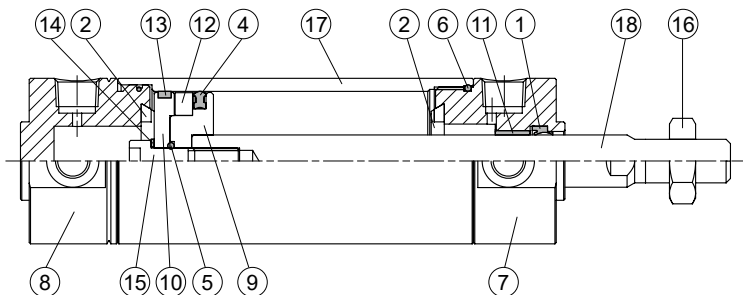
■ Order example of factory assembled

△ Cylinders and accessories are distinguished by the symbol " + ".

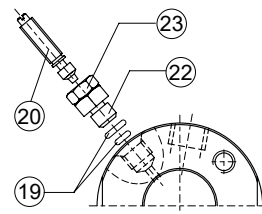


Cushion pad

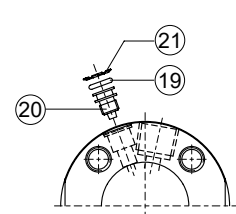
Unadjustable



ø20~ø32

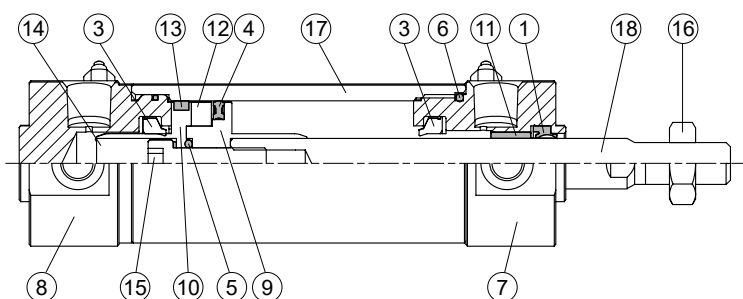


ø50

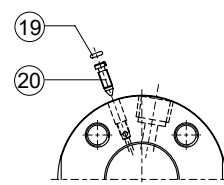


Cushion air

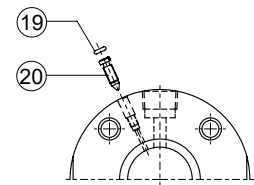
Adjustable



ø40, ø63



ø80, ø100



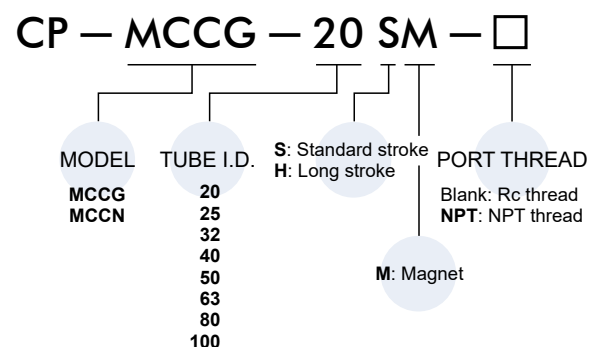
Material

A: Component parts, B: Repair kits

No.	Cushion	Part name	Material	Q'ty	A	B	Note
	Pad	Air			(inclusion)		
1	●	●	Rod packing	NBR	1	●	
2	●	●	Cushion pad	NBR	2	●	
3	●	●	Cushion pad	NBR	2	●	
4	●	●	Piston packing	NBR	1	●	
5	●	●	O-ring	NBR	1	●	
6	●	●	O-ring	NBR	1 or 2	●	ø50~100 (Q'y=2)
7	●	●	Rod cover	Aluminum alloy	1	●	
8	●	●	Head cover	Aluminum alloy	1	●	
9	●	●	Piston-R	Aluminum alloy	1	●	
10	●	●	Piston-H	Aluminum alloy	1	●	
11	●	●	Bush	Bearing alloy	1	●	
12	●	●	Magnet ring	Magnet material	1	◎	◎ Option
			Spacer ring	Aluminum alloy	1	●	for ø20~ø32
13	●	●	Wear ring	Resin	1	●	
14	●	●	Washer	Carbon steel	1	●	ø20 without
15	●	●	Piston bolt	Carbon steel	1	●	
16	●	●	Nut	Carbon steel	1	●	
17	●	●	Cylinder tube	Aluminum alloy	1		
18	●	●	Piston rod	Carbon steel	1		ø20~25 stainless steel
19	●	●	O-ring	NBR	4 or 2		ø40~80 (Q'y=2)
20	●	●	Needle valve	Stainless steel	2		*1
21	●	●	Needle valve packing	Carbon steel	2		only for ø50
22	●	●	Needle valve fixed nut	Stainless steel	2		only for ø20~32
23	●	●	Hex nut	Carbon steel	2		only for ø20~32

*1. ø50: Copper, ø63~100: Carbon steel

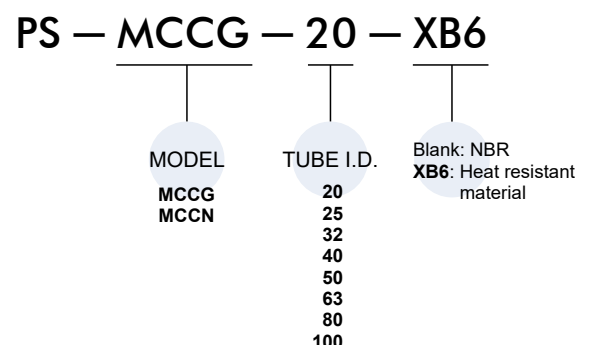
Order example of component parts

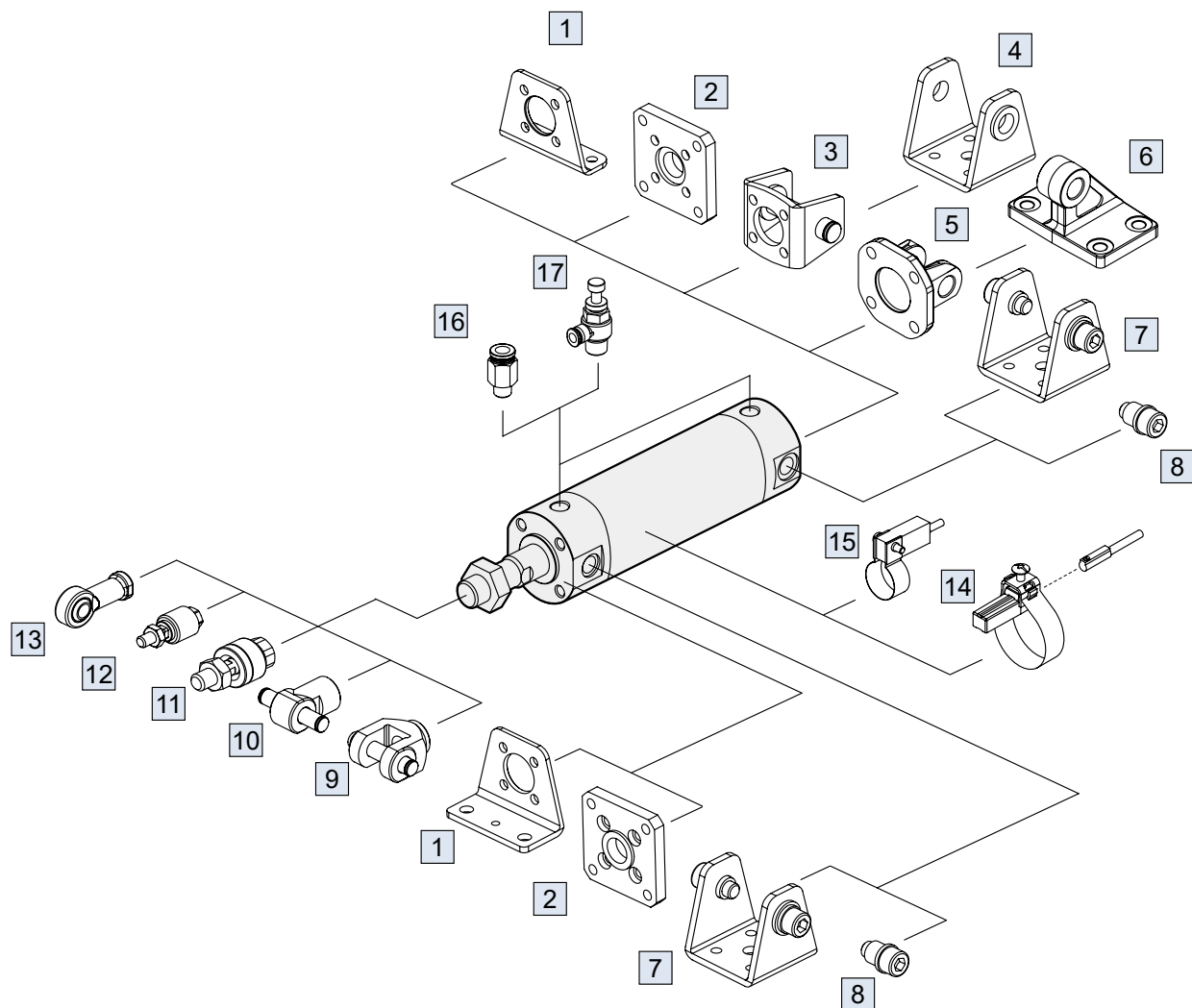


* MCCN only be used for NPT.

* Order example for G thread, please consult us.

Order example of repair kits





No.	Accessories	Material	Page link
1	Mounting accessories LB	Carbon steel	Link
2	Mounting accessories FAC/FBC	Carbon steel	Link
3	Mounting accessories CB+PIN *1	Carbon steel	Link , Link
4	Mounting accessories SDB *1	Carbon steel	Link
5	Mounting accessories CB+PIN *2	Cast iron / *3	Link , Link
6	Mounting accessories SDB *2	Cast iron	Link
7	Mounting accessories SDB-R/H	Carbon steel	Link
8	Mounting accessories TA/TB	Carbon steel	Link

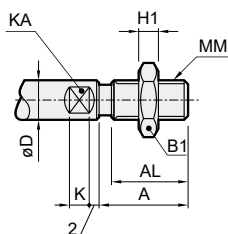
*1. For tube I.D. ø20~63.

*2. For tube I.D. ø80,100.

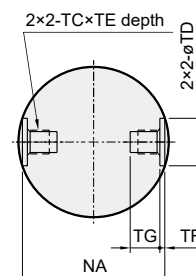
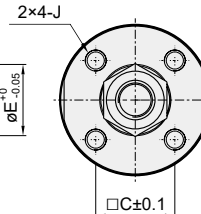
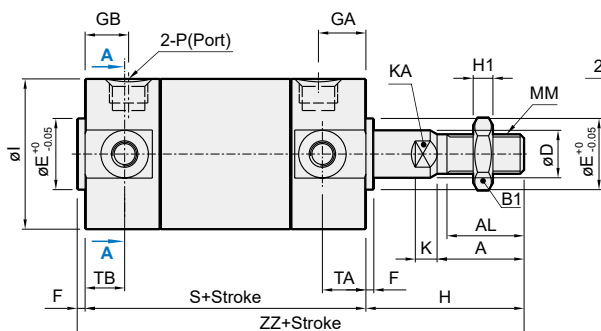
*3. PIN material is carbon steel.

No.	Accessories	Material	Page link
9	Accessories Y+PIN	Carbon steel	Link
10	Accessories I+PIN	Carbon steel	Link
11	Floating joint MFC	Carbon steel	Link
12	Floating joint MFCS	Carbon steel	Link
13	Female rod ends PHS	Carbon steel	Link
14	Sensor switch R*C+BKC-1	—	Link
15	Sensor switch RCM+BMG**	—	Link
16	Fitting PC (PISCO)	—	Link
17	Speed controller JSC (PISCO)	—	Link

$\phi 20, \phi 25$



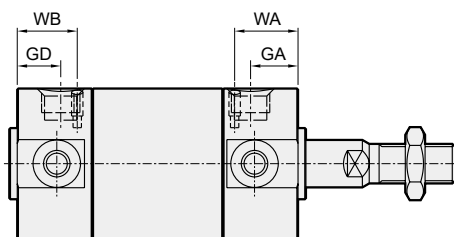
$\phi 32 \sim \phi 100$



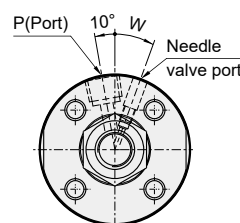
A-A

■ With cushion air (Adjustable)

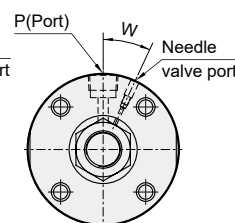
A



$\phi 20 \sim \phi 63$



$\phi 80, \phi 100$

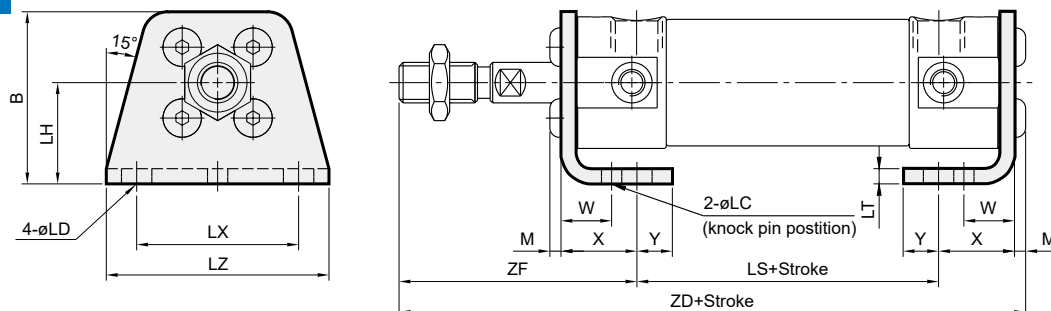


Code Tube I.D.	Standard stroke range	Long stroke range	A	AL	B1	C	D	E	F	GA	GB	GD	H	H1	I	J	K	KA
20	~200	201~350	18	15.5	13	14	8	12	2	12	12 (12)	12 (12)	35	5	26	M4×0.7×7 dp	4	6
25	~300	301~400	22	19.5	17	16.5	10	14	2	12	12 (12)	12 (12)	40	6	31	M5×0.8×7.5 dp	5	8
32	~300	301~450	22	19.5	17	20	12	18	2	12	11 (12)	11 (12)	40	6	38	M5×0.8×8 dp	5.5	10
40	~300	301~800	30	27	22	26	16	25	2	13	12 (13)	10 (13)	50	8	47	M6×1.0×12 dp	6	14
50	~300	301~1200	35	32	26	32	20	30	2	14	13 (13)	12 (14)	58	11	58	M8×1.25×16 dp	7	18
63	~300	301~700	35	32	26	38	20	32	2	14	13 (13)	12 (14)	58	11	72	M10×1.5×16 dp	7	18
80	~300	301~700	40	37	32	50	25	40	3	20	16 (16)	16 (16)	71	13	89	M10×1.5×22 dp	10	22
100	~300	301~700	40	37	35	60	30	50	3	20	16 (16)	16 (16)	71	14	110	M12×1.75×22 dp	10	26

Code Tube I.D.	MM	NA	P	S	TA	TB	TC	TDH9	TE	TF	TG	W	WA	WB	ZZ
20	M8×1.25	24	Rc1/8	69(77)	11	11 (11)	M5×0.8	8 ^{+0.036} ₋₀	4	0.5	5.5	40°	14	14 (14)	106 (114)
25	M10×1.25	29	Rc1/8	69(77)	11	11 (11)	M6×0.75	10 ^{+0.036} ₋₀	5	1	6.5	40°	14	13 (13)	111 (119)
32	M10×1.25	36	Rc1/8	71(79)	11	10 (11)	M8×1.0	12 ^{+0.043} ₋₀	5.5	1.25	7.5	30°	14	13 (13)	113 (121)
40	M14×1.5	44	Rc1/8	78(87)	12	10 (12)	M10×1.25	14 ^{+0.043} ₋₀	6	1.25	8	20°	16	15 (16)	130 (139)
50	M18×1.5	55	Rc1/4	90(102)	13	12 (13)	M12×1.25	16 ^{+0.043} ₋₀	7.5	2	10	20°	16	16 (16)	150 (162)
63	M18×1.5	69	Rc1/4	90(102)	13	12 (13)	M14×1.5	18 ^{+0.043} ₋₀	11.5	3	14.5	20°	18	18 (18)	150 (162)
80	M22×1.5	86	RC3/8	108(122)	—	—	—	—	—	—	—	25°	24	20 (20)	182 (196)
100	M26×1.5	106	RC1/2	108(122)	—	—	—	—	—	—	—	25°	24	20 (20)	182 (196)

(): Dimension for long stroke.

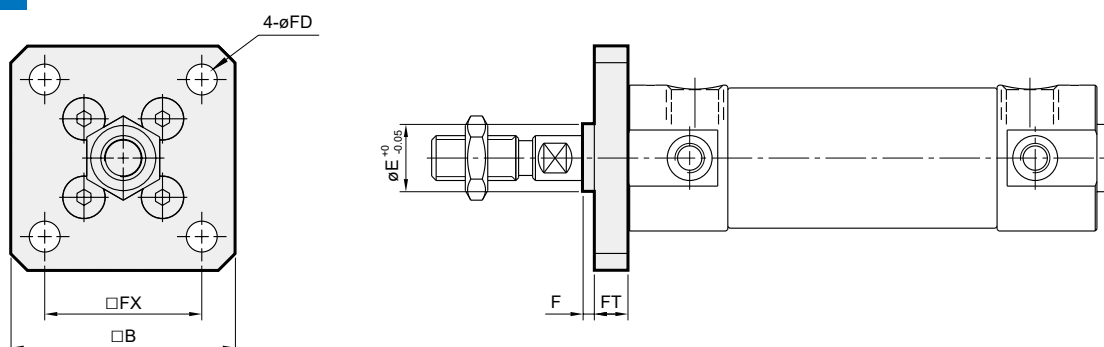
LB



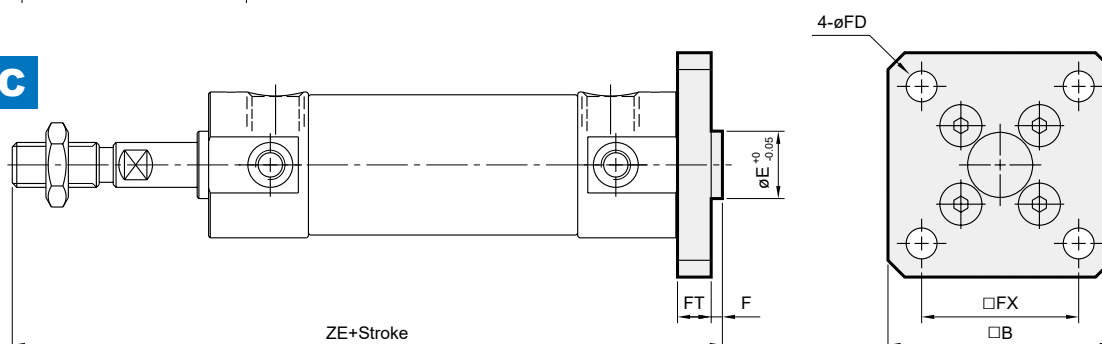
Code Tube I.D.	B	LC	LD	LH	LS	LT	LX	LZ	M	W	X	Y	ZD	ZF
20	34	4	6	20	45 (53)	3	32	44	2.2	10	15	7	109.2 (117.2)	47
25	38.5	4	6	22	45 (53)	3	36	49	2.8	10	15	7	114.8 (122.8)	52
32	45	4	6.6	25	45 (53)	3	44	58	2.8	10	16	8	116.8 (124.8)	53
40	54.5	4	6.6	30	51 (60)	3	54	71	3.3	10	16.5	8.5	134.3 (143.3)	63.5
50	70.5	5	9	40	55 (67)	4.5	66	86	4.4	17.5	22	11	156.9 (168.9)	75.5
63	82.5	5	11	45	55 (67)	4.5	82	106	5.5	17.5	22	13	158.0 (170.0)	75.5
80	101	6	11	55	60 (74)	4.5	100	125	5.5	20	28.5	14	189.0 (203.0)	95.0
100	121	6	14	65	60 (74)	6	120	150	6.2	20	30	16	192.2 (206.2)	95.0

(): Dimension for long stroke.

FAC



FBC

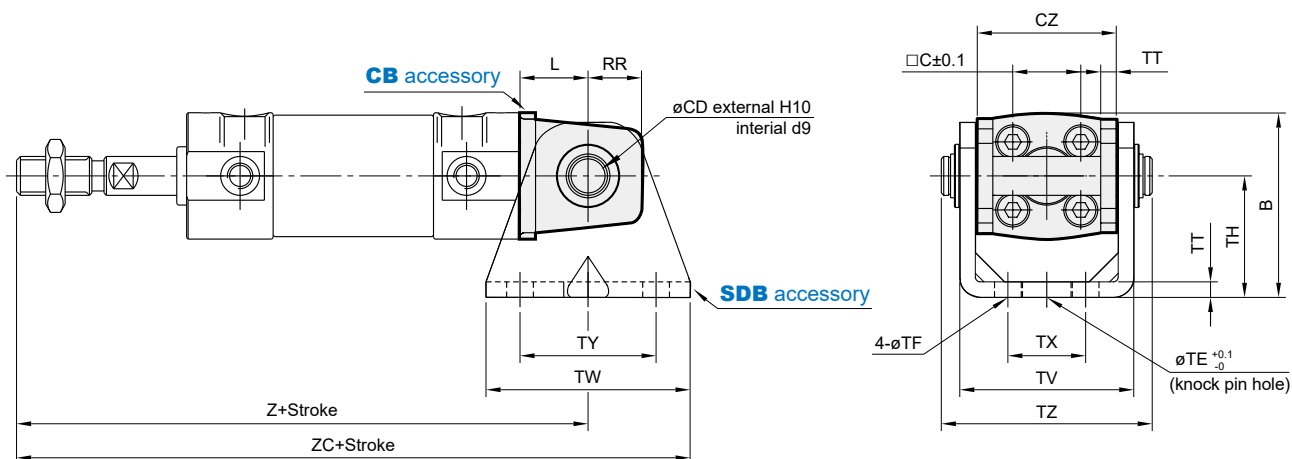


Code Tube I.D.	B	E	F	FX	FD	FT	ZE
20	40	12	2	28	5.5	6	112 (120)
25	44	14	2	32	5.5	7	118 (126)
32	53	18	2	38	6.6	7	120 (128)
40	61	25	2	46	6.6	8	138 (147)
50	76	30	2	58	9	9	159 (171)
63	92	32	2	70	11	9	159 (171)
80	104	40	3	82	11	11	193 (207)
100	128	50	3	100	14	14	196 (210)

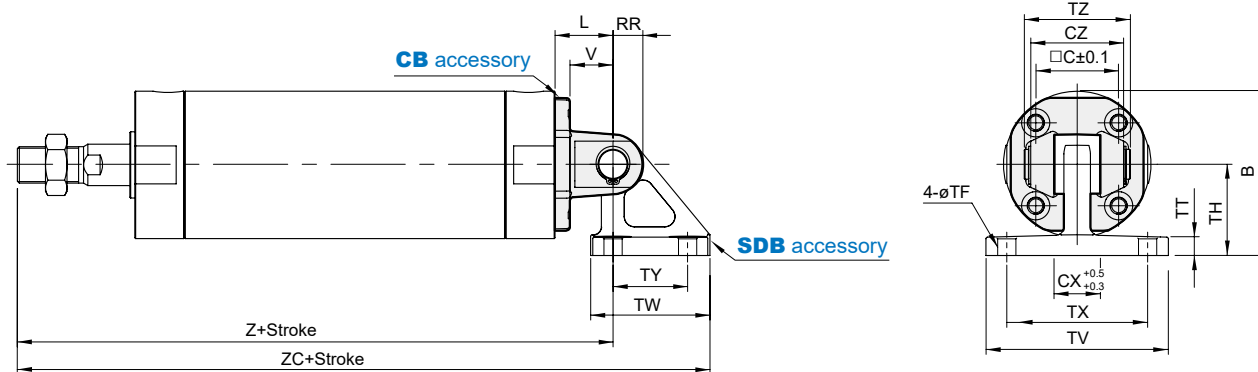
(): Dimension for long stroke.

CB SDB+Pin (Extra purchase)

$\varnothing 20 \sim 63$



$\varnothing 80, 100$

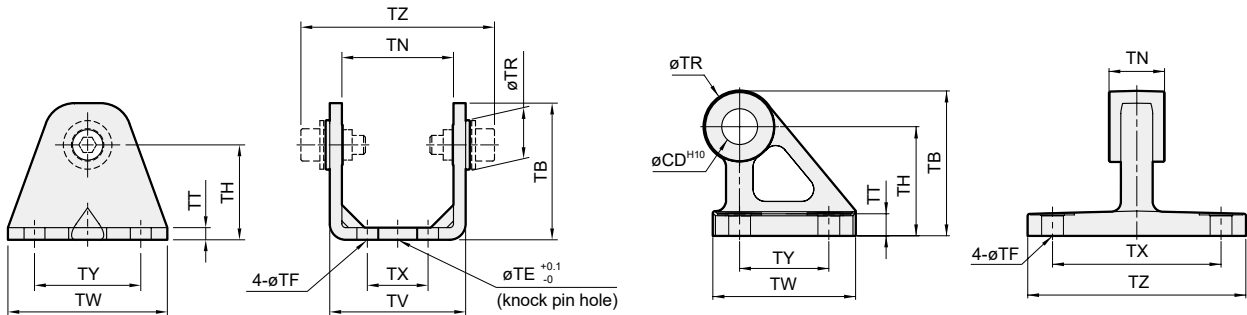


Code Tube I.D.	B	C	CD	CX	CZ	L	RR	V	TE	TF	TH	TT	TV	TW	TX	TY	TZ	Z	ZC
20	38	14	8	—	29	14	11	—	10	5.5	25	3.2	35.8	42	16	28	43.4	118 (126)	139 (147)
25	45.5	16.5	10	—	33	16	13	—	10	5.5	30	3.2	39.8	42	20	28	48	125 (133)	146 (154)
32	54	20	12	—	40	20	15	—	10	6.6	35	4.5	49.4	48	22	28	59.4	131 (139)	155 (163)
40	63.5	26	14	—	49	22	18	—	10	6.6	40	4.5	58.4	56	30	30	71.4	150 (159)	178 (187)
50	79	32	16	—	60	25	20	—	20	9	50	6	72.4	64	36	36	86	173 (185)	205 (217)
63	96	38	18	—	74	30	22	—	20	11	60	8	90.4	74	46	46	105.4	178 (190)	215 (227)
80	99.5	50	18	28	56	35	18	26	—	11	55	11	110	72	85	45	64	214 (228)	272.5 (286.5)
100	120	60	22	32	64	43	22	32	—	13.5	65	12	130	93	100	60	72	222 (236)	298.5 (312.5)

(): Dimension for long stroke.

SDB $\phi 20 \sim 63$ TA / TB (Extra purchase)

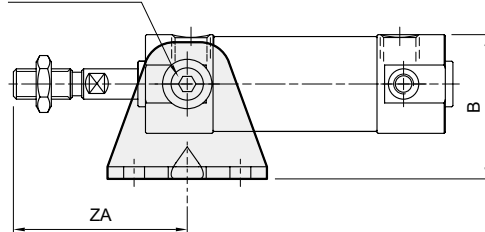
$\phi 80, 100$



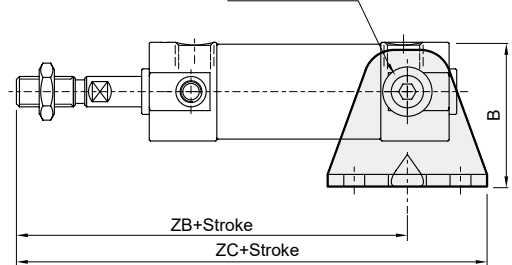
SDB-R $\phi 20 \sim 63$

SDB-H $\phi 20 \sim 63$

TA accessory



TB accessory



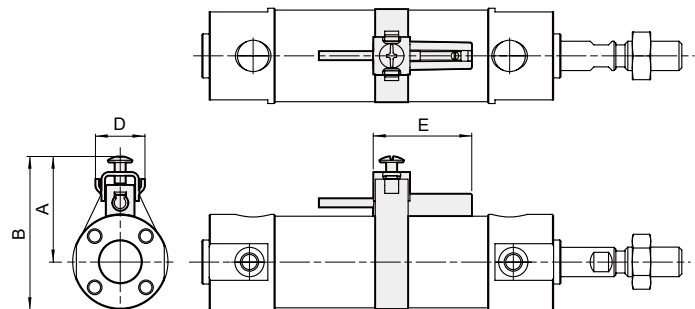
Code Tube I.D.	B	CD	TB	TE	TF	TH	TN	TR	TT	TV	TW	TX	TY	TZ	ZA	ZB	ZC	Applicable pin O.D.
20	38	—	36	10	5.5	25	29.3	14	3.2	35.8	42	16	28	51	46	93(101)	114(122)	8d9 -0.040 -0.076
25	45.5	—	43	10	5.5	30	33.1	16	3.2	39.8	42	20	28	58.2	51	98(106)	119(127)	10d9 -0.040 -0.076
32	54	—	50	10	6.6	35	40.4	18	4.5	49.4	48	22	28	71.5	51	101(108)	125(132)	12d9 -0.050 -0.093
40	63.5	—	58	10	6.6	40	49.2	22	4.5	58.4	56	30	30	88.5	62	118(125)	146(153)	14d9 -0.050 -0.093
50	79	—	70	20	9	50	60.4	25	6	72.4	64	36	36	109	71	136(147)	168(179)	16d9 -0.050 -0.093
63	96	—	82	20	11	60	74.6	27	8	90.4	74	46	46	131	71	136(147)	173(184)	18d9 -0.050 -0.093
80	—	18	73	—	11	55	28	36	11	—	72	85	45	110	—	—	—	18d9 -0.050 -0.093
100	—	22	90	—	13.5	65	32	50	12	—	93	100	60	130	—	—	—	22d9 -0.065 -0.117

(): Dimension for long stroke.

Installation of sensor switch

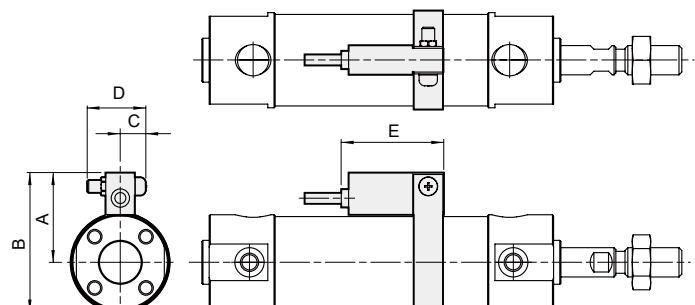
Sensor switch: R*C (Band: BKC-1)

Code Tube I.D.	A	B	D	E
20	28.5	41.5	13.5	27
25	31	46.5	13.5	27
32	35	54	13.5	27
40	39.5	63	13.5	27
50	45	74	13.5	27
63	52	88	13.5	27

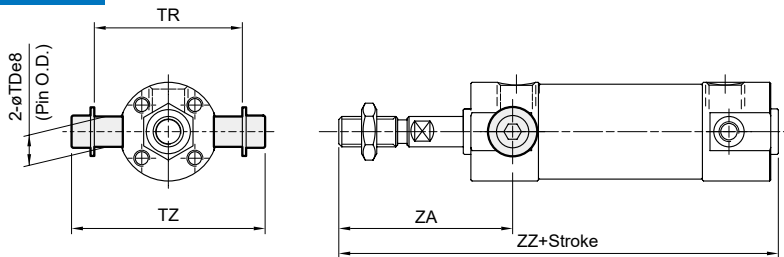


Sensor switch: RCM (Band: BMG**)

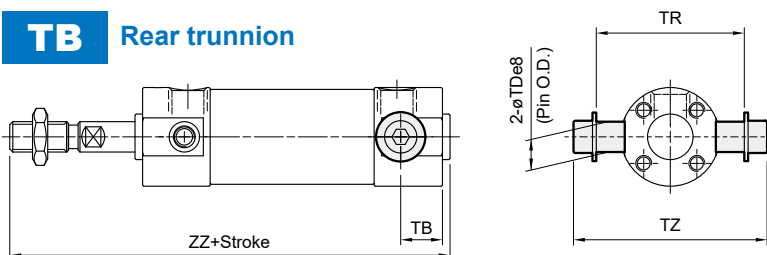
Code Tube I.D.	A	B	C	D	E
20	24	37.5	7	16	28
25	26.5	42.5	7	16	28
32	30.5	50.5	7	16	28
40	35	59.5	7	16	28
50	40.5	70.5	7	16	28
63	47.5	84.5	7	16	28
80	56	101.5	7	16	28
100	66.5	122.5	7	16	28



TA Front trunnion



TB Rear trunnion

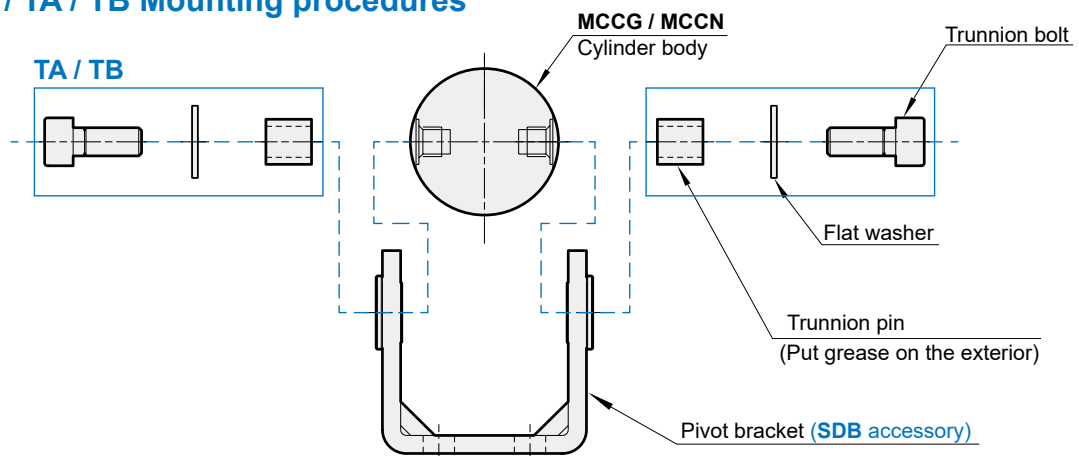


Code Tube I.D.	TB	TDe8	TR	TZ	ZA	ZZ
20	11(11)	8 $\begin{smallmatrix} -0.025 \\ -0.047 \end{smallmatrix}$	39	51	46	106 (114)
25	11(11)	10 $\begin{smallmatrix} -0.025 \\ -0.047 \end{smallmatrix}$	43	58.2	51	111 (119)
32	10(11)	12 $\begin{smallmatrix} -0.032 \\ -0.059 \end{smallmatrix}$	53.5	71.5	51	113 (121)
40	10(12)	14 $\begin{smallmatrix} -0.032 \\ -0.059 \end{smallmatrix}$	64.5	88.5	62	130 (139)
50	12(13)	16 $\begin{smallmatrix} -0.032 \\ -0.059 \end{smallmatrix}$	80	109	71	150 (162)
63	12(13)	18 $\begin{smallmatrix} -0.032 \\ -0.059 \end{smallmatrix}$	98	131	71	150 (162)

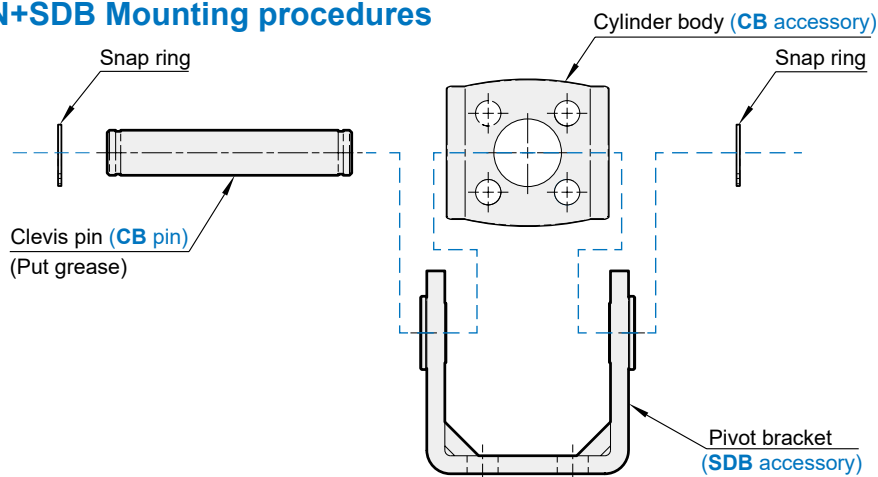
(): Dimension for long stroke.

MCCG / MCCN

SDB-R(H) / TA / TB Mounting procedures



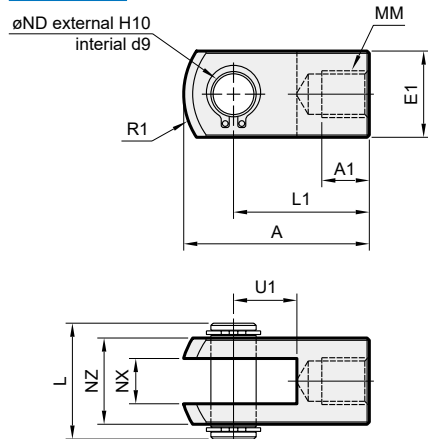
CB+PIN+SDB Mounting procedures



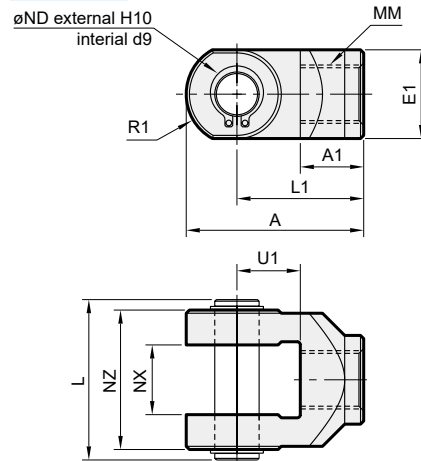
ROUND CYLINDER

Y connector

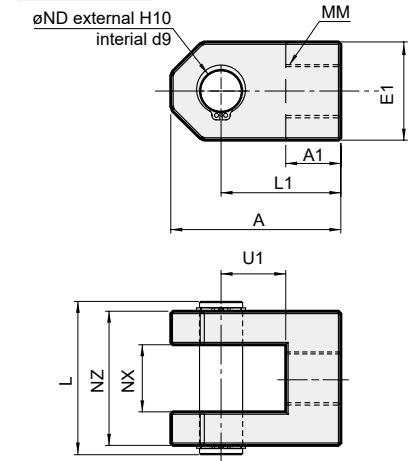
$\phi 20 \sim \phi 32$



$\phi 40 \sim \phi 63$



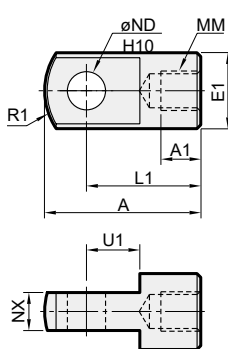
$\phi 80, \phi 100$



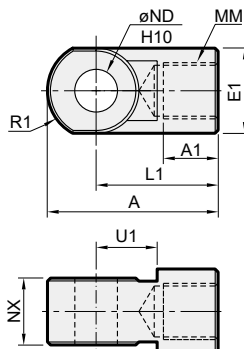
Code Tube I.D.	A	A1	E1	L	L1	MM	R1	U1	ND	NX	NZ
20	34	8.5	16	21	25	M8×1.25	14	11.5	8	8 ^{+0.4} _{+0.2}	15.88
25,32	41	10.5	20	25.6	30	M10×1.25	18	14	10	10 ^{+0.4} _{+0.2}	19.05
40	42	16	20	41.6	30	M14×1.5	12	14	10	18 ^{+0.5} _{+0.3}	36
50,63	56	20	25	50.6	40	M18×1.5	16	20	14	22 ^{+0.5} _{+0.3}	44
80	71	23	41	64	50	M22×1.5	—	26	18	28 ^{+0.5} _{+0.3}	56
100	79	24	47	72	55	M26×1.5	—	30	22	32 ^{+0.5} _{+0.3}	64

I connector

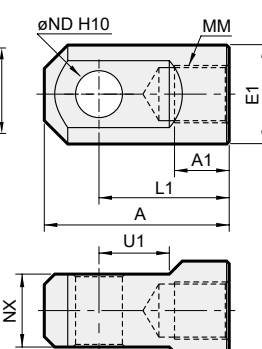
$\phi 20 \sim \phi 32$



$\phi 40 \sim \phi 63$

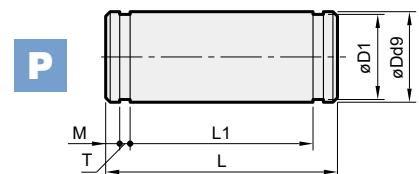


$\phi 80, \phi 100$



Code Tube I.D.	A	A1	E1	L1	MM	R1	U1	ND _{H10}	NX
20	34	8.5	16	25	M8×1.25	14	11.5	8 ^{+0.058} ₀	8 ^{-0.2} _{-0.4}
25,32	41	10.5	20	30	M10×1.25	18	14	10 ^{+0.058} ₀	10 ^{-0.2} _{-0.4}
40	42	14	22	30	M14×1.5	12	14	10 ^{+0.058} ₀	18 ^{-0.3} _{-0.5}
50,63	56	18	28	40	M18×1.5	16	20	14 ^{+0.070} ₀	22 ^{-0.3} _{-0.5}
80	71	21	38	50	M22×1.5	—	27	18 ^{-0.070} ₀	28 ^{-0.3} _{-0.5}
100	79	21	45	55	M26×1.5	—	31	22 ^{-0.084} ₀	32 ^{-0.3} _{-0.5}

PIN



for CB

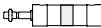
Code Tube I.D.	Dd9	D1	L	L1	M	T	Snap ring
20	8 ^{-0.04} _{-0.08}	7.6	43.4	38.6	1.5	0.9	STW-8
25	10 ^{-0.04} _{-0.08}	9.6	48	42.6	1.55	1.15	STW-10
32	12 ^{-0.05} _{-0.09}	11.5	59.4	54	1.55	1.15	STW-12
40	14 ^{-0.05} _{-0.09}	13.4	71.4	65	2.05	1.15	STW-14
50	16 ^{-0.05} _{-0.09}	15.2	86	79.6	2.05	1.15	STW-16
63	18 ^{-0.05} _{-0.09}	17.0	105.4	97.8	2.45	1.35	STW-18
80	18 ^{-0.05} _{-0.09}	17	64	56.2	2.55	1.35	STW-18
100	22 ^{-0.06} _{-0.11}	21	72	64.2	2.55	1.35	STW-22

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
80	18 ^{-0.05} _{-0.09}	17	64	56.2	2.55	1.35	STW-18
100	22 ^{-0.06} _{-0.11}	21	72	64.2	2.55	1.35	STW-22

Cylinder weight

Unit: kg

Model	Stroke	Basic weight		Basic weight (magnet)		Stroke 25 mm
		MCCG-11	MCCG-11-A	MCCG-11-M	MCCG-11-M-A	
Tube I.D.						
20	~200	0.107	0.112	0.108	0.113	0.022
	201~350	0.117	0.122	0.118	0.123	
25	~300	0.165	0.165	0.166	0.166	0.03
	301~400	0.178	0.178	0.179	0.179	
32	~300	0.233	0.237	0.234	0.238	0.043
	301~450	0.261	0.265	0.262	0.266	
40	~300	0.402	0.413	0.414	0.425	0.067
	301~800	0.44	0.451	0.452	0.463	
50	~300	0.753	0.782	0.77	0.799	0.1
	301~1200	0.838	0.867	0.855	0.884	
63	~300	1.058	1.076	1.078	1.096	0.119
	301~700	1.192	1.21	1.212	1.23	
80	~300	2.007	2.054	2.034	2.081	0.166
	301~700	2.227	2.274	2.254	2.301	
100	~300	3.015	3.094	3.05	3.129	0.234
	301~700	3.348	3.427	3.383	3.462	

Accessories weight

Model	LB	CB	FAC / FBC	SDB	TA / TB	Y	I	PIN-Y-P (With snap ring)	PIN-CB-P (With snap ring)	Rod nut
Tube I.D.										
20	0.0434	0.037	0.066	0.089	0.012	0.0352	0.0318	0.0088	0.0174	0.004
25	0.0543	0.051	0.092	0.111	0.018	0.0622	0.0598	0.0164	0.03	0.008
32	0.072	0.096	0.136	0.202	0.038				0.053	
40	0.089	0.147	0.208	0.311	0.068	0.093	0.07	0.0262	0.086	0.016
50	0.24	0.272	0.364	0.545	0.114	0.182	0.151	0.0618	0.135	0.032
63	0.352	0.488	0.521	0.725	0.176				0.2116	
80	0.45	0.57	0.786	0.933	—	0.68	0.4	0.125		0.049
100	0.814	1.075	1.542	1.719	—	0.976	0.614	0.19		0.056