

MCMB series

MINIATURE CYLINDERS



Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke
φ 20, 25, 32, 40	25, 50, 75, 100, 125, 150, 200, 250, 300	900

Features:

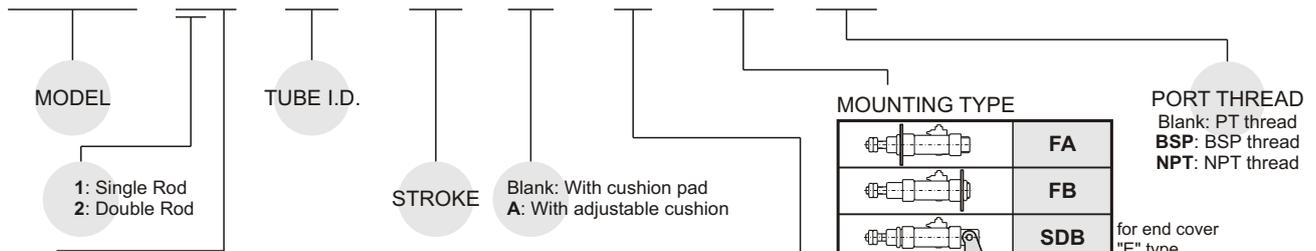
- Non-lubrication:**
 Designs of oil-filled alloy, special housing and bushing provide the needed self-lubrication of piston rod.
- High quality-long service life:**
 Stainless cylinder tubes resist corrosion and abrasion.
- Cylinder mountings:**
 Available with a comprehensive selection of mountings for fixed or flexible installation.
- Standard with magnet:**

Model	MCMB			
Tube I.D. (mm)	20	25	32	40
Port size	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			
Available speed range	-5~+60°C (No freezing)			
Ambient temperature	Not required			
Lubricator	50~500mm/sec			
Sensor switch	RCA, RCM			
Sensor switch band	BA20	BA25	BA32	BA40
	BGS20	BGS25	BGS32	BGS40
	BM20	BM25	BM32	BM40

● Senser switch band BM** only for RCM.

Order example:

MCMB - 11 - 20 - 50 - A - N - FA - BSP



STYLE:

Code	Symbol	Description
1 1		Double acting / Male thread
1 3		Single acting / Normally extended male thread
1 5		Single acting / Normally returned male thread
2 1		Dual rod / Male thread
2 7		Dual rod / Adjustable male thread Please mark "adjustable distance(mm)" at order list

Single acting type: Please consult us.

MOUNTING TYPE

	FA
	FB
	SDB
	LB
	CA
	CB
	TA
	TB

for end cover "E" type

END COVER TYPE:

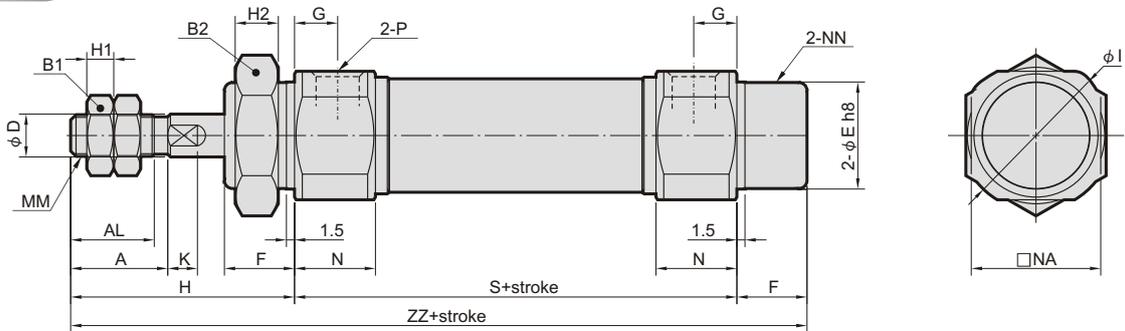
Code	Symbol	Description
Blank		Standard type
N		End-plain
E		With pivot type

MCMB Double acting $\phi 20 \sim \phi 40$

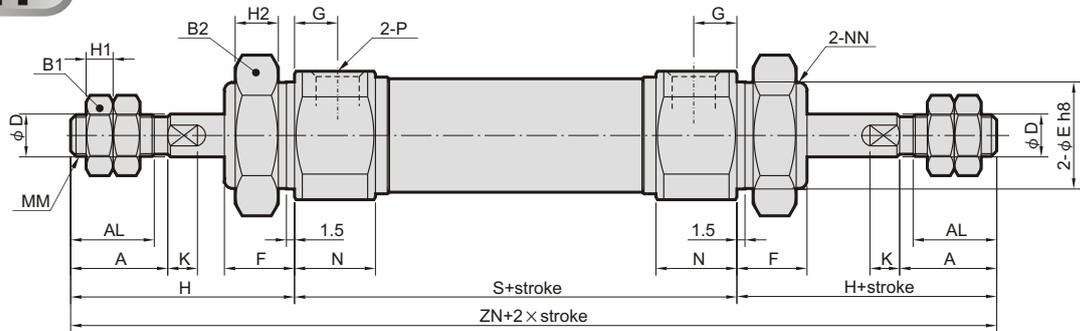
MINIATURE CYLINDERS



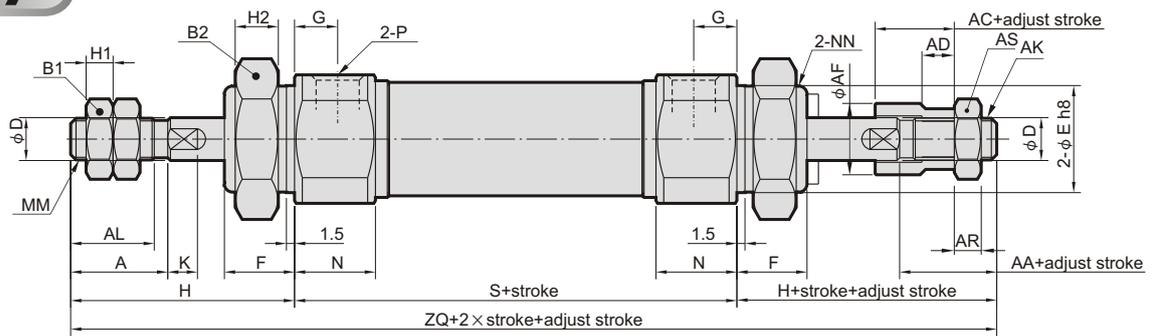
11



21



27



(mm)

Code Tube I.D.	A	AA	AC	AD	AF	AK	AL	AR	AS	B1	B2	D	E	F	G	H	H1	H2	I	K	MM	N	NA
20	18	17.5	15	9.5	16	M8 × 1.25	15.5	5	13	13	26	8	20 ⁰ _{-0.03}	13	8	41	5	8	28	5	M8 × 1.25	15	24
25	22	17.5	15	9.5	16	M8 × 1.25	19.5	6	17	17	32	10	26 ⁰ _{-0.03}	13	8	45	6	8	33.5	5.5	M10 × 1.25	15	30
32	22	16	12	7	20	M10 × 1.25	19.5	6	17	17	32	12	26 ⁰ _{-0.03}	13	8	45	6	8	37.5	5.5	M10 × 1.25	15	34.5
40	24	15.5	12	7	30	M12 × 1.25	21	7	19	22	41	14	32 ⁰ _{-0.04}	16	11	50	8	10	46.5	7	M14 × 1.5	21.5	42.5

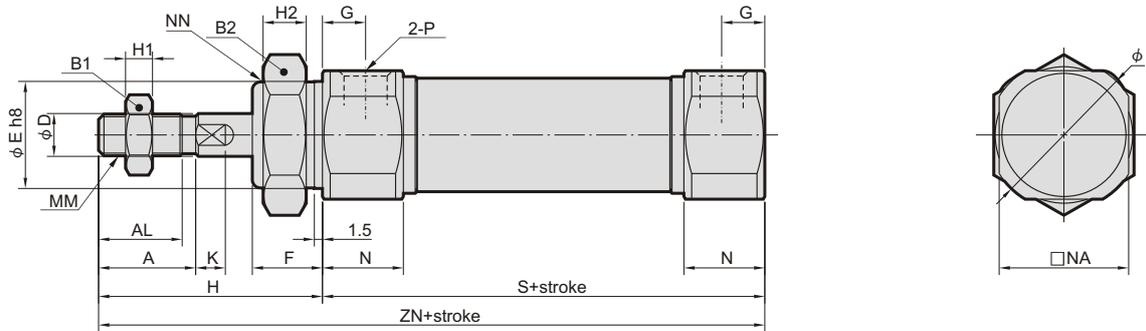
Code Tube I.D.	NN	P	S	ZM	ZN	ZQ	ZZ
20	M20 × 1.5	PT 1/8	62	144	144	141	116
25	M26 × 1.5	PT 1/8	62	152	152	146	120
32	M26 × 1.5	PT 1/8	64	154	154	145	122
40	M32 × 2.0	PT 1/4	88	188	188	198	154

MCMB Double acting $\phi 20 \sim \phi 40$

MINIATURE CYLINDERS



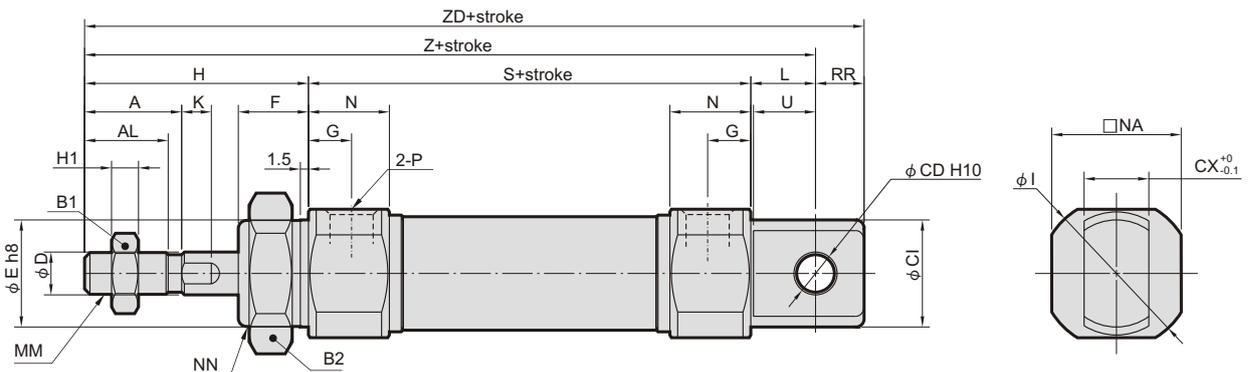
N



(mm)

Code Tube I.D.	A	AL	B1	B2	D	E	F	G	H	H1	H2	I	K	MM	N	NA	NN	P	S	ZN
20	18	15.5	13	26	8	20 ⁰ _{-0.03}	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	PT 1/8	62	103
25	22	19.5	17	32	10	26 ⁰ _{-0.03}	13	8	45	6	8	33.5	5.5	M10×1.25	15	30	M26×1.5	PT 1/8	62	107
32	22	19.5	17	32	12	26 ⁰ _{-0.03}	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	PT 1/8	64	109
40	24	21	22	41	14	32 ⁰ _{-0.04}	16	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2.0	PT 1/4	88	138

E

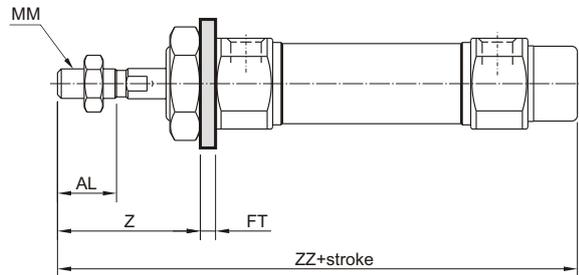
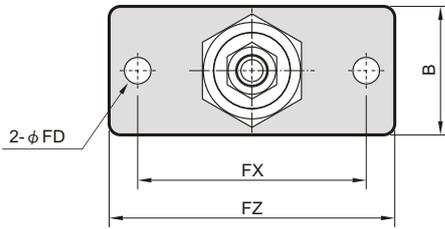


(mm)

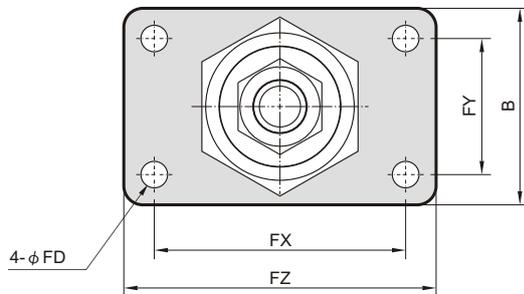
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20	18	15.5	13	26	8	12	20	8	20 ⁰ _{-0.03}	13	8	41	5	28	5	12	M8×1.25	15	24	M20×1.5	PT1/8	9	62	11.5	115	124
25	22	19.5	17	32	8	12	22	10	26 ⁰ _{-0.03}	13	8	45	6	33.5	5.5	12	M10×1.25	15	30	M26×1.5	PT1/8	9	62	11.5	119	128
32	22	19.5	17	32	10	20	27	12	26 ⁰ _{-0.03}	13	8	45	6	37.5	5.5	15	M10×1.25	15	34.5	M26×1.5	PT1/8	12	64	14.5	124	136
40	24	21	22	41	10	20	33	14	32 ⁰ _{-0.04}	16	11	50	8	46.5	7	15	M14×1.5	21.5	42.5	M32×2.0	PT1/4	12	88	14.5	153	165

FA

$\phi 20 \sim \phi 32$



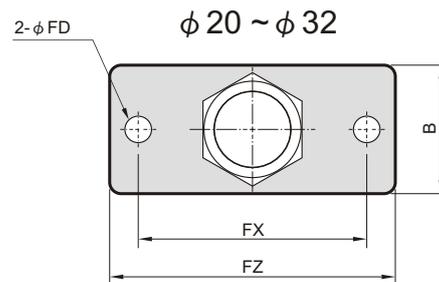
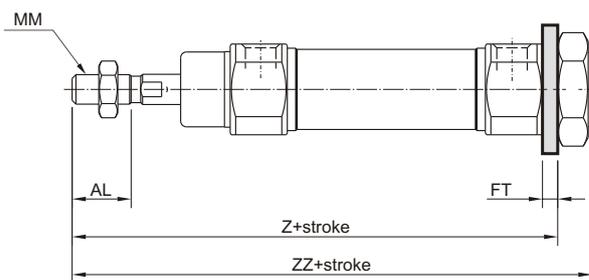
$\phi 40$



Code Tube I.D.	AL	B	FD	FT	FX	FY	FZ	MM	Z	ZZ
20	15.5	34	7	4	60	-	75	M8×1.25	37	116
25	19.5	40	7	4	60	-	75	M10×1.25	41	120
32	19.5	40	7	4	60	-	75	M10×1.25	41	122
40	21	52	7	5	66	36	82	M14×1.5	45	154

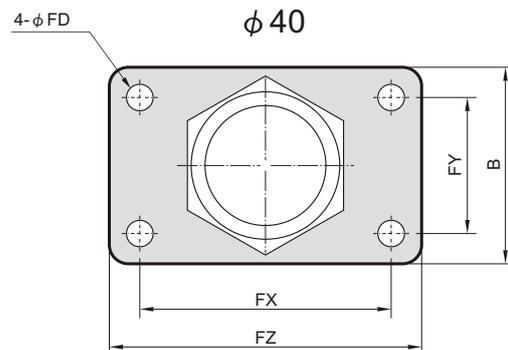
(mm)

FB

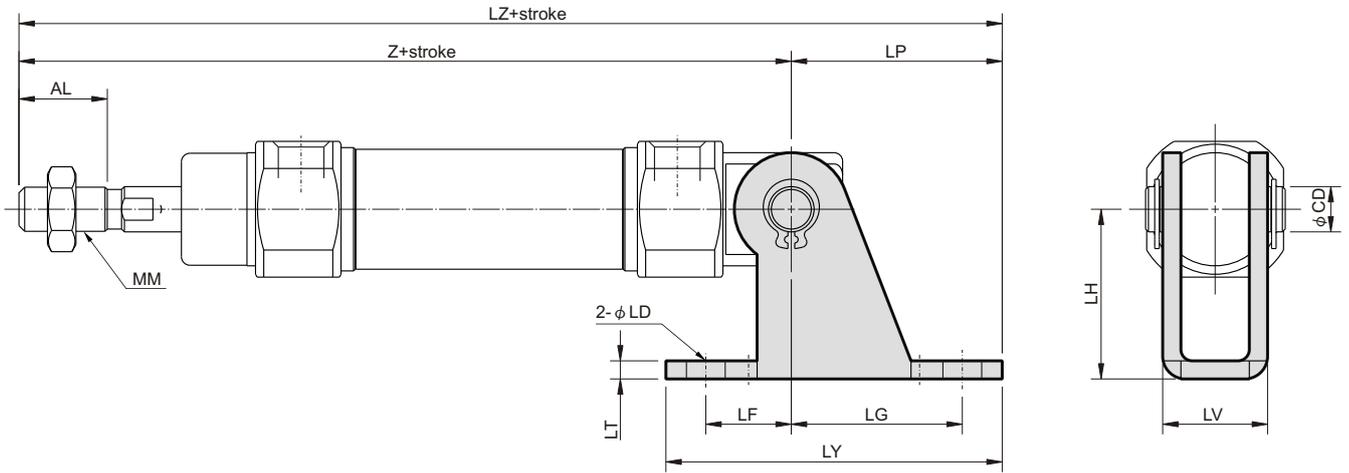


Code Tube I.D.	AL	B	FD	FT	FX	FY	FZ	MM	Z	ZZ
20	15.5	34	7	4	60	-	75	M8×1.25	107	116
25	19.5	40	7	4	60	-	75	M10×1.25	111	120
32	19.5	40	7	4	60	-	75	M10×1.25	113	122
40	21	52	7	5	66	36	82	M14×1.5	143	154

(mm)



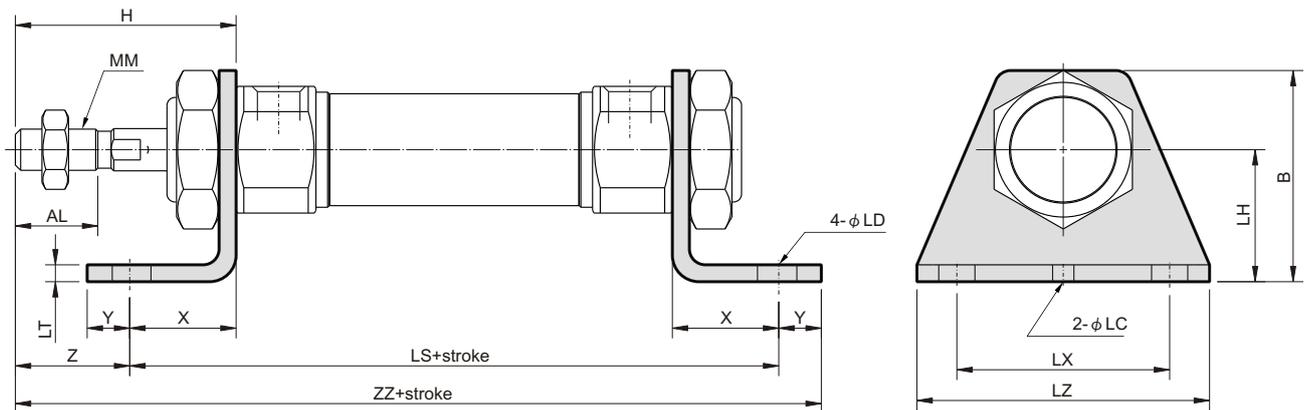
SDB



(mm)

Code Tube I.D.	AL	CD	LD	LF	LG	LH	LP	LT	LV	LY	LZ	MM	N	Z
20	15.5	8	6.8	15	30	30	37	3.2	18.4	59	152	M8×1.25	15	115
25	19.5	8	6.8	15	30	30	37	3.2	18.4	59	156	M10×1.25	15	119
32	19.5	10	9	15	40	40	50	4	28	75	174	M10×1.25	15	124
40	21	10	9	15	40	40	50	4	28	75	203	M14×1.5	21.5	153

LB



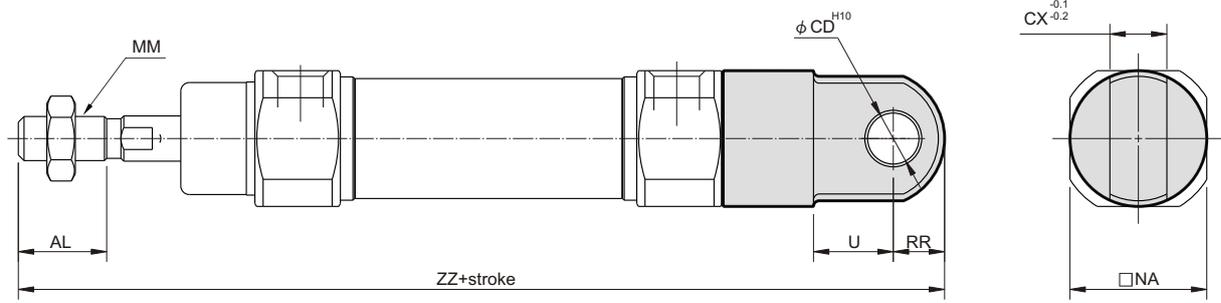
(mm)

Code Tube I.D.	AL	B	H	LC	LD	LH	LS	LT	LX	LZ	MM	X	Y	Z	ZZ
20	15.5	40	41	4	6.8	25	102	3.2	40	55	M8×1.25	20	8	21	131
25	19.5	47	45	4	6.8	28	102	3.2	40	55	M10×1.25	20	8	25	135
32	19.5	47	45	4	6.8	28	104	3.2	40	55	M10×1.25	20	8	25	137
40	21	54	50	4	7	30	134	3.2	55	75	M14×1.5	23	10	27	171

MCMB Double acting MINIATURE CYLINDERS



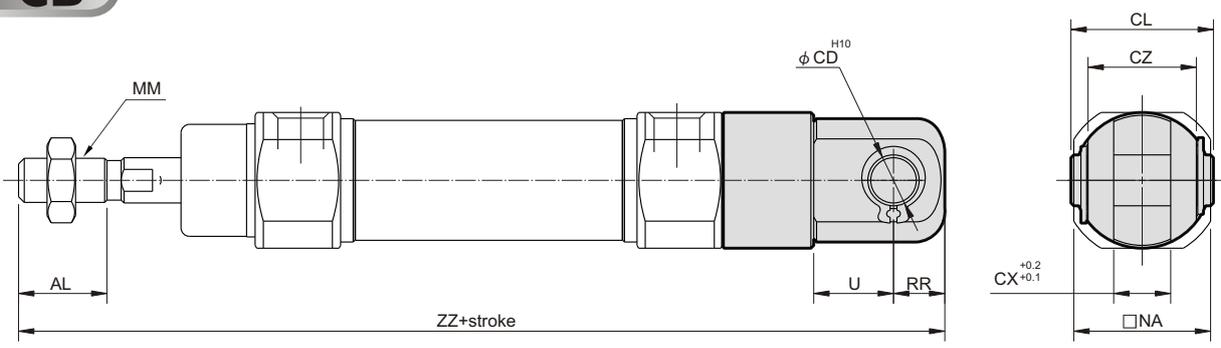
CA



(mm)

Code Tube I.D.	AL	CD	CX	MM	NA	RR	U	ZZ
20	15.5	9	10	M8 × 1.25	24	9	14	142
25	19.5	9	10	M10 × 1.25	30	9	14	146
32	19.5	9	10	M10 × 1.25	34.5	9	14	148
40	21	10	15	M14 × 1.5	42.5	11	18	188

CB



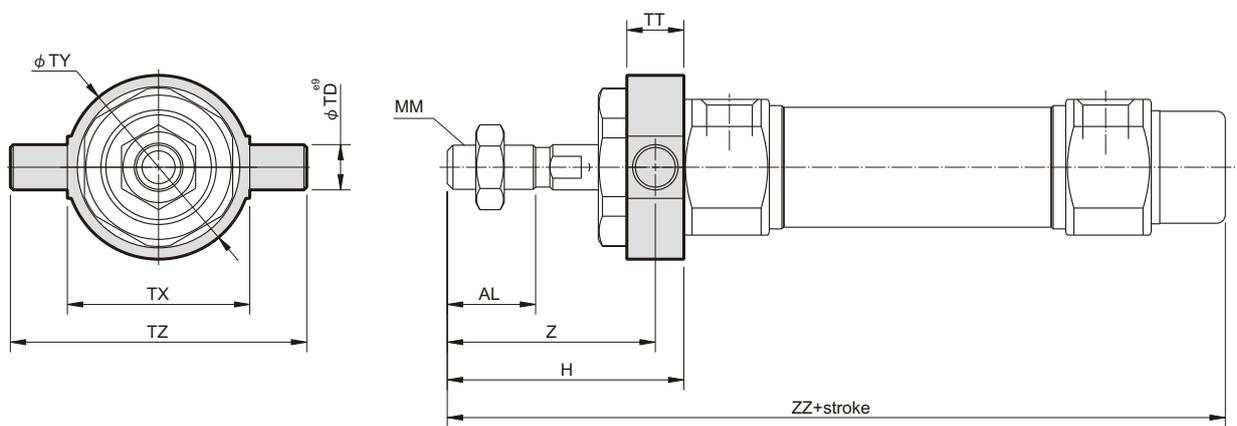
(mm)

Code Tube I.D.	AL	CD	CL	CX	CZ	MM	NA	RR	U	ZZ
20	15.5	9	25	10	19	M8 × 1.25	24	9	14	142
25	19.5	9	25	10	19	M10 × 1.25	30	9	14	146
32	19.5	9	25	10	19	M10 × 1.25	34.5	9	14	148
40	21	10	41.2	15	30	M14 × 1.5	42.5	11	18	188

MCMB Double acting MINIATURE CYLINDERS



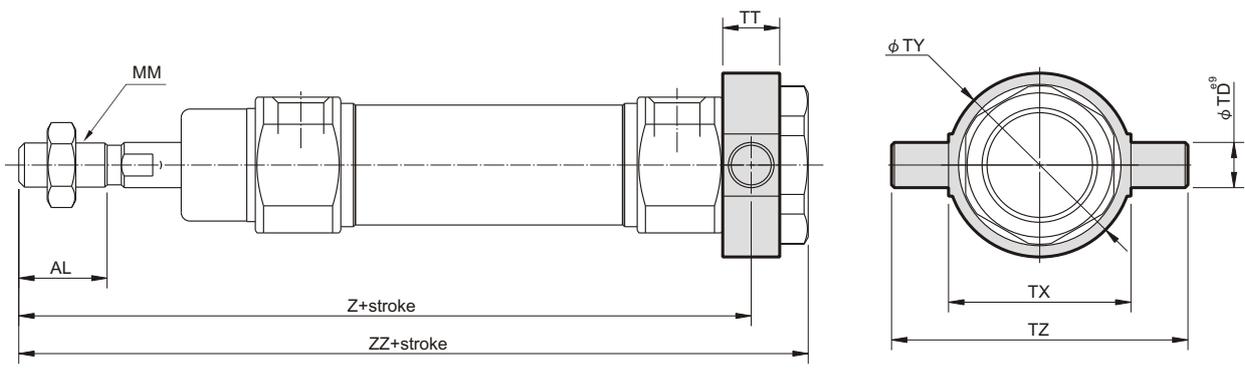
TA



(mm)

Code Tube I.D.	AL	H	MM	TD	TT	TX	TY	TZ	Z	ZZ
20	15.5	41	M8×1.25	8	10	32	32.5	52	36	118
25	19.5	45	M10×1.25	9	10	40	40.5	60	40	122
32	19.5	45	M10×1.25	9	10	40	40.5	60	40	124
40	21	50	M14×1.5	10	11	53	53.5	77	44.5	154

TB

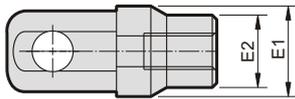


(mm)

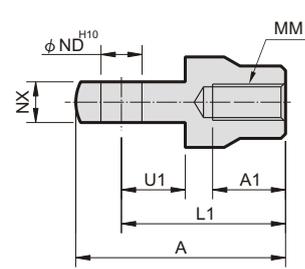
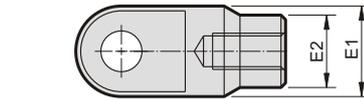
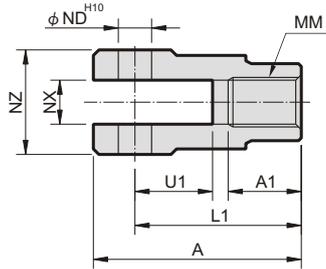
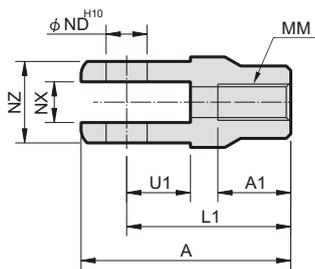
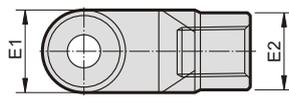
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20	15.5	M8×1.25	8	10	32	32.5	52	108	118
25	19.5	M10×1.25	9	10	40	40.5	60	112	122
32	19.5	M10×1.25	9	10	40	40.5	60	114	124
40	21	M14×1.5	10	11	53	53.5	77	143.5	154

Y connector

φ 20~φ 32



φ 40



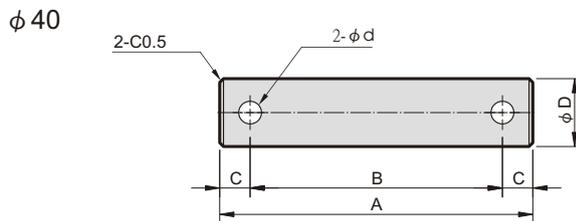
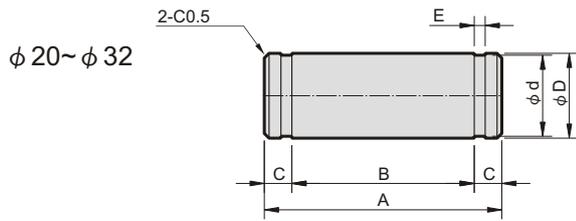
(mm)

Code Tube I.D.	A	A1	E1	E2	L1	MM	ND	NX	NZ	U1
20	46	16	φ20	φ16	36	M8×1.25	9	9 ^{+0.2} _{+0.1}	18	14
25, 32	46	16	φ20	φ16	36	M10×1.25	9	9 ^{+0.2} _{+0.1}	18	14
40	68	25	φ24	φ24	55	M14×1.5	12	16 ^{+0.3} _{+0.1}	38	25

(mm)

Code Tube I.D.	A	A1	E1	E2	L1	MM	ND	NX	U1
20	46	16	φ20	φ16	36	M8×1.25	9	9 ^{+0.1} _{+0.2}	14
25, 32	46	16	φ20	φ16	36	M10×1.25	9	9 ^{+0.1} _{+0.2}	14
40	69	22	φ24	φ24	55	M14×1.5	12	16 ^{+0.1} _{+0.2}	20

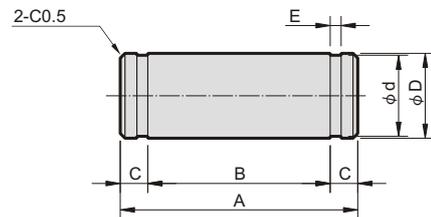
Pin for CB & Y connector



for CB & Y connector

Code Tube I.D.	A	B	C	φ D ^{d9}	φ d	E	Snap ring Split pin
20~32-CB, Y	25	19.2	2.9	9 ^{-0.04} _{-0.08}	8.6 ⁰ _{-0.06}	1.15 ^{+0.14} ₀	STW-9
40-CB	41.2	33.2	4	10 ^{-0.04} _{-0.08}	3		φ 3.2×20L
40-Y	49.7	41.7	4	12 ^{-0.05} _{-0.09}	3		φ 3.2×20L

Pin for SDB



for SDB

Code Tube I.D.	A	B	C	φ D ^{d9}	φ d	E	Snap ring
20~25	24.5	19.5	2.5	8 ^{-0.04} _{-0.08}	7.6 ⁰ _{-0.06}	0.9 ^{+0.10} ₀	STW-8
32~40	34	29	2.5	10 ^{-0.04} _{-0.08}	9.6 ⁰ _{-0.09}	1.15 ^{+0.14} ₀	STW-9