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:

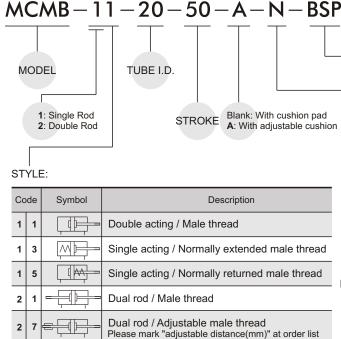
Available with a comprehensive selection of mountings for fixed or flexible installation.

Standard with magnet.

Model		МС	МВ									
Tube I.D. (mm)	20	25	32	40								
Port size		PT 1/8		PT 1/4								
Medium		А	ir									
Max operating pressure	9.9 kgf/cm ²											
Min operating pressure	0.5 kgf/cm²											
Proof pressure		15 kg	Jf/cm²									
Available speed range	_	5~+60℃	(No freezir	ng)								
Ambient temperature		Not re	quired									
Lubricator		50~500	mm/sec									
Sensor switch		RCM										
	BA20	BA25	BA32	BA40								
Sensor switch band	BGS20	BGS32	BGS40									
	BM20	BM32	BM40									

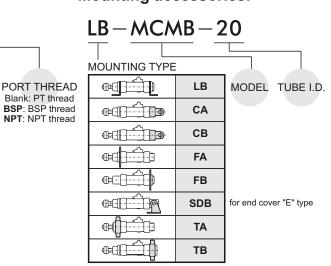
[•] Senser switch band BM** only for RCM.

Order example:



Single acting type: Please consult us.

Mounting accessories:



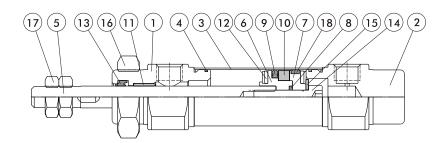
END COVER TYPE:

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

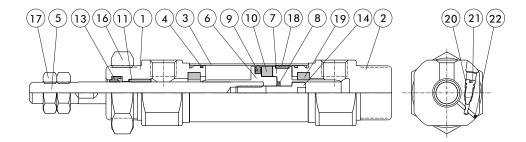
MCMB Inside structure & Parts list



MINIATURE CYLINDERS



With adjustable cushion type



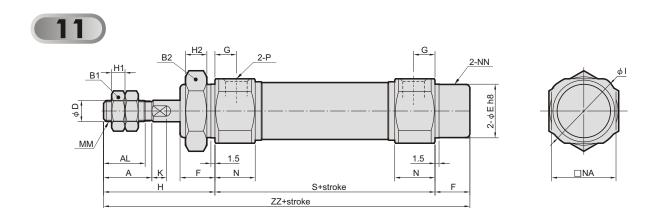
Material

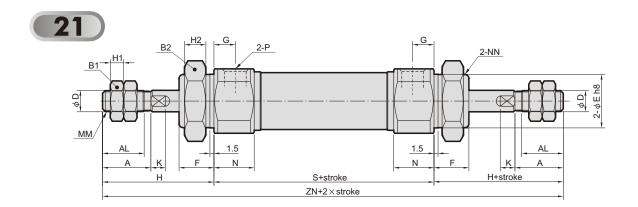
	Cushion Rubber Air		Tube I.D.	20	25	32	40	Mata
No.	Rubber	Air	Part name	20	25	32	40	Note
_1	•	•	Rod cover	Α	Numinu	ım allo	y	Anodized
2	•	•	Head cover	Δ	Muminu	ım allo	у	Anodized
3	•	•	Tube		Stainle	ss stee	l	
4	•	•	Cover ring		NE	3R		
5	•	•	Piston rod		Carbo	n steel		
6	•	•	Piston-R	Α	Numinu	ım allo	у	
7	•	•	Piston-H	Α	Numinu	ım allo	у	
8	•	•	Piston gasket		NE	3R		
9	•	•	Piston packing		NE	3R		
10	•	•	Magnet ring	N	lagnet	materia	al	
11	•	•	Rod bush		Cop	per		
12	•		Cushion gasket		NE	3R		
13	•	•	Rod packing		NE	3R		
14	•	•	Piston bolt		SC	CM		
15	•		Washer		Rolled	d steel		
16	•	•	Tie nut		Rolled	d steel		
17	•	•	Rod front nut		Rolled	d steel		
18	•	•	Wear ring		Tef	lon		
19		•	Cushion packing		NE	3R		
20		•	Needle valve packing		NE	3R		
21		•	Needle valve	Stainles	ss steel	Rolled	steel	
22		•	Steel ball		Stainle	ss stee	I	

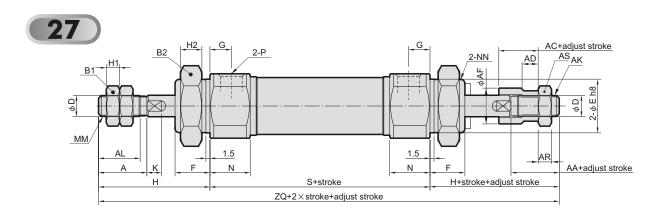
MCMB Dimensions / Double acting $\phi 20 \sim \phi 40$



MINIATURE CYLINDERS







																							(mm)
Code Tube I.D.	Α	AA	AC	AD	AF	AK	AL	AR	AS	B1	B2	D	Е	F	G	Н	H1	H2	I	K	ММ	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	$26_{-0.03}^{0}$	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	$26_{-0.03}^{0}$	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	$32_{-0.04}^{0}$	16	11	50	8	10	46.5	7	M14×1.5	21.5	42.5

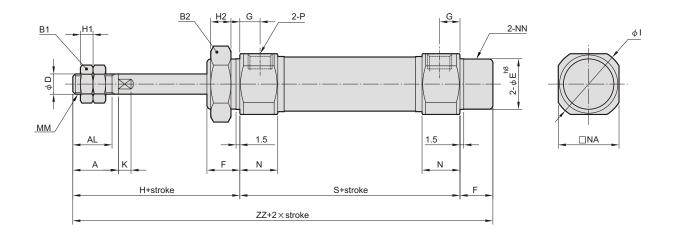
Code Tube I.D.	NN	Р	S	ZN	ZQ	ZZ
20	M20×1.5	PT 1/8	62	144	141	116
25	M26×1.5	PT 1/8	62	152	146	120
32	M26×1.5	PT 1/8	64	154	145	122
40	M32×2.0	PT 1/4	88	188	198	154

MCMB Dimensions / Single acting $\phi 20 \sim \phi 40$

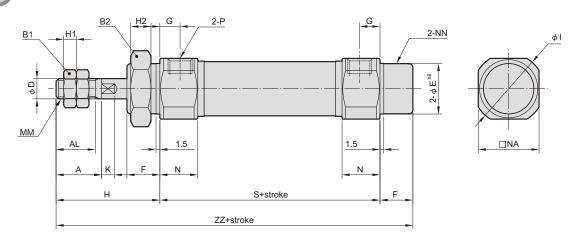


MINIATURE CYLINDERS

13



15



Code Tube I.D.	Α	AL	В1	B2	D	Е	F	G	Н	H1	H2	_	K	MM	N	NA	NN	Р
20	18	15.5	13	26	8	$20_{-0.03}^{0}$	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	PT 1/8
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
32	22	19.5	17	32	12	$26_{-0.03}^{0}$	13	8	45	6	8	37.5	5.5	$M10\!\times\!1.25$	15	34.5	M26×1.5	PT 1/8
40	24	21	22	41	14	$32_{-0.04}^{}$	16	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2.0	PT 1/4

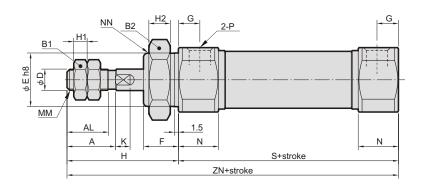
Strov		S			ZZ			
Stroke I.D.	1~50	51~100	101~150	1~50	51~100	101~150		
20	87	112	137	141	166	191		
25	87	112	137	145	170	195		
32	89	114	139	147	172	197		
40	113	138	163	179	204	229		

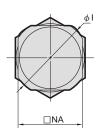
MCMB Dimensions / Double acting $\phi 20 \sim \phi 40$



MINIATURE CYLINDERS



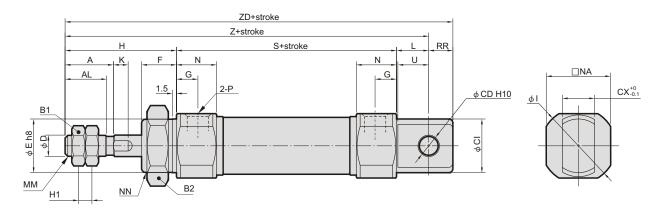




(mm)

Code Tube I.D.	Α	AL	B1	B2	D	E	F	G	Н	H1	H2	I	K	MM	N	NA	NN	Р	S	ZN
20	18	15.5	13	26	8	20 _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 _0.03	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 _0.03	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	$M26 \times 1.5$	PT 1/8	64	109
40	24	21	22	41	14	$32_{-0.04}^{0}$	16	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2.0	PT 1/4	88	138





(mm)

Code Tube I.D.	Α	AL	В1	B2	CD	СХ	C1	D	Е	F	G	Н	H1	I	K	L	ММ	N	NA	NN	Р	RR	S	U	Z	ZD
20	18	15.5	13	26	8	12	20	8	$20_{-0.03}^{0}$	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	$26_{-0.03}^{0}$	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	$26_{-0.03}^{0}$	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	$32_{-0.04}^{0}$	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

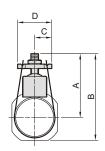
f MCMB Installation of sensor switch $\phi 20 \sim \phi 40$

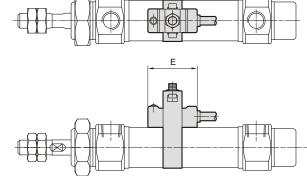


MINIATURE CYLINDERS

Sensor switch: RCA Sensor switch band: BA**

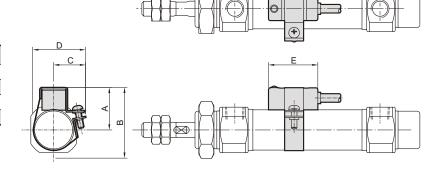
Code Tube I.D.	Α	В	С	D	E
20	33	45	9	18	26
25	35.5	50.5	9	18	26
32	39	56.5	9	18	26
40	43	64.5	9	18	26





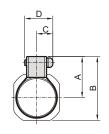
Sensor switch: RCA Sensor switch band: BGS**

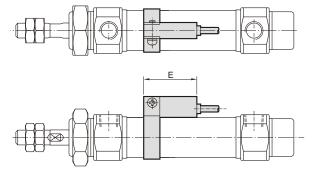
	_		_		
Code Tube I.D.	Α	В	С	D	Ε
20	25	37	18	30	26
25	25.5	40.5	18.5	33.5	26
32	29	46.5	22	39.5	26
40	33	55	26	47.5	26



Sensor switch: RCM Sensor switch band: BM**

Code Tube I.D.	Α	В	С	D	E
20	22	34	10	16	28
25	25	40	10	16	28
32	28	46	10	16	28
40	32	54	10	16	28



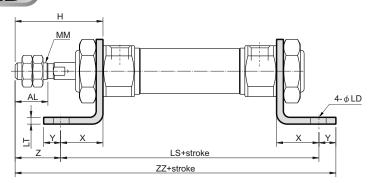


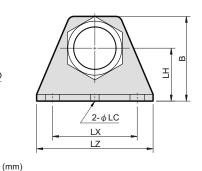
MCMB Mounting accessories / Double acting $\phi 20 \sim \phi 40$



MINIATURE CYLINDERS

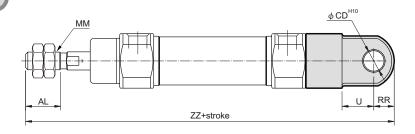
LB

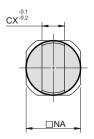




Code Tube I.D.	AL	В	Н	LC	LD	LH	LS	LT	LX	LZ	MM	Х	Υ	Z	ZZ
20	15.5	40	41	4	6.8	25	102	3.2	40	55	M8×1.25	20	8	21	131
25	19.5	47	45	4	6.8	28	102	3.2	40	55	M10×1.25	20	8	25	135
32	19.5	47	45	4	6.8	28	104	3.2	40	55	M10×1.25	20	8	25	137
40	21	54	50	4	7	30	134	3.2	55	75	M14×1.5	23	10	27	171

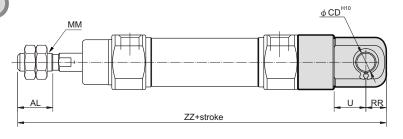
CA

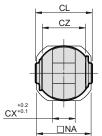




									(mm)
Tube		AL	CD	СХ	MM	NA	RR	U	ZZ
20)	15.5	9	10	M8×1.25	24	9	14	142
2	5	19.5	9	10	M10×1.25	30	9	14	146
32	2	19.5	9	10	M10×1.25	34.5	9	14	148
40)	21	10	15	M14×1.5	42.5	11	18	188

CB



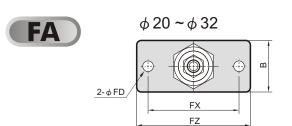


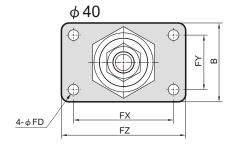
										(mm)
Code Tube I.D.	AL	CD	CL	СХ	CZ	MM	NA	RR	U	ZZ
20	15.5	9	25	10	19	M8×1.25	24	9	14	142
25	19.5	9	25	10	19	M10×1.25	30	9	14	146
32	19.5	9	25	10	19	M10×1.25	34.5	9	14	148
40	21	10	41.2	15	30	M14×1.5	42.5	11	18	188

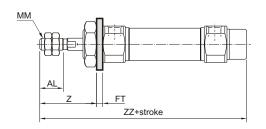
${f MCMB}$ Mounting accessories / Double acting $\phi 20 \sim \phi 40$



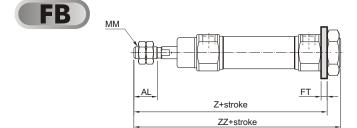
MINIATURE CYLINDERS

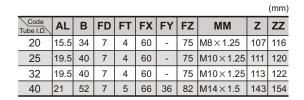


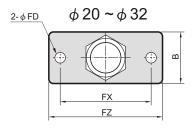


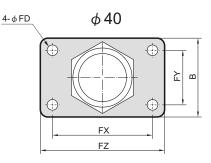


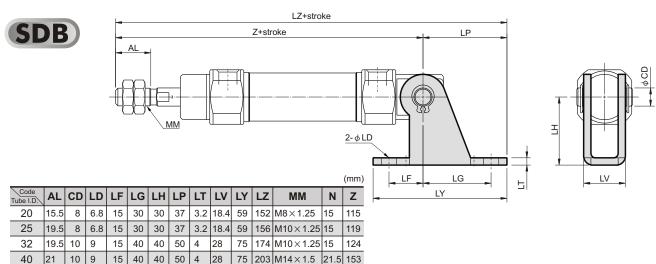
										()
Code Tube I.D.	AL	В	FD	FT	FX	FY	FZ	MM	Z	ZZ
20	15.5	34	7	4	60	-	75	M8×1.25	37	116
25	19.5	40	7	4	60	-	75	M10×1.25	41	120
32	19.5	40	7	4	60	-	75	M10×1.25	41	122
40	21	52	7	5	66	36	82	M14×1.5	45	154









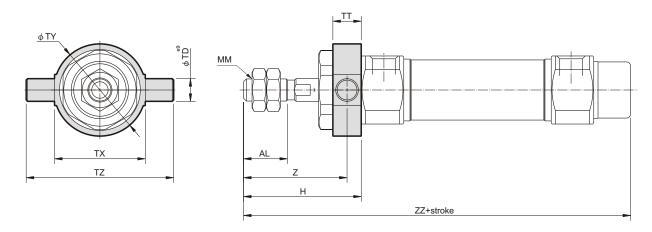


MCMB Mounting accessories / Double acting $\phi 20 \sim \phi 40$



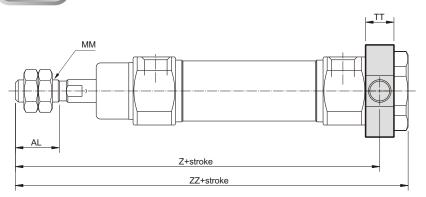
MINIATURE CYLINDERS

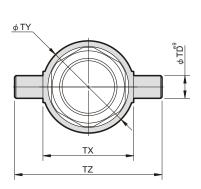




										(mm)
Code Tube I.D.	AL	Н	MM	TD	TT	TX	TY	TZ	Z	ZZ
20	15.5	41	M8×1.25	8	10	32	32.5	52	36	118
25	19.5	45	M10×1.25	9	10	40	40.5	60	40	122
32	19.5	45	M10×1.25	9	10	40	40.5	60	40	124
40	21	50	M14×1.5	10	11	53	53.5	77	44.5	154

TB





									(mm)
Code Tube I.D.	AL	MM	TD	TT	тх	TY	TZ	Z	ZZ
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

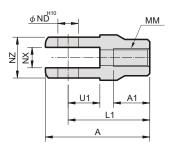
MCMB Accessories $\phi 20 \sim \phi 40$

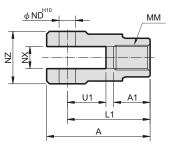




Y connector

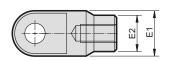
φ 20~ φ 32 φ 40

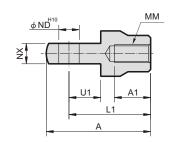




										(mm)
Code Tube I.D.	Α	A 1	E1	E2	L1	MM		NX		
20	46	-				M8×1.25		9 + 0.2	18	14
25, 32	46	16	Φ20	Φ16	36	M10×1.25	9	9 +0.2	18	14
40	68	25	26	Φ24	55	M14×1.5	12	16 ^{+0.3}	38	25

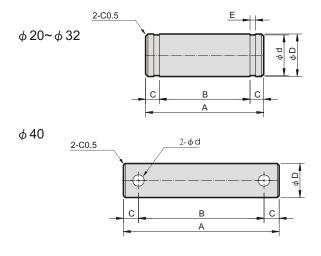
I connector



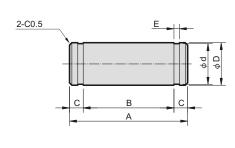


									(mm)
Code Tube I.D.	Α	A 1	E1	E2	L1	MM	ND	NX	U1
20	46	16	φ20	φ16	36	M8×1.25	9	9 +0.1	14
25, 32	46	16	φ20	Φ16	36	M10×1.25	9	9 +0.1	14
40	69	22	φ24		55	M14×1.5	12	16 +0.1	20

Pin for CB & Y connector



Pin for SDB



for CB & Y connector

Code Tube I.D.	Α	В	С	φ D ^{d9}	φ d	Е	Snap ring Split pin
20~32-CB, Y	25	19.2	2.9	$9^{-0.04}_{-0.08}$	$8.6_{-0.06}^{0}$	1.15 ^{+0.14}	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		φ3.2×20L

for SDB

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