MCMI series

ISO-6432 MINIATURE CYLINDERS / NON-PIVOT TYPE MINIATURE CYLINDERS



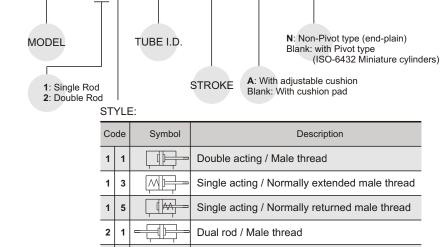
Table for standard stroke

	Tube I.D.	Stroke (mm)	Max. stroke
Single	φ 16	15, 25, 50, 75, 100	
acting	φ 20, 25	15, 25, 50, 75, 100, 125, 150	
	φ8, 10	10, 25, 40, 50, 80, 100	200
Double	φ 12	10, 25, 40, 50, 80, 100, 125, 160, 200	200
acting	φ 16	15, 25, 50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500	900
	φ 20, 25	15, 25, 50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500	900

MCMI - 11 - 16 - 100 - A -

- Stroke out of specification is also available.
- Please consult us if stroke out of specification.

Order example:



Dual rod / Adjustable male thread

Please mark "adjustable distance(mm)" at order list

Single acting type: Please consult us.

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.

■ ISO-6432 standard specification:

Unified design, most parts of each type are interchangeable among each other.

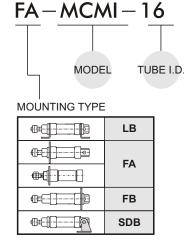
■ Standard with magnet.

■ Port thread PT.NPT. are also available.

Model			MC	MI		
Tube I.D. (mm)	8	10	12	16	20	25
Port size		M5>	× 0.8		G	1/8
Medium			Α	ir		
Max. operating pressure kgf/cm²			7 kgf/	cm ²		
Min. operating pressure kgf/cm²	1	0	.8		0.6	
Proof pressure			10 kgf	/cm²		
Ambient temperature	-	-5~+	00℃ (1	No free	ezing)	
Available speed range		50	~500 n	nm/sed		
Lubricator		1	Not req	uired		
Company with the dead	RCA	,	-	,	BA25 ba BGS25	,
Sensor switch (band)	RCM	(Match	ning the	BM16~	BM25 b	and)
	RCS	(Match	ning the	BJ8~B	J16 ban	d)

• The code of sensor switch band is BM16. "16" represents the tube I.D.

Mounting accessories:



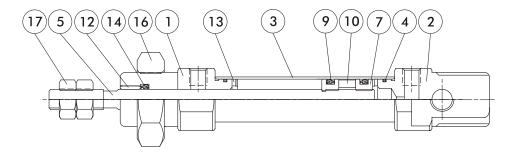
MCMI Inside structure & Parts list



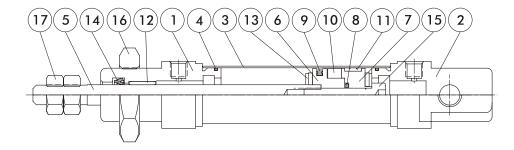
ISO-6432 MINIATURE CYLINDERS

Double acting

φ8~φ12



ϕ 16~ ϕ 25



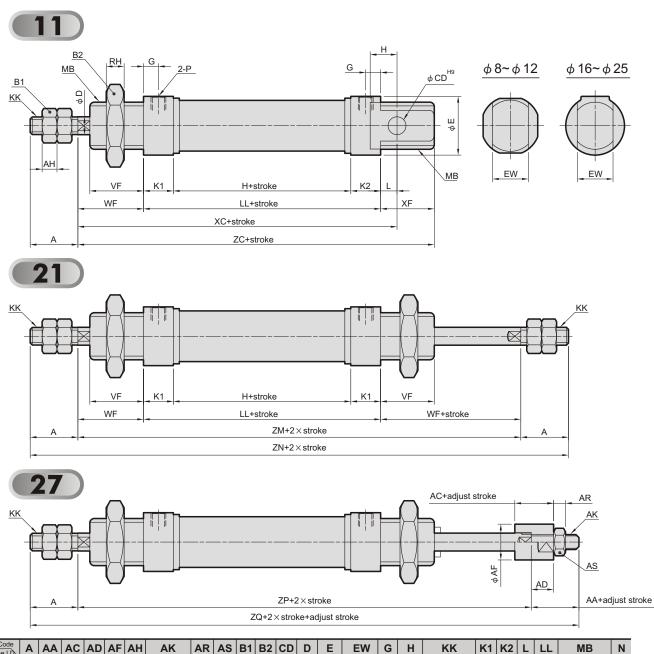
Material

No.	Part name	Material	Note
	T GITTIGITIO	material	Hote
1	Rod cover	Aluminum alloy	
2	Head cover	Aluminum alloy	
3	Tube	Stainless steel	
4	Cover ring	NBR	
5	Piston rod	Stainless steel	ϕ 20, ϕ 25 : Medium carbon steel
6	Piston-R	Aluminum alloy	ϕ 25 With cushion pad - Polyurethane
7	Piston-H	Aluminum alloy	ϕ 25 With cushion pad - Polyurethane
8	Piston gasket	NBR	
9	Pistion packing	NBR	
10	Magnet ring	Magnet material	
11	Wear ring	Teflon	
12	Rod bush	Copper	
13	Cushion gasket	NBR	
14	Rod packing	NBR	
15	Piston lock bolt	SCM	
16	Tie nut	Carbon steel	
17	Rod front nut	Carbon steel	

MCMI Dimensions / Double acting ϕ 8~ ϕ 25



ISO-6432 MINIATURE CYLINDERS



Code Tube I.D.	Α	AA	AC	AD	AF	АН	AK	AR	AS	В1	B2	CD	D	Е	EW	G	Н	KK	K1	K2	L	LL	MB	N
8	12	_	_	_	_	3.2	_	_	_	7	19	4	4	16.7	8 ^{-0.05} -0.4	6	24	M4×0.7	11	11	2	46	M12×1.25	6
10	12	_	_	_	_	3.2	_	_	_	7	19	4	4	16.7	8 ^{-0.05} -0.4	6	24	M4×0.7	11	11	2	46	M12×1.25	6
12	16	_	_	_	_	5	_	_	_	10	24	6	6	19.7	$12^{-0.05}_{-0.4}$	6	28	M6×1.0	11	11	3	50	M16×1.5	9
16	16	16	13	7.5	12	5	M5×0.8	4	8	10	22	6	6	19.7	$12^{-0.05}_{-0.4}$	5	34.5	M6×1.0	10	10	5.5	54.5	M16×1.5	9
20	20	19	15	9.5	16	5	M8×1.25	5	13	13	30	8	8	29.7	$16^{-0.05}_{-0.4}$	8	38	M8×1.25	15	15	3	68	M22×1.5	12
25	22	19	15	9.5	16	5	M8×1.25	5	13	17	30	8	10	29.7	$16^{-0.05}_{-0.4}$	7.5	37	M10×1.25	15	15	9	67	M22×1.5	12

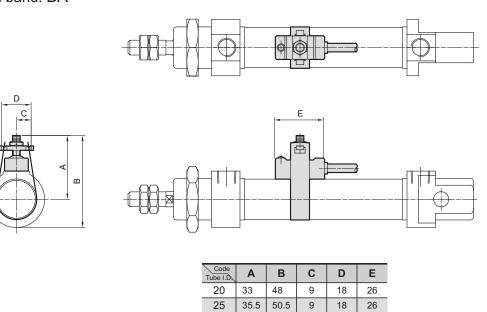
Code Tube I.D.	Р	RH	VF	WF	хс	XF	ZC	ZM	ZN	ZP	ZQ
8	M5×0.8	6	12	16	64	12	74	_	_	_	_
10	M5×0.8	6	12	16	64	12	74	_	_	_	_
12	M5×0.8	8	17	22	75	17	89	_	_	_	_
16	M5×0.8	6	18	22	82	18	94.5	98.5	130.5	102	134
20	G 1/8	6	20	24	95	20	112	116	156	119	158
25	G 1/8	6	22	28	104	22	117	123	167	124.5	165.5

MCMI Installation of sensor switch ϕ 20, ϕ 25



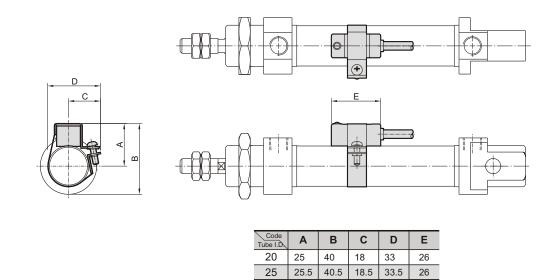
ISO-6432 MINIATURE CYLINDERS

Sensor switch: RCA Sensor switch band: BA**



Sensor switch: RCA

Sensor switch band: BGS**

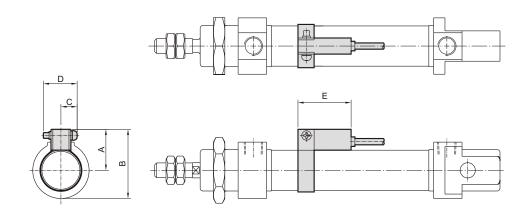


MCMI Installation of sensor switch ϕ 8~ ϕ 25



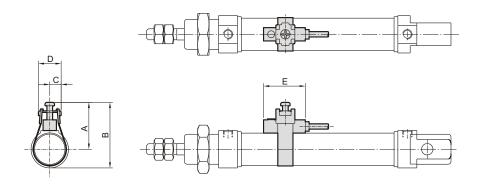
ISO-6432 MINIATURE CYLINDERS

Sensor switch: RCM Sensor switch band: BM**



Code Tube I.D.	Α	В	С	D	Е
16	20	30	10	16	28
20	22	37	10	16	28
25	25	40	10	16	28

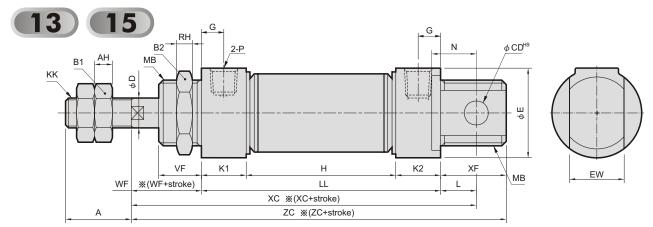
Sensor switch: RCS Sensor switch band: BJ**



Code Tube I.D.	Α	В	С	D	Е
8	19.1	26.6	6	12	22
10	20.1	27.6	6	12	22
12	21.3	30.5	6	12	22
16	23.4	33.3	6	12	22



ISO-6432 MINIATURE CYLINDERS



※() Dimension for 13 type

Code Tube I.D.	Α	АН	B1	B2	CD	D	Е	EW	G	KK	K1	K2	L	LA	MB	N	Р	RH	VF	WF	XF	ZM	ZN	ZP	ZQ
16	16	5	10	22	6	6	19.7	$12^{-0.05}_{-0.4}$	5	M6×1.0	10	10	5.5	54.5	M16×1.5	9	$M5 \times 0.8$	6	18	22	18	98.5	130.5	96	134
20	20	5	13	30	8	8	29.7	$16^{-0.05}_{-0.4}$	8	M8×1.25	15	15	3	68	M22×1.5	12	G 1/8	6	20	24	20	116	156	119	158
25	22	6	17	30	8	10	29.7	$16^{-0.05}_{-0.4}$	7.5	M10×1.25	15	15	9	67	$M22 \times 1.5$	12	G 1/8	6	22	28	22	123	167	124.5	165.5

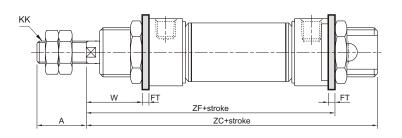
Stroke				Н							LL							XC			
I.D.	15	25	50	75	100	125	150	15	25	50	75	100	125	150	15	25	50	75	100	125	150
16	64.5	74.5	114.5	154.5	194.5			84.5	94.5	134.5	174.5	214.5			112	122	162	202	242		
20	78	88	138	188	238	288	338	108	118	168	218	268	318	368	135	145	195	245	295	345	395
25	77	87	137	187	237	287	337	107	117	167	217	267	317	367	144	154	204	254	304	354	404

Stroke				ZC			
I.D.	15	25	50	75	100	125	150
16	124.5	134.5	174.5	214.5	254.5		
20	152	162	212	262	312	362	412
25	153	163	213	263	313	363	413

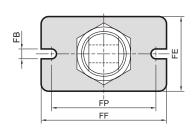
■ Mounting accessories / Double acting



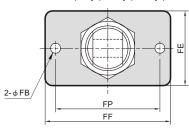
Code Tube I.D.	Α	FB	FE	FF	FP	FT	KK	W	ZC	ZF
8	12	4.5	22	40	30	3.2	M4×0.7	12.8	74	65.2
10	12	4.5	22	40	30	3.2	M4×0.7	12.8	74	65.2
12	16	5.5	26	52	40	3.2	M6×1.0	18.8	89	75.2
16	16	5.5	26	52	40	3.2	M6×1.0	18.8	94.5	79.7
20	20	6.6	38	64	50	4.5	M8×1.25	19.5	112	96.5
25	22	6.6	38	64	50	4.5	M10×1.25	23.5	117	99.5



MCMI- ϕ 12, ϕ 16



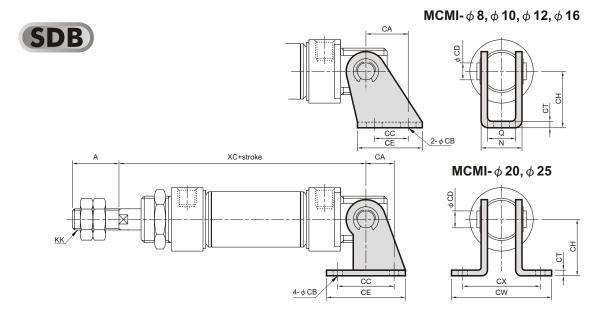
MCMI- ϕ 8, ϕ 10, ϕ 20, ϕ 25



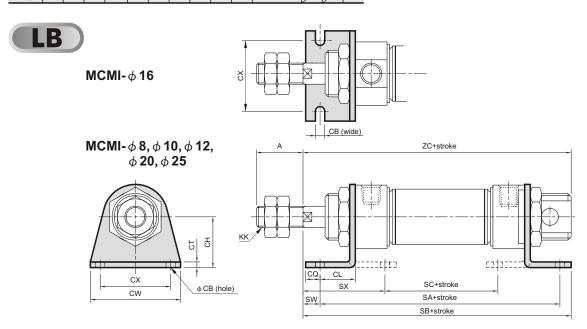
f MCMI Mounting accessories / Double acting $\phi \, 8 \sim \phi \, 25$



ISO-6432 MINIATURE CYLINDERS



Code Tube I.D.	Α	CA	СВ	СС	CD	CE	СН	СТ	cw	СХ	KK	N	Q	хс
8	12	11	4.5	12.5	4	20	24	2.5			M4×0.7	13.1	8.1	64
10	12	11	4.5	12.5	4	20	24	2.5		/	M4×0.7	13.1	8.1	64
12	16	13	5.5	15	6	25	27	3.2			M6×1.0	18.5	12.1	75
16	16	15	5.5	12	6	23	20	2.3			M6×1.0	16.7	12.1	82
20	20	16	6.6	32	8	48	32	3.2	67	51	M8×1.25			95
25	22	16	6.6	32	8	48	32	3.2	67	51	M10×1.25	7	7	104



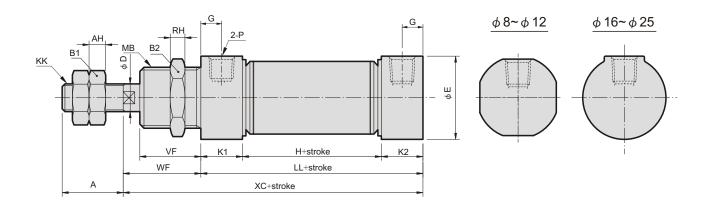
Code Tube I.D.	Α	СВ	СН	CL	CQ	СТ	cw	СХ	KK	SA	SB	sc	sw	SX	ZC
8	12	4.5	16	11	5	3.2	35	25	M4×0.7	68	73	30.4	5	23.8	74
10	12	4.5	16	11	5	3.2	35	25	M4×0.7	68	73	30.4	5	23.8	74
12	16	5.5	20	14	6	4	42	32	M6×1.0	78	86	30	8	32	89
16	16	5.5	20	13	6	3.2	44	32	M6×1.0	80.5	89.5	34.9	9	31.8	94.5
20	20	6.6	25	15	8	3.2	54	40	M8×1.25	98	107	44.4	9	35.8	112
25	22	6.6	25	15	8	3.2	54	40	M10×1.25	97	110	43.4	13	39.8	117

f MCMI Dimensions / Double acting ϕ 8~ ϕ 25



NON-PIVOT TYPE MINIATURE CYLINDERS





Code Tube I.D.	Α	АН	B1	B2	D	Е	G	Н	KK	K1	K2	LL	MB	Р	RH	VF	WF	хс
8	12	3.2	7	19	4	16.7	6	24	M4×0.7	11	11	46	M12×1.25	M5×0.8	6	12	16	62
10	12	3.2	7	19	4	16.7	6	24	M4×0.7	11	11	46	M12×1.25	M5×0.8	6	12	16	62
12	16	5	10	24	6	19.7	6	28	M6×1.0	11	11	50	M16×1.5	M5×0.8	8	17	22	72
16	16	5	10	22	6	19.7	5	34.5	M6×1.0	10	10	54.5	M16×1.5	M5×0.8	6	18	22	76.5
20	20	5	13	30	8	29.7	8	38	M8×1.25	15	15	68	M22×1.5	G 1/8	6	20	24	92
25	22	6	17	30	10	29.7	7.5	37	M10×1.25	15	15	67	M22×1.5	G 1/8	6	22	28	95



Code Tube I.D.	Α	FB	FE	FF	FP	FT	W	хс
8	12	4.5	22	40	30	3.2	12.8	62
10	12	4.5	22	40	30	3.2	12.8	62
12	16	5.5	26	52	40	3.2	18.8	72
16	16	5.5	26	52	40	3.2	18.8	76.5
20	20	6.6	38	64	50	4.5	19.5	92
25	22	6.6	38	64	50	4.5	23.5	96

MCMI- ϕ 12, ϕ 16

