MCMOB series

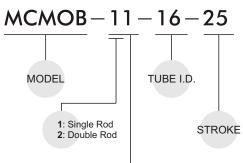
FLAT CYLINDER with no-rotation







Order example:



STYLE:

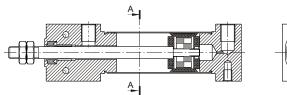
Со	de	Symbol	Description
1	1		Double acting / Male thread
1	3		Single acting / Normally extended male thread
1	5		Single acting / Normally returned male thread
2	1		Double rod / Male thread
2	3		Single action / Double rod male thread
2	5		Double rod / Male thread hole-rod
2	6		Single action / Double rod / Male thread hole-rod

Features:

- Large range 10mm bore ~ 25mm bore.
- Flat design enables non rotation of rod.
- ISO standard dimensions.
- Magnetic as standard.

Options

• Hole-rod (X) with cylinders double end rod (10-16-25)



	•						
Мо	del		MCMOB				
Acting type		Double	acting / Singl	e acting			
Tube I.D. (m	ım)	10	16	25			
Port size Ro	(PT)		M5×0.8				
Medium		Filter air 5	50μ m lubrica	ted or not			
Operating	Double acting	1.5~10	1.2~10	1~10			
pressure	Single Push	2.0~10	2.3~10	1.5~10			
kgf/cm ²	acting Pull	3~10	2.5~10	2~10			
Work tempe	rature	-10~60°C (No freezing)					
Stocking ten	nperature	0~15℃					
Tolerance of	stoke	1.5mm					
Cushioning	of end stroke	Elastic by polyur	rethan internal stop	built into piston			
Speed	m/sec	0.	.6	0.7			
Non-rotating	accruacy	±3.5°	±2	2.5°			
Minimum str	oke with sensor		5				
Pneumatic o	cushioning		No				
Sensor swite	ch		RCS				
Sensor swite	ch band		BK-81				

Material

Oval tube	Stainless steel
End cover	Anodized aluminium
Piston rod	Stainless steel
Piston	Composit polyurethan
Piston rod bearing	Bronge & PTFE
Seals	Polyurethan
Spring	Bronge & PTFE
Magnet	Ferrite
Spacer spring	Brass & Acetal resin

MCMOB Forces for oval cylinder $_{\phi\,10\sim\,\phi\,25}$



FLAT CYLINDER with no-rotation

Forces for oval cylinder

(unit:kg)

Tube I.D.	Rod	_	unction	Area			Pressure	e kgf/cm²			
Tube I.D.	φ mm ⁻ 2		2	3	4	5	6	7			
			Push	100	1.25	2.37	3.63	4.12	5	6.12	
10	4		Pull	88	0.91	1.79	2.67	3.55	4.43	5.31	
			Double Push	100	2.00	3.00	4.00	5.00	6.00	7.00	
			action Pull	88	1.76	2.64	3.52	4.40	5.28	6.16	
	6		Push	200	3.50	5.00	7.40	8.20	9.10	12.00	
16			Pull	173	1.51	3.25	4.95	6.75	8.45	10.15	
			Double Push	200	4.00	6.00	8.00	10.00	12.00	14.00	
		1 44	action Pull	173	3.46	5.20	6.90	8.70	10.40	12.10	
			Push	430	6.40	11.70	16.20	21.50	26.30	31.20	
25	10	10		Pull	352	3.52	4.14	7.66	11.18	14.70	18.22
			Double Push	430	8.60	12.90	17.20	21.50	25.80	30.10	
			action Pull	352	7.04	10.56	14.08	17.60	21.12	24.64	

Storkes

Function Tube I.D.		Hole-rod			Hole-rod	
10	5, 10, 15, 20, 25, 30, 40, 50, 80, 100	25, 50, 80, 100	10, 25, 50	10, 25, 50	25, 50	10, 25, 50
16	5, 10, 15, 20, 25, 30, 40, 50, 80, 100, 160, 200	25, 50, 80, 100, 160	10, 25, 50	10, 25, 50	25, 50	10, 25, 50
25	5, 10, 15, 20, 25, 30, 40, 50, 80, 100, 160, 200, 300, 400, 500, 650	25, 50, 80, 100, 160, 200	10, 25, 50	10, 25, 50	25, 50	10, 25, 50

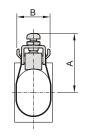
Note: Special strokes are available on request

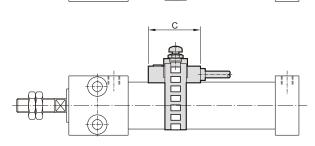
■ Installation of sensor switch

Sensor switch: RCS

Sensor switch band: BK-81

Code Tube I.D.	Α	В	С
10	23.5	15	22
16	26.5	15	22
25	27	15	22

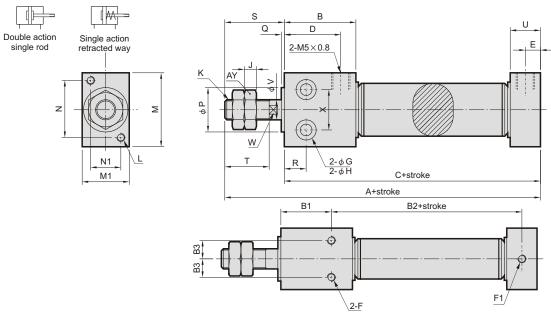




MCMOB Dimensions $\phi 10 \sim \phi 25$

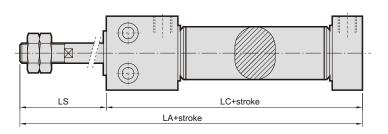


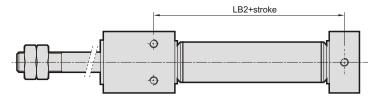
FLAT CYLINDER with no-rotation



Code Tube I.D.	A +1.5 +0	AY	В	В1		32 1.5 0	В3	+1.5 +0			Ε		F	ı	F1	(è	Н	J
10	74	7	22	18.	3 3	4.2	2.5	57	1	6	5	М	3 depth:5	М3 с	lepth:5	6.5 de	oth:3.5	3.2	2
16	89	10	24	19	4	3	5	67	1	9	5	M	3 depth:6	М3 с	lepth:6	8.2 de	oth:4.5	4.2	3
25	123	17	35.5	27.	5 5	6	8	91.5	2	8	8	M	4 depth:10) M4 d	epth:10	11 dep	oth:6.5	6.5	5
Code Tube I.D.	K		L		M	М	1	N	N1	+0 -0.0	5	Q	R	s	Т	U	٧	W	х
10	M4×	0.7	M3 depth	1:5	20	1:	2	15	7	10)	1	9	17	12	10	4	-	12
16	M6×	1.0	M3 depth	1:6	25	1	6	18	10	14	ļ.	1	12	22	16	10	6	5	16
25	M10×	1.25	M4 depth	:10	36	2	4 2	28	16	20)	1.5	16	31.5	22	16	10	9	24





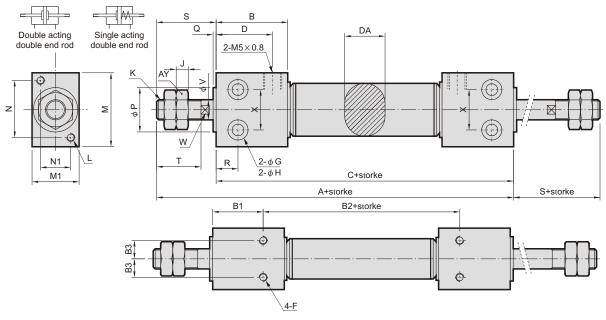


Code	LA +1.5				LB2	+1.5 0		LC ±	1.5	LS		
Tube I.D.	10	25	50	10	25	50	10	25	50	10	25	50
10	94	124	174	54.2	84.2	134.2	77	107	157	29	44	69
16	109	139	189	63	93	143	87	117	167	32	47	72
25	143	173	223	76	106	156	111.5	141.5	191.5	41.5	56.5	81.5

$MCMOB \;\; \textbf{Dimensions} \;\; \phi \; 10 \text{--} \; \phi \; 25$



FLAT CYLINDER with no-rotation



Code Tube I.D.	A +1.5 +0	AY	В	B1	B2 +1.5 +0	В3	C +1.5 +0	D	DA	F	G	Н	J	К
10	82	7	22	18.3	33	2.5	69	16	10.3	M3 depth:5	6.5 depth:3.5	3.2	2	M4×0.7
16	103	10	24	19	43	5	81	19	14.3	M3 depth:6	8.2 depth:4.5	4.2	3	M6×1.0
25	142.5	17	35.5	28	56	8	111	28	22.5	M4 depth:10	11 depth:6.5	6.5	5	M10×1.25

Code Tube I.D.	L	M	M1	N	N1	P +0 -0.05	Q	R	s	Т	٧	W	х
10	M3 depth:5	20	12	15	7	10	1	9	17	12	4	1	12
16	M3 depth:6	25	16	18	10	14	1	12	22	16	6	5	16
25	M4 depth:10	36	24	28	16	20	1.5	16	31.5	22	10	9	24

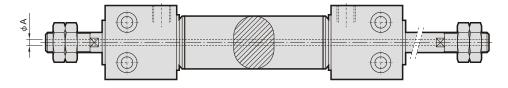




Double acting double end hole-rod

Single acting double end hole-rod



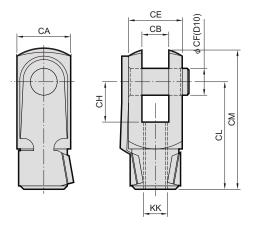


Code Tube I.D.	A +0.15 +0
10	1
16	1.2
25	3.2



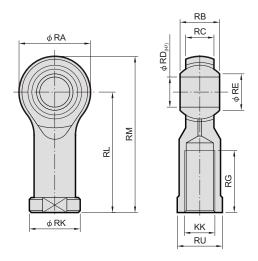
FLAT CYLINDER with no-rotation

Yconnector



Code Tube I.D.	CA	СВ	CE	CF	СН	CL	СМ	KK
8	8	4	11	4	8	16	21	M4
10	8	4	11	4	8	16	21	M4
12	12	6	16	6	12	24	31	M6
16	12	6	16	6	12	24	31	M6
20	16	8	22	8	16	32	42	M8
25	20	10	26	10	20	40	52	M10×1.25

Female rod ends



Order example	Code Tube I.D.	KK	RA	RB	RC	RD	RE	RG	RK	RL	RM	RU
PHS 4	8,10	M4	18	8	6	5	7.7	10	11	27	36	9
PHS 6	12,16	M6	18	9	7	6	8.95	14	12	30	39	10
PHS 8	20	M8	22	12	9	8	10.4	17	16	36	47	13
PHS 10	25	M10×1.25	28	14	9	10	12.9	20	19	43	56	17