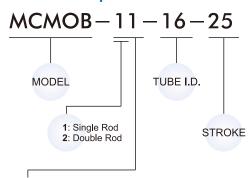
MCMOB series

FLAT CYLINDER with no-rotation





Order example



STYLE

Сс	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	- M-7-	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.

Specification

Мо	del		мсмов				
Acting type		Double acting / Single acting					
Tube I.D. (mr	m)	10 16 25					
Port size Rc(PT)		M5×0.8				
Medium		Filter air 5	60μ m lubrica	ited or not			
Operating	Double acting	0.15~1	0.12~1	0.1~1			
pressure	Single Push	0.2~1	0.23~1	0.15~1			
MPa	acting Pull	0.3~1	0.25~1	0.2~1			
Work temper	ature	-10~6	0℃ (No free:	zing)			
Stocking tem	perature	0~15℃					
Tolerance of	stoke	1.5mm					
Cushioning o	f end stroke	Elastic by polyurethan internal stop built into piston					
Speed	m/sec	0.	.6	0.7			
Non-rotating	accruacy	±3.5°	±2	2.5°			
Minimum stro	oke with sensor		5				
Pneumatic cu	ushioning		No				
Available spe	ed range	5	0~500mm/se	ec			
Sensor switch	h (*)	RCS					
Sensor switch	h band		BK-81				

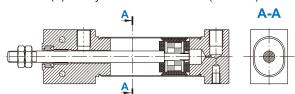
* RCS specification, please refer to page R-12.

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

Options

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





MCMOB Forces for oval cylinder $\phi 10 \sim \phi 25$



FLAT CYLINDER with no-rotation

Forces for oval cylinder

(unit:kg)

				1						(4				
Tube I.D.	Rod		unction	Area			Pressu	re MPa						
Tube I.D.	φ	'	unction	mm²	0.2	0.3	0.4	0.5	0.6	0.7				
			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				
		L 4P	action Pull	88	1.76	2.64	3.52	4.40	5.28	6.16				
			Push	200	3.50	5.00	7.40	8.20	9.10	12.00				
16	6		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
			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		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

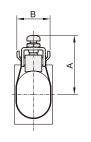
Function Tube I.D.		Hole-rod			Hole-rod	
10	5, 10, 15, 20, 25, 30, 40, 50, 80, 100	25, 50, 80, 100	10, 25, 50	10, 25, 50	25, 50	10, 25, 50
16	5, 10, 15, 20, 25, 30, 40, 50, 80, 100, 160, 200	25, 50, 80, 100, 160	10, 25, 50	10, 25, 50	25, 50	10, 25, 50
25	5, 10, 15, 20, 25, 30, 40, 50, 80, 100, 160, 200,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

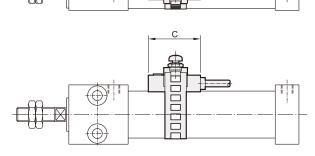
Note: Special strokes are available on request

Installation of sensor switch

Sensor switch: RCS Sensor switch band: BK-81

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



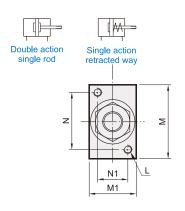


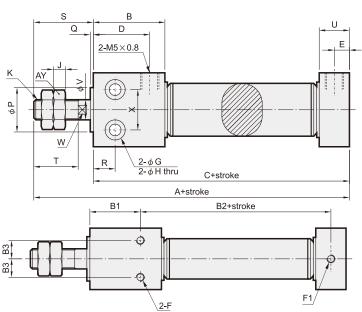


${\color{red}{\bf MCMOB}} \ \, {\color{red}{\bf Dimensions}} \ \, {\color{gray}{\phi}} \ \, {\color{gray}{10}} {\color{gray}{\sim}} \, {\color{gray}{\phi}} \ \, {\color{gray}{25}}$



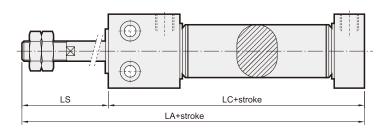
FLAT CYLINDER with no-rotation

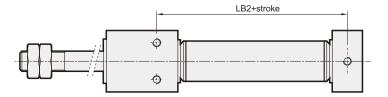




Code Tube I.D.	A +1.5 +0	AY	В	B1	1 ₁	B2 +1.5 +0	В3	+1 +0	.5	D	E			F		=1	O	3	н	J
10	74	7	22	18.	.3 3	34.2	2.5	57	7	16	5	5	М3	depth:5	M3 d	epth:5	6.5 de	pth:3.5	3.2	2
16	89	10	24	19	4	13	5	67	7	19	5	5	МЗ	depth:6	M3 d	epth:6	8.2 de	pth:4.5	4.2	3
25	123	17	35.5	27.	.5 5	56	8	91	1.5	28	8	1 8	M4	depth:1) M4 d	epth:10	11 dep	oth:6.5	6.5	5
Code Tube I.D.	K		L		M	М	1	N	N.	1 ₊	P 0 0.05	Q		R	s	Т	U	V	w	Х
10	M4×	0.7	M3 depth	1:5	20	1:	2	15	7	7	10	1		9	17	12	10	4	-	12
16	M6×	1.0	M3 depth	1:6	25	1	6	18	10)	14	1		12	22	16	10	6	5	16
25	M10×	1.25	M4 depth	:10	36	2	4	28	16	3	20	1.5	5]	16	31.5	22	16	10	9	24







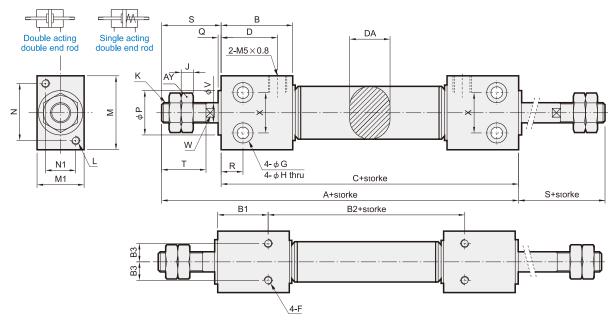
Code		LA +	1.5	LB2 +1.5				LC ±	1.5	LS		
Tube I.D.	10	25	50	10	25	50	10	25	50	10	25	50
10	94	124	174	54.2	84.2	134.2	77	107	157	29	44	69
16	109	139	189	63	93	143	87	117	167	32	47	72
25	143	173	223	76	106	156	111.5	141.5	191.5	41.5	56.5	81.5



${\color{red} {\bf MCMOB}} \ \ {\color{red} {\bf Dimensions}} \ {\color{gray} \phi} \ 10 {\color{gray} \sim} \ \phi \ 25$



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

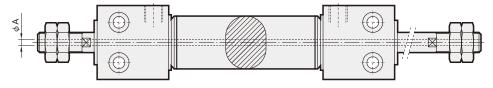
Code Tube I.D.	L	М	M1	N	N1	P +0 -0.05	Q	R	S	Т	٧	W	Х
10	M3 depth:5	20	12	15	7	10	1	9	17	12	4	-	12
16	M3 depth:6	25	16	18	10	14	1	12	22	16	6	5	16
25	M4 depth:10	36	24	28	16	20	1.5	16	31.5	22	10	9	24











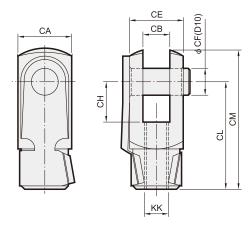
Code Tube I.D.	A +0.15 +0
10	1
16	1.2
25	3.2





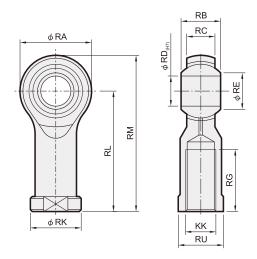
FLAT CYLINDER with no-rotation

Y connector



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

