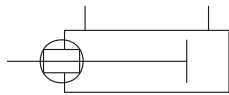
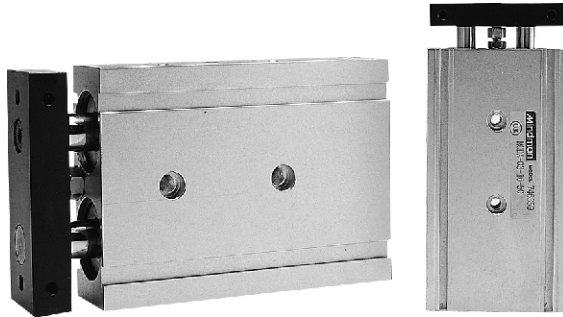


# MCDA series

## DUAL-ROD CYLINDER



### Order example:

**MCDA - 03 - 12 - 50 - BSP**

MODEL

TUBE I.D.

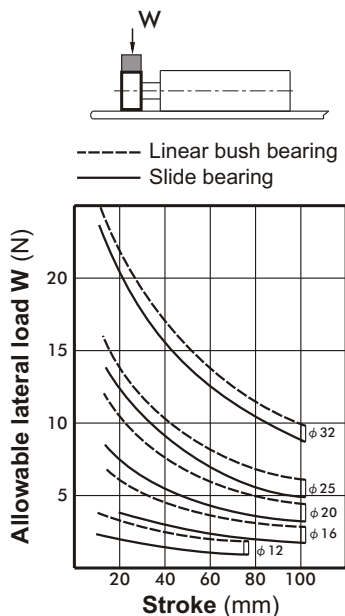
STROKE

TYPE OF BEARING

03	Slide bearing
23	Linear bush bearing

PORT THREAD  
Blank: PT thread  
**BSP**: BSP thread  
**NPT**: NPT thread

### Allowable lateral load



### Features:

- A thin and compact dual rod cylinder unit with high precision guiding for picking and placing
- Standardization of high lateral load resistance and highly accurate slide bearing & linear bush bearing.
- High Anti-roll accuracy & double thrust

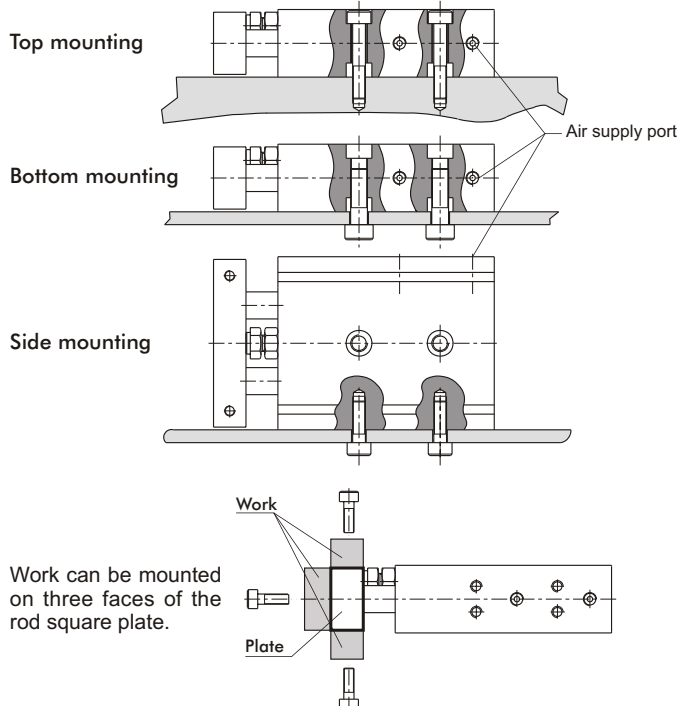
### Specification:

Model	MCDA				
Acting type	Double acting				
Tube I.D.(mm)	12	16	20	25	32
Port size Rc(PT)	M5 × 0.8			PT 1/8	
Medium	Air				
Operating pressure range kgf/cm <sup>2</sup>	Max.	7			
	Min.	1.0	0.5		
Proof pressure	10 kgf/cm <sup>2</sup>				
Ambient temperature	-5~+60°C (No freezing)				
Lubrication	Not required (If lubrication is used, apply turbine oil NO1 ISO VG32)				
Cushion	With rubber cushion pad (both side)				
Magnet	With magnet				
Sensor switch	RCB, RCE, RCE1				

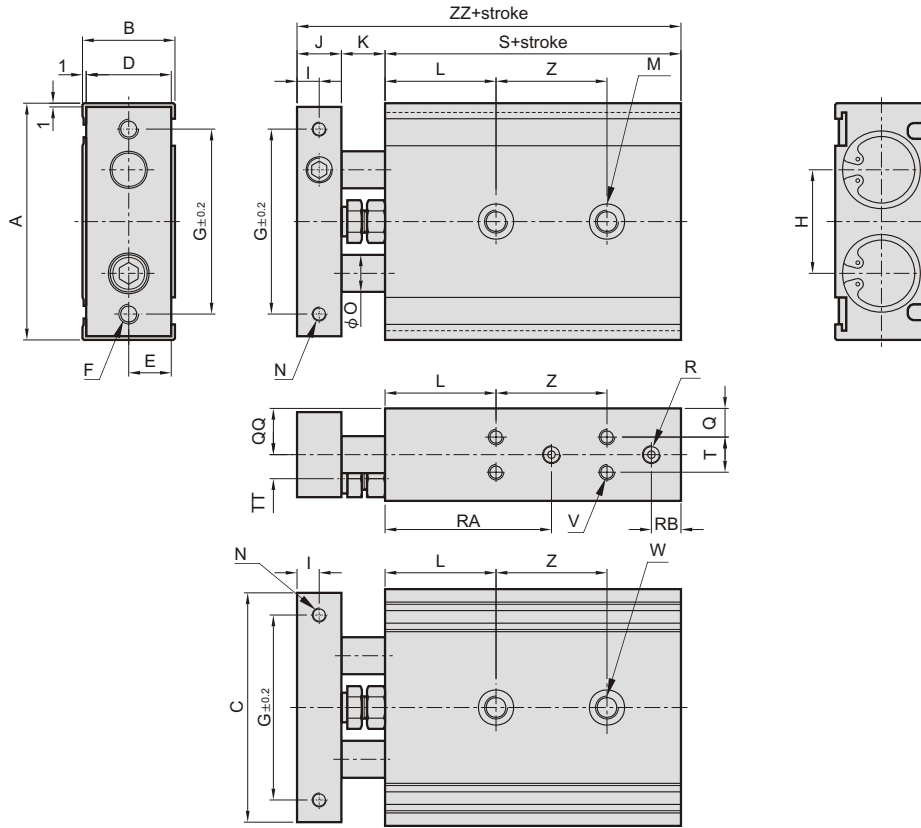
### Table for standard stroke

Tube I.D.	Stroke (mm)
φ 12	10,15,20,25,30,35,40,45,50,60,70,75
φ 16, 20, 25, 32	10,15,20,25,30,35,40,45,50,60,70,75,80,90,100

- Stroke out of specification is also available.
- Please consult us if stroke out of specification.
- It is possible to adjust length of basic stroke by 0~5mm.



### MCDA-03/MCDA-23

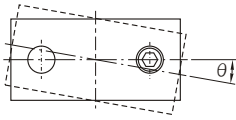


### MCDA-03/MCDA-23

Code Tube I.D.	A	B	C	D	E	F (Thru)	G	H	I	J	K	L	M (Both side)	N (Both side)	φO	Q	QQ	R (Both side)	RA	RB	S	T	TT
12	46	18	44	16	8	2-M4×0.7	35	19	4	8	9	20	4-φ6.5×3.3dp	4-M3×0.5×5dp	6	9	10	4-M5×0.8	30	8	55	/	3.5
16	58	20	56	18	9	2-M5×0.8	45	25	5	10	9	30	4-φ8×4.4dp	4-M4×0.7×6dp	8	10	10	4-M5×0.8	38.5	8	60	/	5
20	64	25	62	23	11.5	2-M5×0.8	50	28	6	12	12	30	4-φ9.5×5.3dp	4-M4×0.7×6dp	10	7.75	12.5	4-M5×0.8	45	8	70	9.5	6.5
25	80	30	78	28	14	2-M6×1.0	60	35	6	12	12	30	4-φ11×6.3dp	4-M5×0.8×8dp	12	8.5	15	4-PT 1/8	46	9	72	13	9
32	98	38	96	36	18	2-M6×1.0	75	44	8	16	14	30	4-φ11×6.3dp	4-M5×0.8×8dp	16	9	19	4-PT 1/8	56	10	82	20	11.5

Code Tube I.D.	V (Both side)	W (Thru)	Z (Stroke)				ZZ
			10, 15, 20, 25	30, 35, 40, 45, 50	60, 70, 75	80, 90, 100	
12	4-M3×0.5×4.5dp	2-M4×0.7	30	40	50	/	72
16	4-M4×0.7×5dp	2-M5×0.8	25	35	45	55	79
20	8-M4×0.7×5.5dp	2-M6×1.0	30	40	60		94
25	8-M5×0.8×7.5dp	2-M8×1.25	30	40	60		96
32	8-M5×0.8×7.5dp	2-M8×1.25	40	50	70		112

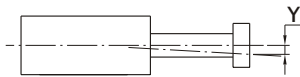
### Anti-roll accuracy :



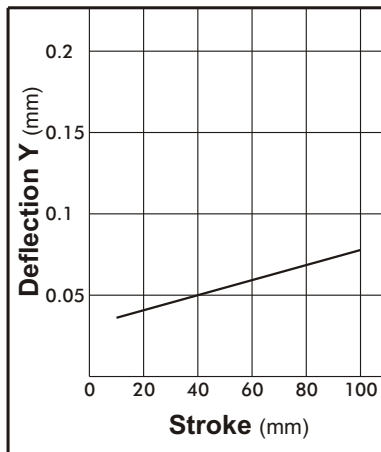
Tube I.D.	$\phi 12 \sim \phi 32$
MCDA-03	$\pm 0.01^\circ$
MCDA-23	

### Capacity for the use as a pusher~

MCDA-02/23, deflection and allowable top load.



- In the actual operation, load at the top should be below the allowable top load.
- Y → Deflection



### Capacity graph

