

MCGD series

TWIN-GUIDE SLIDE CYLINDER



Order example:

MCGD – 03 – 12 – 50 – BSP

MODEL

TUBE I.D.

STROKE

TYPE OF BEARING

Code	Type of bearing
03	Slide bearing
23	Linear bush bearing

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

Features:

- Can be used as plate slide type or body slide type.
- The air cylinder and guide share a compact design which enables the cylinder to work smoothly along its stroke.
- The cylinder is extremely rigid and strong.
- Flush fitting sensor available.
- Magnetic as standard.

Specification:

Model	MCGD	
Model (Stop type view)		
Acting type	Double acting	
Tube I.D.(mm)	12,16	20,25,32
Port size	M5×0.8	PT 1/8
Medium	Air	
Operating pressure range	1~9.9 kgf/cm ²	
Proof pressure	15 kgf/cm ²	
Ambient temperature	-5~+60℃ (No freezing)	
Lubrication	Not required	
Cushion	With rubber cushion pad	
Sensor switch	RCE, RCE1	

Installation of sensor switch

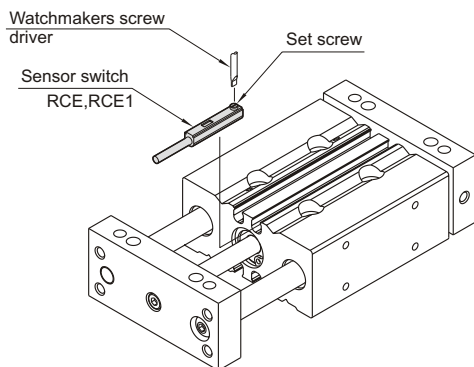


Table for standard stroke

Series variety	Bearing type	Tube I.D.	Stroke (mm)									
			30	50	75	100	125	150	175	200	250	300
MCGD -03	Slide bearing	φ 12										
		φ 16										
		φ 20										
		φ 25										
		φ 32										
MCGD -23	Linear bush bearing	φ 12										
		φ 16										
		φ 20										
		φ 25										
		φ 32										

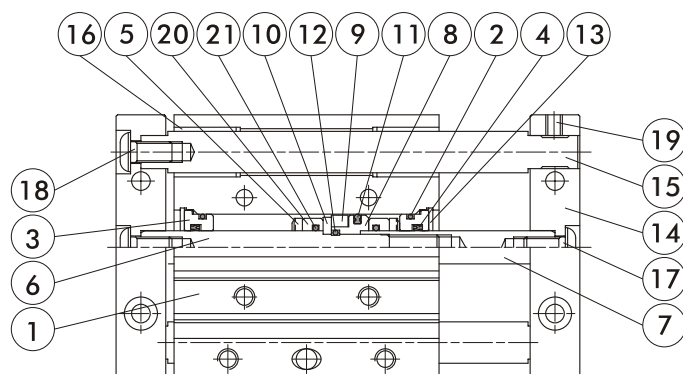
- Stroke out of specification is also available.
- Please consult us if stroke out of specification.

MCGD Inside structure & Parts list

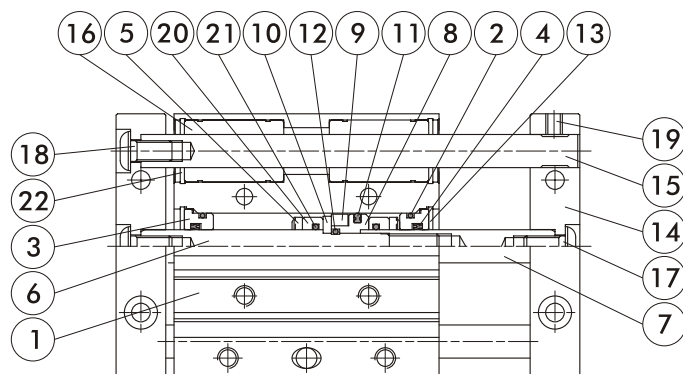
TWIN-GUIDE SLIDE CYLINDER



MCGD-03



MCGD-23



Material

No.	Part name	Material	Note
1	Body	Aluminum alloy	
2	Cover ring	NBR	
3	Rod cover	Aluminum alloy	
4	Rod packing	NBR	
5	Cushion	NBR	
6	Piston rod #1	Medium carbon steel	
7	Piston rod #2	Medium carbon steel	
8	Piston	Aluminum alloy	
9	Magnet ring	Magnet material	
10	Magnet ring holder	Aluminum alloy	
11	Piston packing	NBR	
12	Piston gasket	NBR	

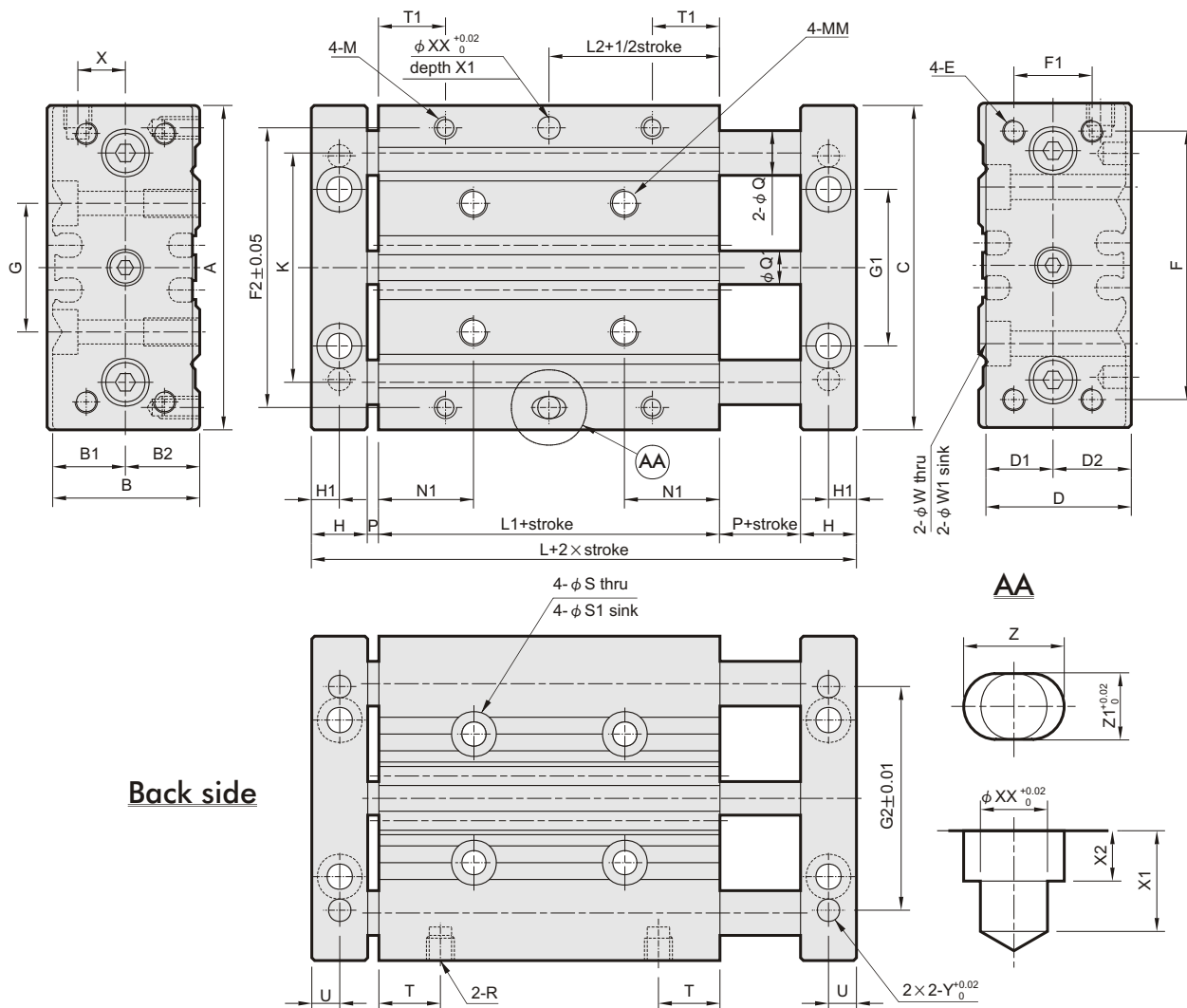
No.	Part name	Material	Note
13	Snap ring	Spring steel	
14	Plate	Aluminum alloy	
15	Guide rod	Medium carbon steel	for 03 type
		Bearing steel	for 23 type
16	Bush	Copper	for 03 type
	Slide bush	—	for 23 type
17	Screw for piston rod	Carbon steel	
18	Screw for guide rod	Carbon steel	
19	Set screw	Carbon steel	
20	Spacer	Aluminum alloy	
21	O-ring	NBR	
22	Snap ring	Spring steel	for 23 type

MCGD Dimensions $\phi 12 \sim \phi 32$

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MCGD-03/23



Back side

Code Tube I.D.	A	B	B1	B2	C	D	D1	D2	E	F	F1	F2	G	G1	G2	H	H1	K	L	L1	L2	M	MM	N1	Q		Q1	P	R
																								MCGD-03	MCGD-23				
12	58	26	13	13	58	26	12	14	M4	48	14	50	23	28	40	10	5	41.5	55	31	15.5	M4×7dp	M5×10dp	17	φ 8	φ 6	φ 6	2	M5
16	64	30	15	15	64	30	14	16	M5	52	16	54	24	32	50	12	6	46	62	34	17	M5×7dp	M5×10dp	17	φ 10	φ 8	φ 8	2	M5
20	85	36	19	17	85	36	16	20	M5	60	18	64	28	37	70	12	6	55	66	38	19	M5×7dp	M6×12dp	20.5	φ 12	φ 10	φ 10	2	PT 1/8
25	96	42	21	21	96	42	20	22	M6	70	26	76	34	44	84	12	6	65	67	39	19.5	M6×9dp	M6×12dp	19.5	φ 16	φ 13	φ 12	2	PT 1/8
32	116	51	25	26	116	51	24	27	M8	96	30	100	42	56	76	14	7	80	68	36	18	M8×11dp	M8×16dp	20	φ 20	φ 16	φ 16	2	PT 1/8

Code Tube I.D.	S	S1	T	T1	U	W	W1	X	XX	X1	X2	Y	Z	Z1
12	φ 4.3	φ 8×4.5dp	11	12	5	φ 4.5	φ 8×4.5dp	8.5	φ 4	6	3	φ 4×5dp	6	4
16	φ 4.3	φ 8×4.5dp	11	13	6	φ 4.5	φ 8×4.5dp	10	φ 5	6	3	φ 5×5dp	7	5
20	φ 5.2	φ 9.5×5.5dp	13.5	14	6	φ 5.5	φ 9.5×5.5dp	11.5	φ 6	8	4	φ 6×8dp	8	6
25	φ 5.2	φ 9.5×5.5dp	11	12	6	φ 5.5	φ 9.5×5.5dp	13.5	φ 6	8	4	φ 6×8dp	8	6
32	φ 6.8	φ 11.5×6.5dp	11	16.5	7	φ 6.6	φ 11×6.5dp	16	φ 8	12	6	φ 8×12dp	10	8