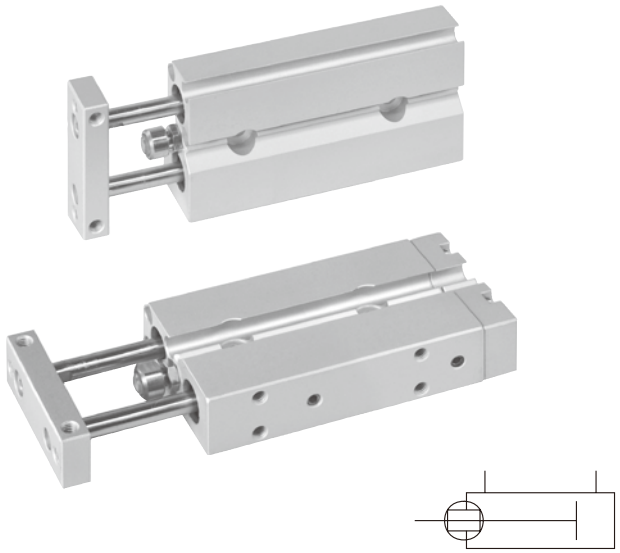
MCDJ series

DUAL-ROD CYLINDER



Features

- Compact in width and length with precision guidance.
- High lateral loads can be applied on both slide and linear bearing unit.
- Magnetic as standard.

Specification

Model		MCDJ	
Acting type		Double acting	
Tube I.D.(mm)		6	10
Port size		M3×0.5	M5×0.8
Medium		Air	
Operating pressure range	Max.	0.7 MPa	
	Min.	0.15 MPa	0.1 MPa
Proof pressure		1 MPa	
Ambient temperature		-5~+60°C (No freezing)	
Cushion		With rubber cushion pad (both side)	
Available speed range		50~500 mm/sec	
Lubrication		Not required (If lubrication is used, apply turbine oil NO1 ISO VG32)	
Sensor switch (*)		RDFE(V), RDGV	

* RDFE(V), RDGV, specification, please refer to page 8-19, 20.

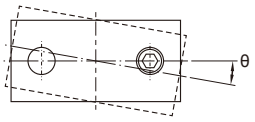
Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke
ø6	10,20,30,40,50	50
ø10	10,20,30,40,50	50

- Please contact us if the stroke is out of specification.
- It is possible to adjust length of basic stroke by 0~5 mm.

Anti-roll accuracy

Code / Type	θ ø6	θ ø10
MCDJ-03	±0.35°	±0.3°

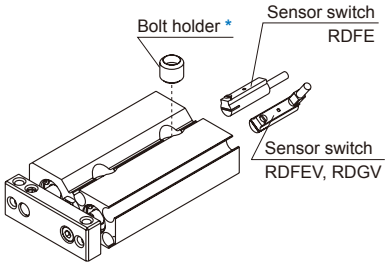


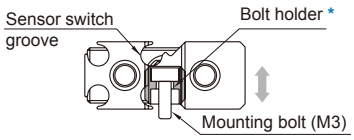
Order example

MCDJ — 03 — 6 — 50 — □

- MODEL
- TYPE OF BEARING **03**: Slide bush
- TUBE I.D.
- STROKE
- Blank: Standard piping **P**: Axial piping

Installation of sensor switch

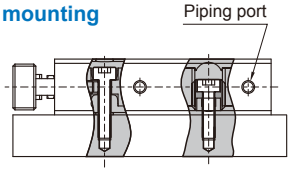




* Since the bolt holder is adjustable, the mounting bolt does not interfere with the sensor switch no matter what direction it is mounted from.
* Do not go beyond the body when adjusting the bolt holder.

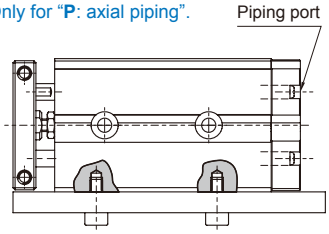
Mounting

Top mounting

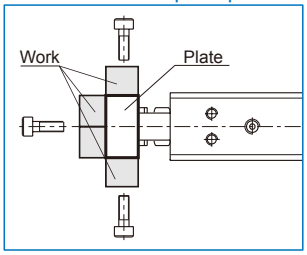


Side mounting

* Only for "**P**: axial piping".



Work can be mounted on three faces of the rod square plate.



MCDJ-03 Inside structure & Parts list

DUAL-ROD CYLINDER

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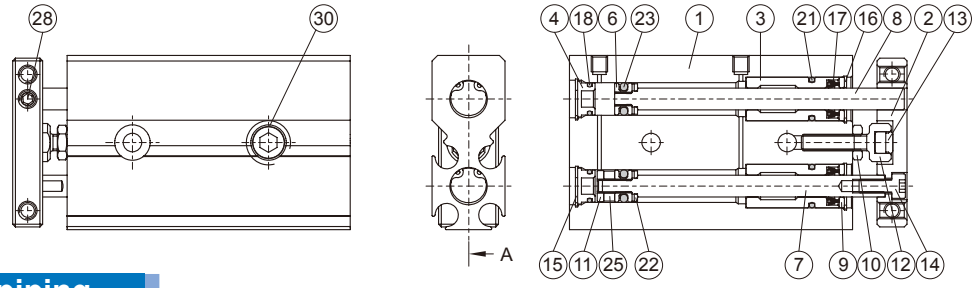
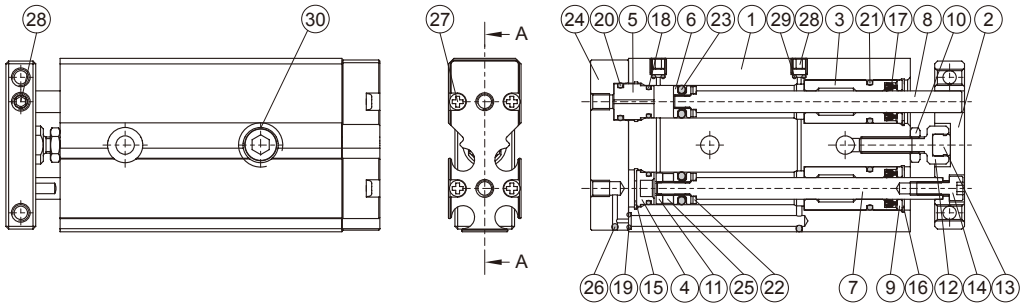
Standrad piping



Axial piping



Material

No.	Tube I.D. / Part name	6	10	Standard piping Q'y	Standard piping Repair kits (inclusion)	Axial piping Q'y	Axial piping Repair kits (inclusion)
1	Body	Aluminum alloy		1		1	
2	Plate	Aluminum alloy		1		1	
3	Rod cover	Aluminum alloy		2		2	
4	End cover	Aluminum alloy		2		1	
5	End cover (Axial)	Aluminum alloy		–		1	
6	Piston	Stainless steel		2		2	
7	Piston rod #1	Stainless steel		1		1	
8	Piston rod #2	Stainless steel		1		1	
9	Rod cover washer	SUS	—	2		2	
10	Nut	Carbon steel		1		1	
11	Piston	Aluminum alloy		1		1	
12	Cushion screw	Stainless steel		1		1	
13	Bumper	PU		1		1	
14	Screw	Stainless steel		1		1	
15	Snap ring	Spring steel		2		1	
16	Snap ring	Spring steel		2		2	
17	Rod packing	NBR		2	●	2	●
18	O-ring	NBR		2	●	2	●
19	O-ring	NBR		–		1	●
20	O-ring	NBR		–		1	●
21	O-ring	NBR		2	●	2	●
22	Rod cushion	NBR		2	●	2	●
23	Piston packing	NBR		2	●	2	●
24	Port cover	Aluminum alloy		–		1	
25	Magnet ring	Magnet material		1		1	
26	Steel ball	Stainless steel		–		2	
27	Screw	Iron		–		4	
28	Bolt	Stainless steel		1		3	
29	O-ring	NBR		–		2	●
30	Bolt holder	Stainless steel		1		1	

Order example of repair kits

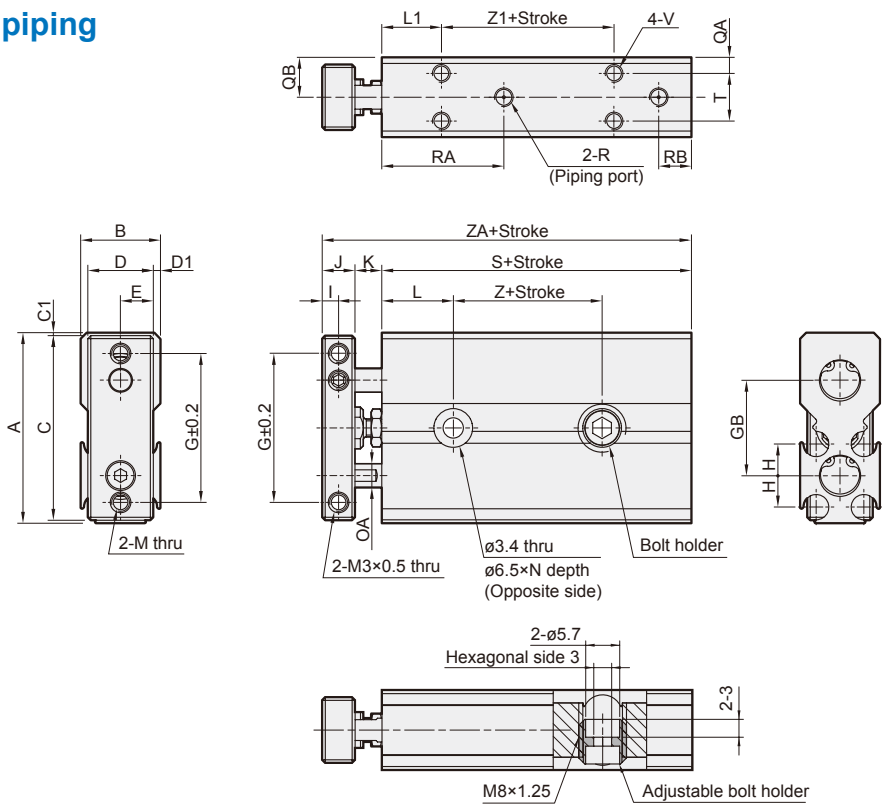
Piping type	Tube I.D.	Repair kits
Standard	ø6	**PS-MCDJ-6**
	ø10	**PS-MCDJ-10**
Axial	ø6	**PS-MCDJ-6-P**
	ø10	**PS-MCDJ-10-P**
Lubricant (10g)		**GR-A-010**

Cylinder weight

Unit: g

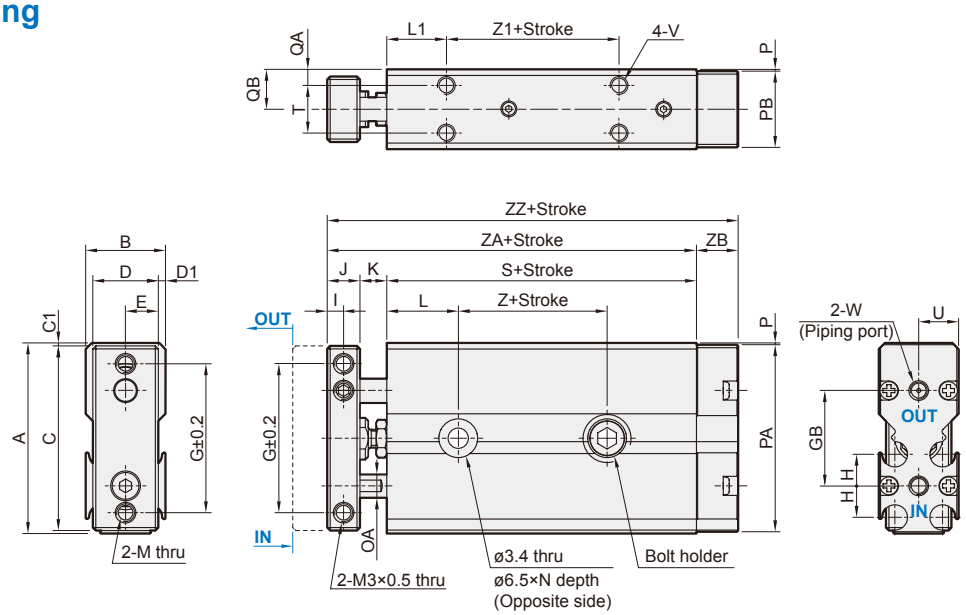
Piping type	Standard piping		Axial piping	
Tube I.D. / Stroke	ø6	ø10	ø6	ø10
10	45	97	51	109
20	54	111	61	124
30	64	125	71	137
40	74	139	80	152
50	84	154	90	166
75	—	188	—	201

Standrad piping



Axial piping

P



Code / Tube I.D.	A	B	C	C1	D	D1	E	G	GB	H	I	J	K	L	L1	M	N	OA	P	PA	PB	QA	QB	R	RA	RB
6	32	13.4	31	0.5	11	1.2	5.5	25	16	5.3	2.75	5.5	4.5	12	10	M3×0.5	5	ø4	0.3	31.4	12.8	2.7	6.7	M3×0.5×3 dp	20.5	5.5
10	42	15	40	1	13	1	6.5	33	20	8	4	8	3.5	16	16	M4×0.7	5.5	ø6	0.3	41.4	14.4	3.5	7.5	M5×0.8×4 dp	28.5	8

Code / Tube I.D.	S	T	U	V	W	Z	Z1	ZA	ZB	ZZ
6	32	8	6.7	M3×0.5×3.5 dp	M3×0.5×3 dp	5	9	42	7	49
10	44.5	8	7.5	M3×0.5×4.5 dp	M5×0.8×4 dp	8	12	56	8.5	64.5