

MCQI2 SERIES

ISO-VDMA STANDARD PROFILE CYLINDER

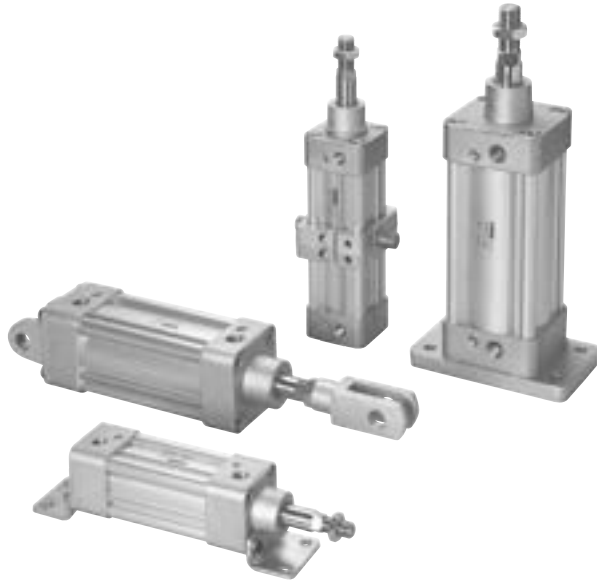


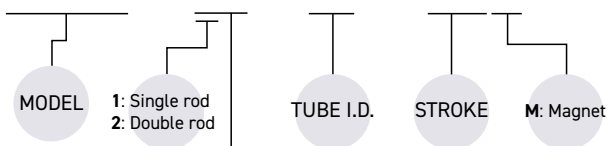
Table for standard stroke

Tube I.D.	Stroke (mm)
ø32,40	50,75,100,125,150,175,200,250,300,350,400,450,500
ø50,63	↑ 600
ø80,100	↑ 600,700

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

Order example

MCQI2 — 11 — 50 — 100M



STYLE

Code	Symbol	Description
1 1		Double acting / Male thread
2 1		Double rod / Double acting / Male thread
2 7		Double rod / Adjustable male thread (Please mark "adjustable distance(mm)" at order list)

- * Order example for special specification, refer to page 0-7.
- * Order example for **Rc** or **NPT** thread please consult us.

Features

• Non lubrication

Special housing and bushing enables self lubrication of piston rod.

• High quality long service life

Hard anodised aluminium cylinder tubes offer a high resistance to corrosion and low internal friction.

• ISO-VDMA standard specification

Conforms to ISO-6431 and VDMA 24562 specification enabling worldwide interchangeability.

• Easy to insert reed switch

With four grooves on the tube, proximity and reed sensors can be easily inserted into any position.

Specification

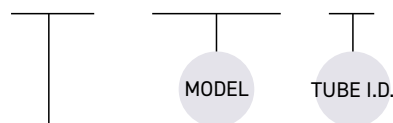
Model	MCQI2
Tube I.D. (mm)	32,40,50,63,80,100
Medium	Air
Operating pressure range	0.05~1 MPa
Proof pressure	1.5 MPa
Ambient temperature	-5~+60°C (No freezing)
Available speed range	50~500 mm/sec
Sensor switch (*)	AL-39

* AL-39 specification, please refer to page (enter page).

Mounting accessories

* Use the same accessories with **MCQV**.

FAC — MCQV — 50



MOUNTING TYPE

	LB
	CA
	CB
	CDB (+CB+PIN)*
	FAC
	FBC
	TA
	TB
	TC
	Y
	I
	YS (Y+Floating+PIN)

* CB+PIN have to extra purchase.

Model is MCQI2

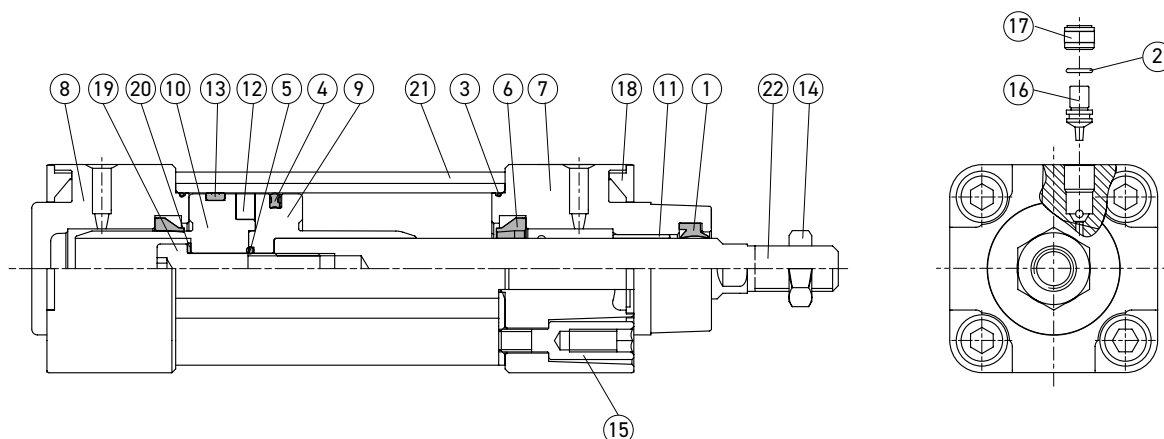
Refer to MCQV dimension

MCQI2-11 Inside structure & Parts list

ISO-VDMA STANDARD PROFILE CYLINDER

Single rod 11 type

ø32~ø100



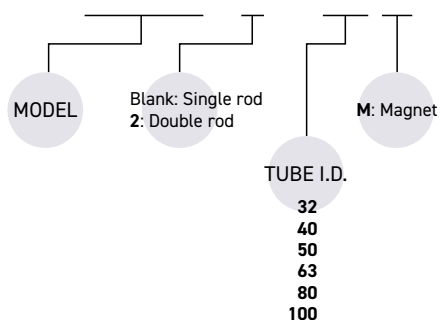
Material

No.	Part name	Material	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Rod packing	NBR	1	●	●
2	O-ring	NBR	2	●	●
3	O-ring	NBR	2	●	●
4	Piston packing	NBR	1	●	●
5	O-ring	NBR	1	●	●
6	Cushion packing	NBR	2	●	●
7	Rod cover	Aluminum alloy	1	●	
8	Head cover	Aluminum alloy	1	●	
9	Piston-R	Aluminum alloy	1	●	
10	Piston-H	Aluminum alloy	1	●	
11	Bush	Bearing alloy	1	●	
12	Magnet ring	Magnet material	1	◎	
13	Wear ring	Teflon	1	●	
14	Nut	Carbon steel	1	●	
15	Screw	Carbon steel	8	●	
16	Needle valve	Copper alloy	2	●	
17	Insert nut	Copper alloy	2	●	
18	Cover plate	Plastic	2	●	
19	Bolt	Carbon steel	1	●	
20	Washer	Carbon steel	1	●	
21	Cylinder tube	Aluminum alloy	1		
22	Piston rod	Carbon steel	1		

* ◎ Option

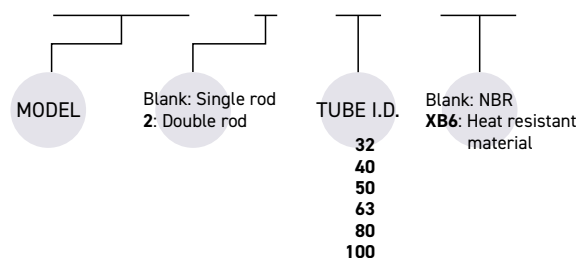
Order example of component parts

CP — MCQI2 — 2 — 40 M



Order example of repair kits

PS — MCQI2 — 2 — 40 — XB6

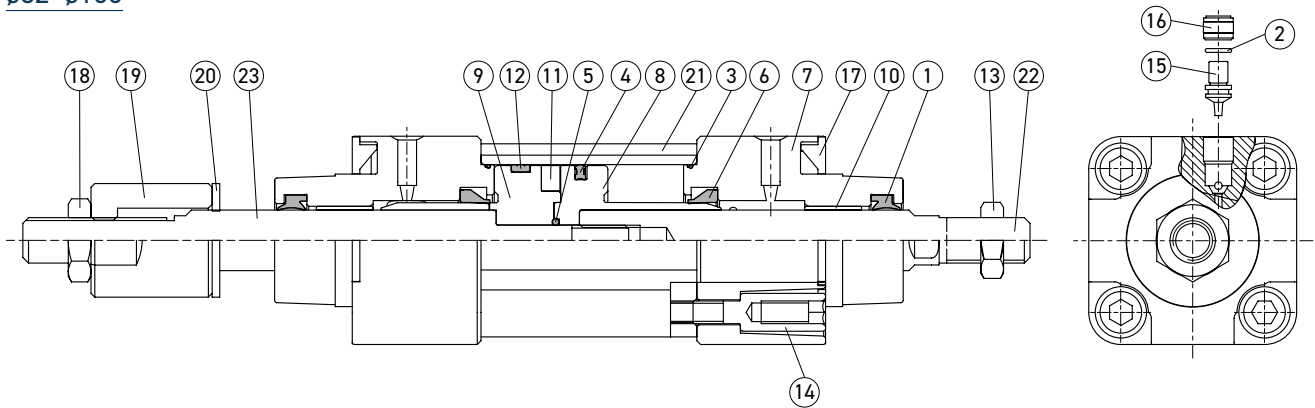


MCQI2-2* Inside structure & Parts list

ISO-VDMA STANDARD **PROFILE** CYLINDER

Double rod 21 / 27 type

ø32~ø100



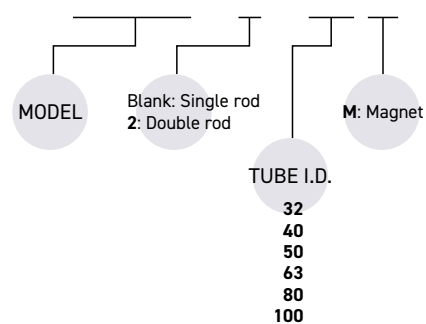
Material

No.	21 type	27 type	Part name	Material	Q'ty	Component parts (inclusion)	Repair kits (inclusion)
1	●	●	Rod packing	NBR	2	●	●
2	●	●	O-ring	NBR	2	●	●
3	●	●	O-ring	NBR	2	●	●
4	●	●	Piston packing	NBR	1	●	●
5	●	●	O-ring	NBR	1	●	●
6	●	●	Cushion packing	NBR	2	●	●
7	●	●	Rod cover	Aluminum alloy	2	●	
8	●	●	Piston-R	Aluminum alloy	1	●	
9	●	●	Piston-h	Aluminum alloy	1	●	
10	●	●	Bush	Bearing alloy	2	●	
11	●	●	Magnet ring	Magnet material	1	◎	
12	●	●	Wear ring	Teflon	1	●	
13	●	●	Nut	Carbon steel	1	●	
14	●	●	Screw	Carbon steel	8	●	
15	●	●	Needle valve	Copper alloy	2	●	
16	●	●	Insert nut	Copper alloy	2	●	
17	●	●	Cover plate	Plastic	2	●	
18		●	Nut	Carbon steel	1		
19		●	Adjustable nut	Carbon steel	1		
20		●	Gasket	PU	1		
21	●	●	Cylinder tube	Aluminum alloy	1		
22	●	●	Piston rod #1	Carbon steel	1		
23	●	●	Piston rod #2	Carbon steel	1		

*◎ Option

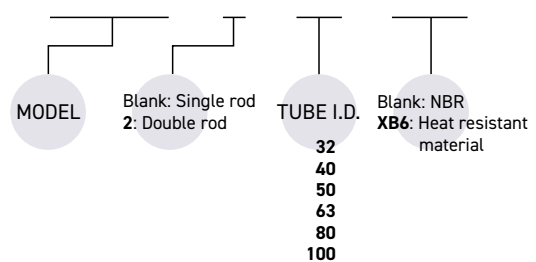
Order example of component parts

CP — MCQI2 — 2 — 40 M



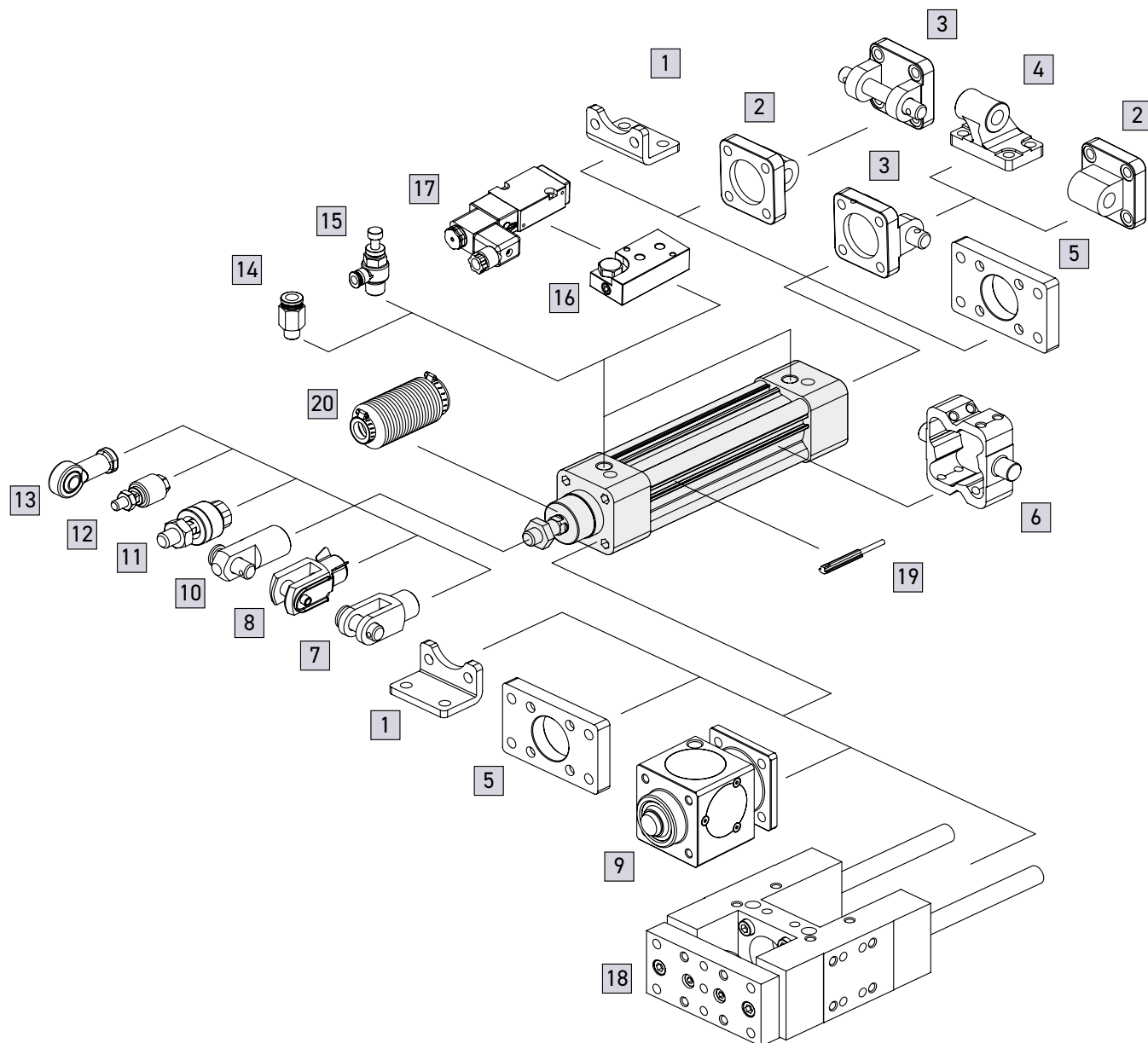
Order example of repair kits

PS — MCQI2 — 2 — 40 — XB6



MCQI2 Accessories

ISO-VDMA STANDARD PROFILE CYLINDER



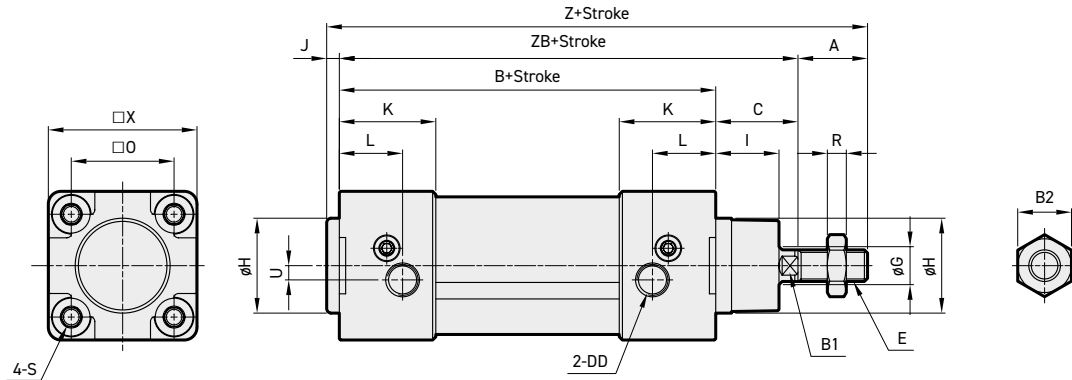
No.	Accessories	Page
1	Mounting accessories LB	
2	Mounting accessories CA	
3	Mounting accessories CB+PIN	
4	Mounting accessories CDB	
5	Mounting accessories FAC / FBC	
6	Mounting accessories TA / TB / TC	
7	Accessories Y+PIN	
8	Accessories YS (Y+Floating pin)	
9	Accessories I+PIN	
10	Locking unit MCBQI2	

No.	Accessories	Page
11	Floating joint MFC	
12	Floating joint MFCS	
13	Female rod ends PHS	
14	Fitting PC (PISCO)	
15	Speed controller JSC (PISCO)	
16	Sensor switch RCI	
17	Cylinder link seats MVSN-300-C	
18	Solenoid valve MVSN-220 / 300	
19	Twin-guide cylinders MGTB/TU/TX	
20	Protective bellows kit	—

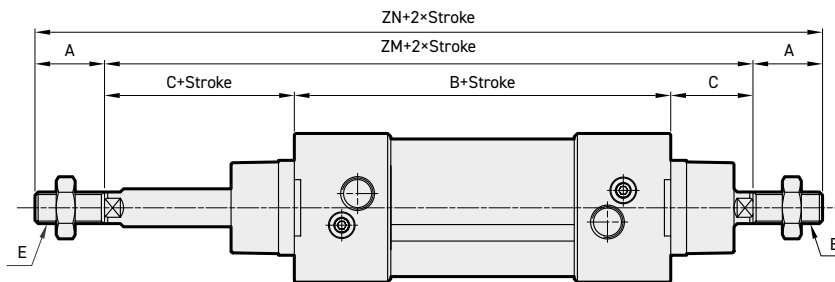
MCQI2 Dimensions $\phi 32 \sim \phi 100$

ISO-VDMA STANDARD PROFILE CYLINDER

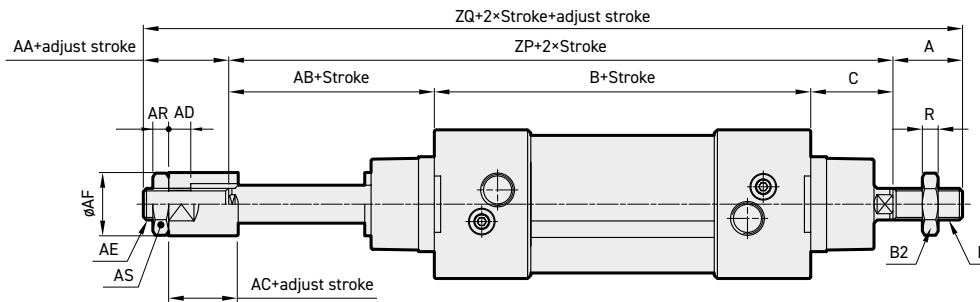
11



21



27



Code Tube I.D.	A	AA	AB	AC	AD	AE	AF	AR	AS	B	B1	B2	C	DD	E	G	H	I	J	K	L	O
32	22	16	26	12	7	M10×1.25	20	5	17	94	10	17	26	G1/8	M10×1.25	12	30	20	4	30.5	20	32.5
40	24	20	27	12	7	M12×1.25	30	6	19	105	13	19	30	G1/4	M12×1.25	16	35	20.5	4	34	14.5	38
50	32	18	34	15	10	M16×1.5	40	8	24	106	16	24	37	G1/4	M16×1.5	20	40	28	4	31	16	46.5
63	32	20	32	15	10	M16×1.5	40	8	24	121	16	24	37	G3/8	M16×1.5	20	45	26	4	33	16	56.5
80	40	32	41	20	14	M22×1.5	50	13	32	128	21	30	46	G3/8	M20×1.5	25	45	32.5	4	35.5	20.5	72
100	40	30	46	20	14	M22×1.5	50	13	32	138	21	30	51	G1/2	M20×1.5	25	55	37.5	4	37	19	89

Code Tube I.D.	R	S	U	X	Z	ZB	ZM	ZN	ZP	ZQ
32	5	M6×1.0	4.5	47	146	120	146	190	146	184
40	6	M6×1.0	5.3	55	163	135	165	213	162	206
50	8	M8×1.25	8.5	65	179	143	180	244	177	227
63	8	M8×1.25	8	78	194	158	195	259	190	242
80	10	M10×1.5	9	95	218	174	220	300	215	287
100	10	M10×1.5	13	115	233	189	240	320	235	305