



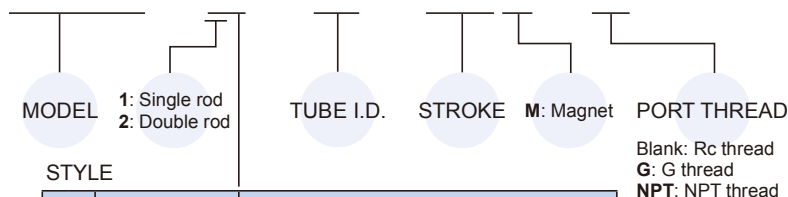
Table for standard stroke

Tube I.D.	Stroke (mm)
ø40	50,75,100,125,150,175,200,250,300,350,400,450,500
ø50,63	↑ 600
ø80,100	↑ 600,700
ø125,150	↑ 600,700,800,900,1000
ø200	↑ 600,700,800,900,1000,1500

* Please contact us if the stroke is out of specification.

Order example

MCQA — 11 — 40 — 100M — □



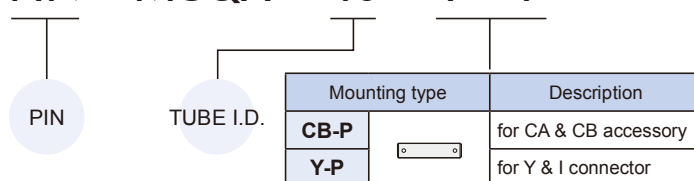
STYLE

Code	Symbol	Description
1 1		Double acting / Male thread
2 1		Double rod / 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 of pin

PIN — MCQA — 40 — Y — P



* P: With split pin

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.

■ Non standard type

Custom cylinders are available as are non standard strokes, rod extensions and special rod threads.

■ Cylinder mountings

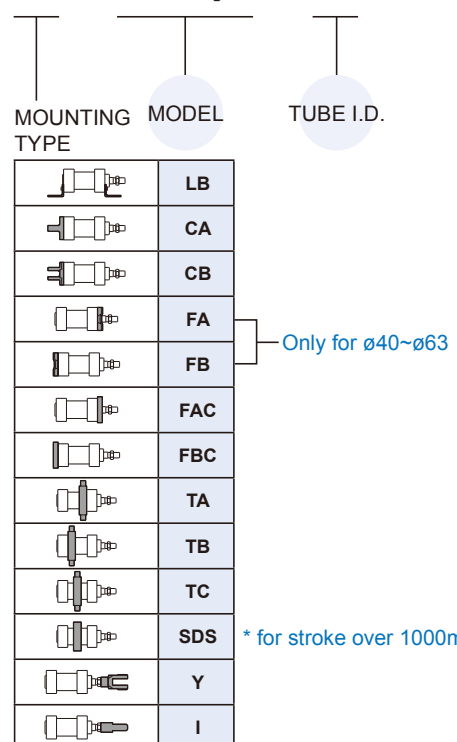
Available with comprehensive internationally recognised range of fixed and flexible mountings.

Specification

Model	MCQA				
Tube I.D. (mm)	40,50,63	80,100	125	150	200
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	RCA (Please refer to page 8-8)				
Sensor switch holder	HV2	HV4	PM14	PM16	HA5

Mounting accessories

LB — MCQA — 40



MCQA-11 Inside structure & Part list

STANDARD CYLINDER

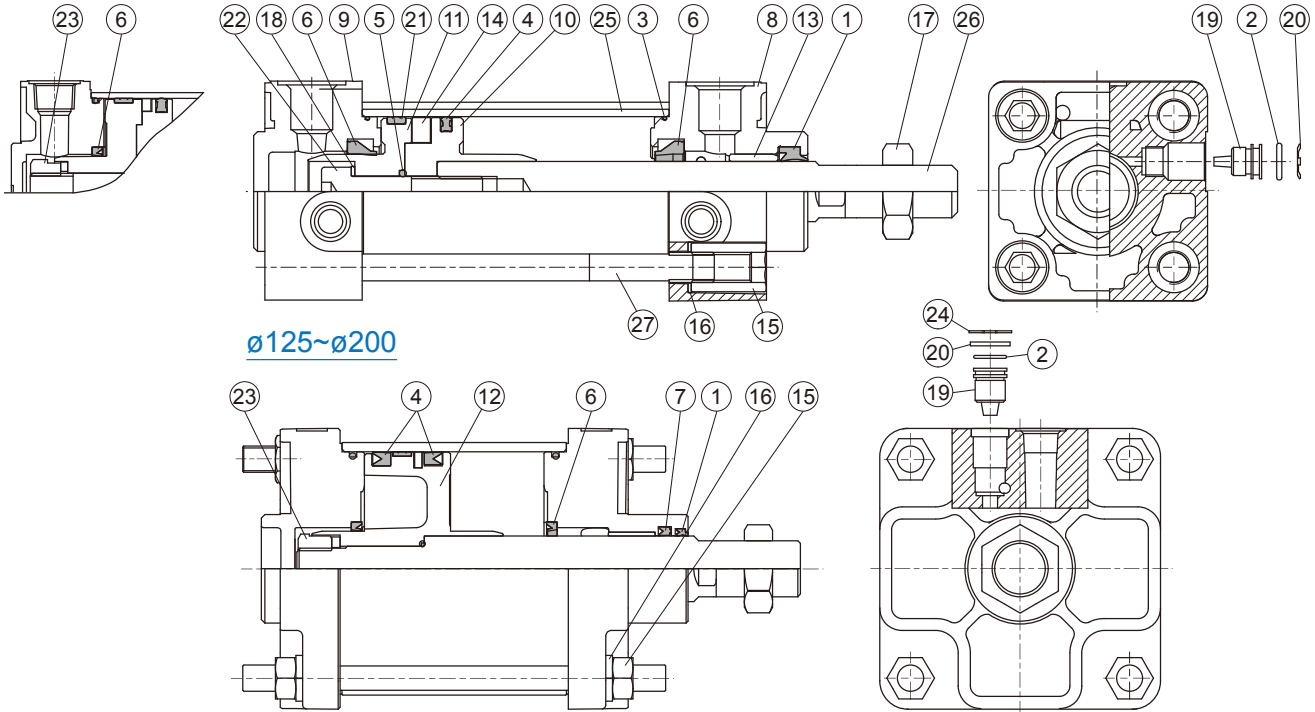


Mindman

Single rod 11 type

ø80, ø100

ø40~ø63

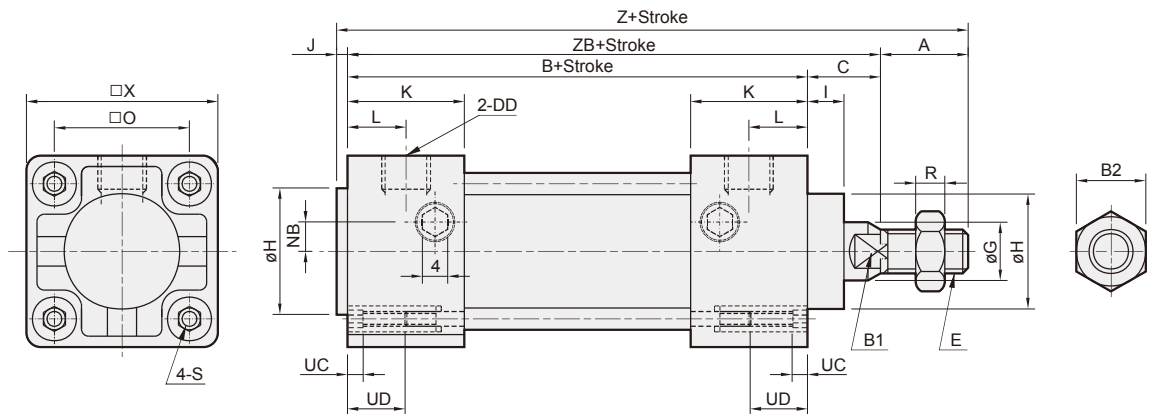


No.	Part name	Material	Q'y	Component parts (inclusion)		Repair kits (inclusion)	Note
				ø40~ø100	ø125~ø200		
1	Rod packing	NBR	1	●	●	●	
2	O-ring	NBR	2	●	●	●	
3	O-ring	NBR	2	●	●	●	
4	Piston packing	NBR	1 or 2	●	●	●	ø125~ø200 (Q'y=2)
5	O-ring	NBR	1	●	●	●	
6	Cushion packing	NBR	2	●	●	●	Repair kits ø40~ø80 (inclusion)
7	Rod packing	NBR	1		●	●	
8	Rod cover	Aluminum alloy	1	●	●		
9	Head cover	Aluminum alloy	1	●	●		
10	Piston-R	Aluminum alloy	1	●			
11	Piston-H	Aluminum alloy	1	●			
12	Piston	Aluminum alloy	1		●		
13	Bush	Bearing alloy	1	●	●		
14	Magnet ring	Magnet material	1	◎	◎		◎ Option
15	Tie rod nut	Carbon steel	8	●	●		
16	Tie rod washer	Carbon steel	8	●	●		
17	Hex nut	Carbon steel	1	●	●		
18	Washer	Carbon steel	1	●	●		
19	Needle valve	Copper alloy	2	●	●		
20	Needle valve washer	*1	2	●	●		
21	Wear ring	Resin	1	●	●		
22	Bolt	Carbon steel	1	●			for ø40~ø63
23	Piston nut	Carbon steel	1		●		for ø80~ø200
24	Snap ring	Carbon steel	2		●		
25	Cylinder tube	Aluminum alloy	1				
26	Piston rod *2	Carbon steel	1				
27	Tie rod	Carbon steel	4				

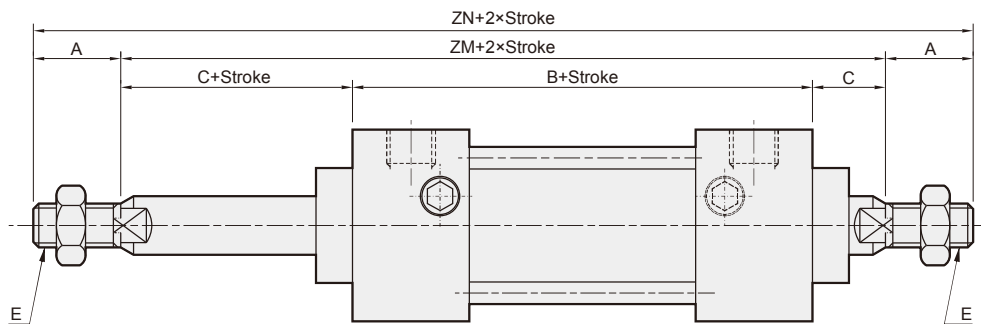
*1. ø40~ø100: Spring steel, ø125~ø200: Carbon steel

*2. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

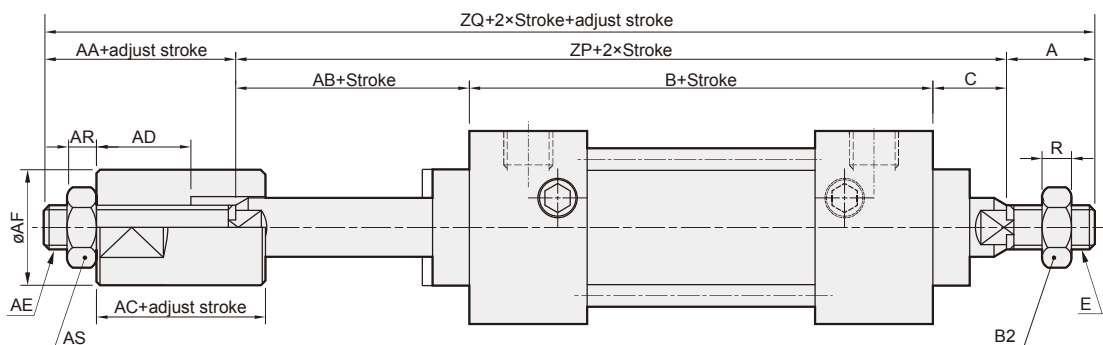
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Code Tube I.D.	A	AA	AB	AC	AD	AE	AF	AR	AS	B	B1	B2	C	DD	E	G	H	I	J	K	L	NB	O	R
40	30	21	18	12	7	M12×1.25	30	7	19	84	14	22	21	Rc1/4	M14×1.5	16	32	11	3	26	13	8	40.5	8
50	35	23	18	15	10	M16×1.5	40	8	24	90	17	26	23	Rc3/8	M18×1.5	20	40	11	3	28	14	0	48	11
63	35	23	18	15	10	M16×1.5	40	8	24	98	17	26	23	Rc3/8	M18×1.5	20	40	11	3	30	15	0	59	11
80	40	33	24	20	14	M22×1.5	50	13	32	116	22	32	31	Rc1/2	M22×1.5	25	45	15	4	34	17	0	74	13
100	40	33	24	20	14	M22×1.5	50	13	32	126	27	36	32	Rc1/2	M26×1.5	30	52	15	5	37	18.5	0	90	14

Code Tube I.D.	S	UC	UD	X	Z	ZB	ZM	ZN	ZP	ZQ
40	M8×1.25	4	12	58	138	105	126	186	123	174
50	M8×1.25	4	12	66	151	113	136	206	131	189
63	M8×1.25	4	12	80	159	121	144	214	139	197
80	M12×1.75	4	15	100	191	147	178	258	171	244
100	M12×1.75	4	15	118	203	158	190	270	182	255