

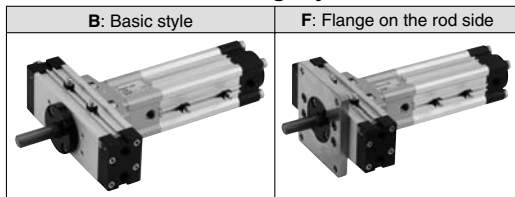
Rotary Cylinder Series *MRQ*

Size: 32, 40

How to Order

MRQ **B** **S** **32** - **50** **C** **A** - **J79W** -

Mounting style



Size/Standard stroke (mm)

32	5, 10, 15, 20, 25, 30, 40, 50, 75, 100
40	

* Refer to pages 352 and 353 for middle and long strokes other than standard stroke.

Air cushion

C	With air cushion on the linear motion parts
N	Without air cushion on the linear motion parts

Rotation angle

A	80 to 100°
B	170 to 190°

Made to Order or port type

Refer to page 343 for the Made to Order details.

Nil	Rc 1/8
XF*	G 1/8
XN*	NPT 1/8

* The combination with Made to Order is not available.

Number of auto switches

Linear motion	Rotation		
	0	1	2
0	—	OS	O2
1	SO	SS	S2
2	2O	2S	Nil

Auto switch

Nil	Without auto switch (built-in magnet)
------------	---------------------------------------

* For the applicable autoswitch model, refer to the table below.

Nil	Standard
X	Made to Order

Applicable Auto Switch (Common for the linear and the rotary motion parts)/Refer to pages 761 to 809 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m) *				Pre-wired connector	Applicable load		
					DC	AC	Auto switch model		0.5 (Nil)	3 (L)	5 (Z)	None (N)				
							Perpendicular	In-line								
Solid state switch	—	Grommet	Yes	3-wire (NPN)	5V, 12V	—	F7NV	F79	●	●	○	—	○	IC circuit	Relay, PLC	
		3-wire (PNP)		F7PV			F7P	●	●	○	—	○				
	Connector	2-wire		12V	F7BV		J79	●	●	○	—	○	—			
		3-wire (NPN)		5V, 12V	J79C		—	●	●	●	●	—				
	Diagnostic indicator (2-color)	Grommet		3-wire (PNP)	5V, 12V		F7NWW	F79W	●	●	○	—	○	IC circuit		
				—	F7PW		●	●	○	—	○					
	Water resistant (2-color)	Grommet		2-wire	12V		F7BWV	J79W	●	●	○	—	○	—		
				—	**F7BAV		**F7BA	—	●	○	—	○				
Diagnosis output (2-color)		4-wire (NPN)	5V, 12V	—	F79F	●	●	○	—	○	IC circuit					
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5V	—	A76H	●	●	—	—	—	IC circuit	Relay, PLC	
				2-wire	24V	12V	—	—	200V	A72	A72H	●	●	—		—
		100V					A73	A73H	●	●	●	—	—	—		
		100V or less					A80	A80H	●	●	—	—	—	—		IC circuit
		—					A73C	—	●	●	●	●	—	—		—
		—					A80C	—	●	●	●	●	—	—		—
	Diagnostic indicator (2-color)	Grommet		—	—	A79W	—	●	●	—	—	—	—			

** Although it is possible to mount water resistant type auto switches, note that the rotary actuator itself is not of water resistant construction.

* Lead wire length symbols: 0.5 m..... Nil (Example) A73C
3 m..... L (Example) A73CL
5 m..... Z (Example) A73CZ
None..... N (Example) A73CN

• Since other auto switches are available other than those listed above, refer to page 350 for details on other applicable auto switches.

* Auto switch is shipped together (not assembled).



Refer to pages 796 and 797 for detailed solid state auto switches with pre-wired connectors.



Made to Order

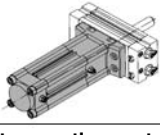
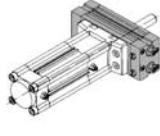
(Refer to pages 352 and 353 for details.)

Symbol	Specifications/Description
X1	Intermediate stroke
X2	Rod-end female thread
X5	Change of angle adjustable range
X10	Long Stroke (101 to 200 mm)

Standard Specifications

Fluid	Air (Non-lube)
Max. operating pressure (MPa)	0.7 MPa
Min. operating pressure (MPa)	0.15 MPa
Ambient and fluid temperature	0 to 60°C (No freezing)
Mounting	Basic style, Rod side flange style

Linear Motion Parts, Rotary Motion Parts/Specifications

Linear motion parts	Size	32	40
	Piston speed	50 to 500 mm/s	
	Cushion	With air cushion, Without air cushion	
	Port size	Rc 1/8	
Rotary motion parts	Size	32	40
	Output torque (At 0.5 MPa)	1 N·m	1.9 N·m
	Rotation time adjustment range	0.2 to 1 ^S /90°	
	Cushion	None	
	Allowable kinetic energy	0.023J	0.028J
	Port size	1/8, M5 x 0.8 (The port is plugged for delivery.)	
	Backlash	2° or less	



* For detailed explanation of effective output, refer to the description on page 338.

Linear Motion Parts/Standard Stroke

Size	Standard stroke (mm)
32, 40	5, 10, 15, 20, 25, 30, 40, 50, 75, 100



* Refer to page 352 for other intermediate strokes.

Mass

Size	Rotating angle	Basic mass (g)	Add'l stroke mass (g/mm)	Flange (g)
32	80° to 100°	1400	4	500
	170° to 190°	1500		
40	80° to 100°	2100	5	500
	170° to 190°	2300		

Calculation: (Example) **MRQBS32-50CA**

•Basic mass 1400 g
 •Stroke additional mass 4 x 50 = 200 g
 Total 1600 g



* For the mass of auto switch alone, refer to pages 767 to 809.

Possible to Exchange Basic Style with Flange Style

Specify with the part numbers shown below when ordering flange parts.

Size	Part no.
32	P317010-7
40	P317020-7

Attached parts: Flange 1 piece
 Hexagon socket head cap screw 4 pieces

CRB2

CRBU2

CRB1

MSU

CRJ

CRA1

CRQ2

MSQ

MSZ

CRQ2X
MSQX

MRQ

D-□