

Rotary Clamp Cylinder: Heavy Duty Type

Series MK2

See MK-Z

ø20, ø25, ø32, ø40, ø50, ø63

How to Order

MK2 B 20 - **10 R F** - **M9BW**

Rotary clamp cylinder
Heavy duty type

Mounting bracket

B	Through-hole/Both ends tapped common (Standard)
G	Head end flange

* Head end flange is equipped with a boss mounting. Be sure to specify body option "F".
* Mounting bracket is included, (but not assembled).

Bore size

20	20 mm	40	40 mm
25	25 mm	50	50 mm
32	32 mm	63	63 mm

Port thread type

Nil	M thread	ø20, ø25
	Rc	
TN	NPT	ø32 to ø63
TF	G	

Clamp stroke

Symbol	Clamp stroke	Applicable bore size
10	10 mm	ø20 to ø40
20	20 mm	ø20 to ø63
50	50 mm	ø50 to ø63

Number of auto switches

Nil	2 pcs.
S	1 pc.

Auto switch type

Nil	Without auto switch (Built-in magnet)
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* For applicable auto switch models, refer to the below table.

Body option

Nil	Standard (Female thread)
F	With boss on head end
N	With arm

* Arms are assembled at the time of shipment.

Rotary direction (Unclamp → Clamp)

R	Clockwise
L	Counterclockwise

Applicable Auto Switches

Refer to page 29 through to 39 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	Perpendicular	In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)		None (N)				
								ø20 to ø32	ø40 to ø63										
Solid state switch		Grommet		3-wire (NPN)	24 V	5 V, 12 V		M9NV	M9N	●	—	●	○	—	○	IC circuit	Relay, PLC		
				3-wire (PNP)				M9PV	M9P	●	—	●	○	—	○				
		Connector	2-wire	M9BV				M9B	●	—	●	○	—	○					
				J79C				—	●	—	●	●	●	—	—				
	Diagnostic indication (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9N WV	M9N W	●	●	●	○	—	○	IC circuit	Relay, PLC		
				3-wire (PNP)				M9P WV	M9P W	●	●	●	○	—	○				
				2-wire				M9B WV	M9B W	●	●	●	○	—	○				
				3-wire (NPN)				M9N AV	M9N A	○	○	●	○	—	○				
				3-wire (PNP)				M9P AV	M9P A	○	○	●	○	—	○				
				2-wire				M9B AV	M9B A	○	○	●	○	—	○				
Diagnostic output (2-color indication)	Grommet	Yes	4-wire	24 V	5 V, 12 V	—	F79F	F79F	●	—	●	○	—	○	IC circuit	Relay, PLC			
Magnetic field resistant (2-color indication)			2-wire (No polarity)				—	—	—	—	—	—	●	●			—	○	
Reed switch		Grommet	Yes	3-wire (NPN equivalent)	24 V	5 V	—	A96V	A96	●	—	●	—	—	IC circuit	Relay, PLC			
				Connector				2-wire	12 V	200 V	A72	A72H	●	—			●	—	—
									12 V	100 V	A93V	A93	●	—			●	—	—
		Grommet	No	5 V, 12 V	100 V or less	A90V	A90	●	—	●	—	—	IC circuit	Relay, PLC					
				Yes	12 V	—	A73C	—	●	—	●	●			●	—			
		Connector	No	5 V, 12 V	24 V or less	A80C	—	●	—	●	●	●	—	IC circuit	Relay, PLC				
Yes	—			—	A79W	—	●	—	●	—	—								

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9N WZ
None N (Example) J79CN

* Solid state switches marked with "○" are produced upon receipt of order.
* For D-P4DW, ø40 to ø63 are available.
* Only D-P4DW type is assembled at the time of shipment.

* Since there are other applicable auto switches than listed, refer to page 18 for details.
* For details about auto switches with pre-wired connector, refer to page "Best Pneumatics 2004" catalog.
* When mounting models D-M9□(V), M9□W(V), M9□A(V), and A9□(V) with between ø32 and ø50 on sides other than the port side, please order a switch mounting bracket separately as per the instructions on page 17, and refer to cases CDQP2B32 to 100 in Information (04-E514) "Cylinder with Compact Auto Switch."
* Auto switches are included, (but not assembled).