

# Rotary Clamp Cylinder: Standard

# Series MK

See MK-Z

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63

## How to Order

**Ordering Example:** MK A 20 - 10 R F - M9BW -

**Rotary clamp cylinder**  
Standard

**Mounting bracket**

Symbol	Mounting	Applicable bore size (mm)
B	Through-hole/Both ends tapped common (Standard)	ø12, ø16
A	Both ends tapped	ø20 to ø63
B	Through-hole	
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**

Symbol	Bore size (mm)	Mounting bracket
12	12 mm	32
16	16 mm	40
20	20 mm	50
25	25 mm	63

**Port thread type**

Symbol	Thread	Applicable bore size (mm)
Nil	M thread	ø12 to ø25
TN	NPT	ø32 to ø63
TF	G	

**Clamp stroke**

Symbol	Clamp stroke (mm)	Applicable bore size (mm)
10	10 mm	ø12 to ø40
20	20 mm	ø12 to ø63
50	50 mm	ø50 to ø63

**Number of auto switches**

Symbol	Number of auto switches
Nil	2 pcs.
S	1 pc.

**Auto switch type**

Symbol	Auto switch type
Nil	Without auto switch (Built-in magnet)

\* For applicable auto switch models, refer to the below table.

**Body option**

Symbol	Body option
Nil	Standard (Female thread)
M	Rod end width across flats *
F	With boss on head end *
N	With arm

**Made to Order**  
(Refer to page 2 and 40.)

\* Regarding body option manufacturable range, refer to the below table.

**Body Option Manufacturable Range**

Bore size	Nil	M	F	N	MF	FN
ø12, ø16	●	—	—	●	—	—
ø20 to ø63	●	●	●	●	●	●

\* Arms are assembled at the time of shipment.

**Rotary direction (Unclamp → Clamp)**

Symbol	Rotary direction
R	Clockwise
L	Counterclockwise

## Applicable Auto Switches

Applicable Auto switch																							
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)								
							ø12, ø16	ø20 to ø63	ø12, ø16	ø20 to ø63													
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV		M9N		●	—	●	○	—	○	IC circuit	Relay, PLC				
		3-wire (PNP)		M9PV				M9P		●	—	●	○	—	○								
	Connector	2-wire		12 V				M9BV		M9B		●	—	●	○	—	○	—					
		— J79C		—				●	—	●	●	●	—	—									
	Diagnostic indication (2-color indication)	Grommet		3-wire (NPN)				5 V, 12 V	M9NWV		M9NW		●	●	●	○	—	○		IC circuit			
				3-wire (PNP)				5 V, 12 V	M9PWV		M9PW		●	●	●	○	—	○					
	2-wire			12 V				M9BWV		M9BW		●	●	●	○	—	○	—					
	3-wire (NPN)			5 V, 12 V				M9NAV		M9NA		○	○	●	○	—	○			IC circuit			
	3-wire (PNP)			5 V, 12 V				M9PAV		M9PA		○	○	●	○	—	○						
	2-wire			12 V				M9BAV		M9BA		○	○	●	○	—	○	—					
	Diagnostic output (2-color indication)	4-wire		5 V, 12 V				—		F79F		●	—	●	○	—	○	IC circuit					
	Magnetic field resistant (2-color indication)	2-wire (No polarity)		—				—		P4DW		—	—	●	●	—	○	—					
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	—	5V	—	A96V		A96		●	—	●	—	—	—	IC circuit	Relay, PLC			
									—		A72		—	A72H	●	—	●	—			—	—	
	Connector	Yes		2-wire					12 V	100 V	A93V		A93		●	—	●	—	—		—	—	
									5 V, 12 V	100 V or less	A90V		A90		●	—	●	—	—		—		
	No	No		12 V					—	—		A73C		—		●	—	●	●		●	—	—
				5 V, 12 V					24 V or less	—		A80C		—		●	—	●	●		●	—	
	Diagnostic indication	Grommet		Yes					—	—	—		A79W		—		●	—	●		—	—	—
									—	—	—		—		●	—	●	—	—		—	—	

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NV  
1 m ..... M (Example) M9NWM  
3 m ..... L (Example) M9NWL  
5 m ..... Z (Example) M9NWX  
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).