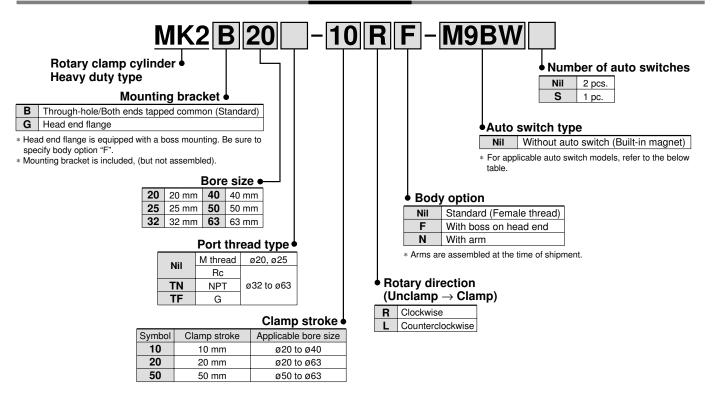
Rotary Clamp Cylinder: Heavy Duty Type

Series MK2 ø20, ø25, ø32, ø40, ø50, ø63

How to Order



Applicable Auto Switches/Refer to page 29 through to 39 for further information on auto switches.

		Electrical	ight	147	Load voltage		Auto switch model		Lead wire length (m)				(m)	Des min 1	A I:													
Туре	Type Special function		Indicator light	Wiring (Output)	DC AC		Perpendicular	In-line ø20 to ø32 ø40 to ø63		0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)	Pre-wired connector	Applicable load												
		Grommet Connector		3-wire (NPN)	- I ' I		M9NV	MS	9N	• -	•	0	Ι	0														
				3-wire (PNP)		12 V		M9PV	M9P	•	_	•	0	_	0	IC circuit												
				2-wire		12 V		M9BV	MS	9B	•	_	•	0	-	0												
switch								J79C	_		•	_	• •	•	_	_												
Š	Diagnostic indication (2-color indication) Water resistant (2-color indication)			3-wire (NPN)				M9NWV	M91	NW	•	•	•	0	_	0	IC circuit											
te 8				3-wire (PNP)	24 V	12 V	12 V 5 V, 12 V	M9PWV	M91	PW	•	•		0	<u> — </u>	0	io dicuit	Relay,										
state				2-wire		12 V		M9BWV	M91	BW	•	•	•	0	_	0	_	PLC										
Solid		Grommet	t	3-wire (NPN)) 1	5 V,		M9NAV	M9	NA	0	0		0	<u> </u>	0	IC circuit											
So				3-wire (PNP)		12 V		M9PAV	M9	PA	0 0 0 0 -	0	io circuit															
	,			2-wire		12 V		M9BAV	M9		0	0	•	0	<u> </u>	0	_											
	Diagnostic output (2-color indication)																		4-wire	4-wire 5 V, 12 V — F79F	•	_		0	<u> </u>	0	IC circuit	
	Magnetic field resistant (2-color indication)				2-wire (No polarity))	_		_	_	P4DW	_	_		•	<u> </u>	0	_										
Reed switch	Connec	Grommet	No	No Yes 2-wire	_	5 V	_	A96V	AS	96	•	-	•	_	_	_	IC circuit	_										
						_	200 V	A72	A7	2H	•	_		_	-	_												
					24 V	12 V	100 V	A93V	AS	93		_	•	_	-	_	_											
						5 V, 12 V	100 V or less	A90V	A9	90	•	_		_	—	_	IC circuit	Relay,										
		Connector	Yes			12 V	_	A73C	_			-	•	•	•	_	_	PLC										
			No			5 V, 12 V	24 V or less	A80C	_	-	•	_	•	•	•	_	IC circuit											
	Diagnostic indication (2-color indication)	Grommet	Yes	;		-	_	A79W	_	_		-		—	—	_	_											

- \ast Lead wire length symbols: 0.5 m $\cdots\cdots\cdots$ Nil (Example) M9NW 1 m M
 - (Example) M9NWM 3 m L (Example) M9NWL 5 m Z (Example) M9NWZ None ········ N (Example) J79CN
- * Solid state switches marked with "O" 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."

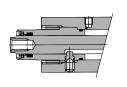
* Auto switches are included, (but not assembled).

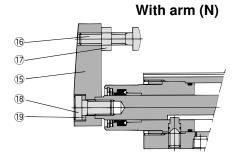


Series MK2

Construction

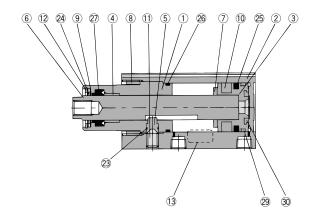
MK2□20, 25

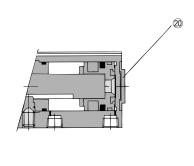




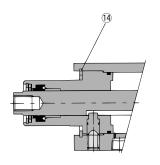
MK2**□32**

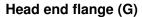
With boss on head end (F)

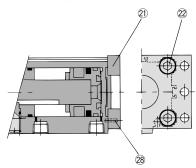




MK2□40 to 63







Component Parts

Description	Material	Note							
Rod cover	Aluminum alloy								
Cylinder tube	Aluminum alloy								
Piston	Aluminum alloy								
Bushing	Copper bearing material	ø32 to ø63 only							
Guide pin	Stainless steel	Nitrided							
Dioton rod	Stainless steel	ø20, ø25 Nitrided							
Piston rou	Carbon steel	ø32 to ø63 Heated, Nickel plated							
Bumper	Urethane								
Ring nut	Copper alloy	ø20 to ø32 only							
Scraper pressure	Stainless steel								
Magnet	_								
Hexagon socket head set screw	Chromium molybdenum steel	Sharp end section: 90°							
Round R-type retaining ring	Spring steel								
Name plate	Aluminum								
C-type retaining ring	Carbon tool steel	ø40 to ø63 only							
Arm	Rolled steel								
	Description Rod cover Cylinder tube Piston Bushing Guide pin Piston rod Bumper Ring nut Scraper pressure Magnet Hexagon socket head set screw Round R-type retaining ring Name plate C-type retaining ring	Description Material Rod cover Aluminum alloy Cylinder tube Aluminum alloy Piston Aluminum alloy Bushing Copper bearing material Guide pin Stainless steel Piston rod Carbon steel Bumper Urethane Ring nut Copper alloy Scraper pressure Stainless steel Magnet — Hexagon socket head set screw Chromium molybdenum steel Round R-type retaining ring Spring steel Name plate Aluminum C-type retaining ring Carbon tool steel							

Component Parts

Component i arts									
No.	Description	Material		Note					
16	Clamp bolt	Chromium molybdenum steel							
17	Hexagon nut	Rolled steel							
18	Hexagon socket head cap screw	Chromium molybdenum steel							
19	Spring washer	Hard steel							
20	Centering location ring	Aluminum alloy							
21	Flange	Rolled steel							
22	Hexagon socket	Chromium molybdenum steel	Qty.	ø20, ø25: 2					
22	head cap screw			ø32 to ø63: 4					
23	O-ring	NBR							
24	Coil scraper	Phosphor bronze							
25	Piston seal	NBR							
26	Gasket	NBR							
27	Rod seal	NBR							
28	Parallel pin	Stainless steel							
29	Wear ring	Resin							
30	Bumper B	Urethane							

Replacement Parts: Seal Kit

Bore size (mm)	20	25 32		40	50	63	
Kit no.	Not	able to disasser	mble	MK2-40-PS	MK2-50-PS	MK2-63-PS	
Content		23 24 25 26 2	7				

^{*} Seal kit includes $\ \mathfrak{D}$ to $\ \mathfrak{D}$. Order the seal kit, based on each bore size.

