

Compact Guide Cylinder

Series *MGP*

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order

Compact Guide Cylinder **MGP** **M** **25** **30** **Z** **M9BW**

Compact Guide Cylinder

Bearing type

M	Slide bearing
L	Ball bushing
A	High precision ball bushing

Bore size

12	12 mm	40	40 mm
16	16 mm	50	50 mm
20	20 mm	63	63 mm
25	25 mm	80	80 mm
32	32 mm	100	100 mm

Port thread type

Nil	M5 x 0.8
TN	NPT
TF	G

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	n pcs.

Auto switch

Nil	Without auto switch (Built-in magnet)
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Cylinder stroke (mm)
Refer to "Standard Strokes" on page 4.

* For bore sizes with ø12 and ø16, only M5 x 0.8 is available.

Applicable Auto Switches/Refer to pages 1719 to 1827 in Best Pneumatics No. 3 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)				
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC	
	3-wire (PNP)			M9PV			M9P	●	●	●	○	○				
	2-wire			12 V	M9BV		M9B	●	●	●	○	○	—			
	3-wire (NPN)			5 V, 12 V	M9NWV		M9NW	●	●	●	○	○	IC circuit			
	3-wire (PNP)				M9PWV		M9PW	●	●	●	○	○				
	2-wire			12 V	M9BWV		M9BW	●	●	●	○	○	—			
	3-wire (NPN)			5 V, 12 V	M9NAV***		M9NA***	○	○	●	○	○	IC circuit			
	3-wire (PNP)				M9PAV***		M9PA***	○	○	●	○	○				
	2-wire			12 V	M9BAV***		M9BA***	○	○	●	○	○	—			
	2-wire (Non-polar)			—	—		P3DW**	●	—	●	●	○				
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	●	—	●	—	—	IC circuit	—
				2-wire	24 V	12 V	100 V	A93V	A93	●	—	●	●	—	—	—
			100 V or less			A90V	A90	●	—	●	—	—	—	IC circuit		

***Water-resistant type auto switch can be mounted to the models with the above mentioned part numbers, but this does not guarantee the water resistance of the cylinder. A water-resistant type cylinder is recommended for use in an environment which requires water resistance. However, please contact SMC for water-resistant products of ø12 and ø16.

* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWX

* Solid state auto switches marked with "○" are produced upon receipt of order.
** Bore sizes ø25 to ø100 are available for the D-P3DW.

* Since there are other applicable auto switches than listed, refer to page 22 for details.

* For details about auto switches with pre-wired connector, refer to pages 1784 and 1785 in Best Pneumatics No. 3.

For D-P3DW□, refer to the catalog CAT. ES20-201.

* Auto switches are shipped together, (but not assembled).