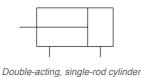


MGP-Z, Compact Guide Cylinder MGPL32TF-150Z

Datasheet

At SMC we have 'rolled' out an upgrade of our MGP Series guide cylinder, which is now smaller and boasts new features. The new MGP-Z is testament to our commitment to invest in ongoing research and development to refine and improve the performance and functionality of SMC products. The MGP-Z is up to 17% lighter and offers space savings thanks to shorter guide rods, without impacting on the variety of functions, robustness and quality performance of the original series. Another recent key development feature is that round auto switches can now be fitted directly onto the MGP-Z cylinder, removing the need for mounting brackets and reducing labour costs. The common issue of incorrectly positioned auto switches is also mitigated when using SMC's two colour indication solid state auto switch, D-M9*W. The MGP-Z has many standard feature options including three types of bearings, four mount designs, piping from two directions and offers cooper and fluorine free versions. Suitable for many industries including General Automation and Car, it has several applications including smooth pusher and lifter, lateral load by acting as a stopper where shock is applied, or minimising plate displacement.



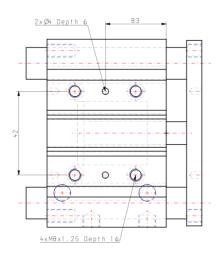
Standard specifications

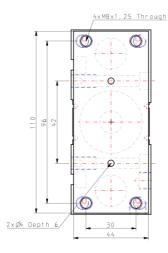
L (Ball Bushing Bearing)
Ø32 mm
TF [G]
Without Stable Lubrication Function
150
No Switch
0.5m [Or None in the Case of No Switch]
2 pcs. [Or None in Case of No Switch]
None

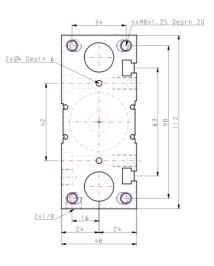
specifications are subject to change without prior notice and any obligation on the part of the manufacturer

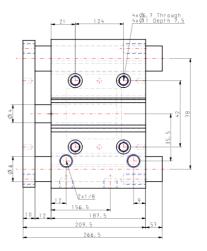
Pressure medium	Compressed air
Maximum temperature of pressure medium	60 °C
Minimum temperature of pressure medium	-10 °C (No freezing)
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0.1 MPa
Proof pressure	1.5 MPa
Maximum ambient temperature	60 °C
Minimum ambient temperature	-10 °C (No freezing)
Numbero of pneumatic connections	4 pcs.
Pneumatic input connection	G 1/8
Pneumatic exhaust connection	G 1/8
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	402 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	325 N
Maximum piston speed	500 mm/s
Type of cushioning	Rubber bumper on both ends
Non-rotating accuracy of plate	± 0.03 °
Weight	3.179 Kg

Dimensions



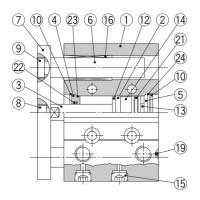


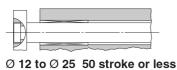




Constructions

MGPM12 to 25



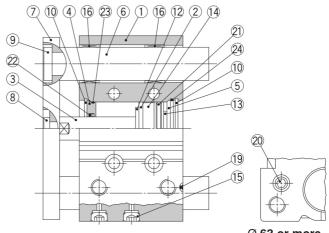




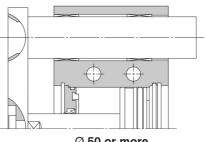


 \emptyset 12 to \emptyset 25 Over 50 stroke

MGPM32 to 100



Ø 63 or more



Ø 50 or more

Component Parts

No.	Description	Material	Note		
1	Body	Aluminium alloy	Hard anodised		
2	Piston	Aluminium alloy			
3	Piston rod	Stainless steel	Ø 12 to Ø 25		
		Carbon steel	Ø 32 to Ø 100	Hard chrome plating	
4	Collar	Aluminium alloy	Chromated		
5	Head cover	Aluminium alloy	Ø 12 to Ø 63	Chromated	
			Ø 80, Ø 100	Painted	
6	Guide rod	Carbon steel	Hard chrome plating		
7	Plate	Carbon steel	Nickel plating		
8	Plate mounting bolt	Carbon steel	Nickel plating		
9	Guide bolt	Carbon steel	Nickel plating		
10	Retaining ring	Carbon tool steel	Phosphate coated		
11	Retaining ring	Carbon tool steel	Phosphate coated		
12	Bumper A	Urethane			
13	Bumper B	Urethane			
14	Magnet	_			
15	Plug	Carbon steel	Ø 12, Ø 16	Niekel plating	
	Hexagon socket head plug	Carbon steel	Ø 20 to Ø 100	Nickel plating	
16	Slide bearing	Bearing alloy			

*: A felt is not installed on the slide bearing.

Component Parts

No.	Description	Material	Note			
17	Ball bushing					
18	Spacer	Aluminium alloy				
19	Steel ball	Carbon steel	Ø 12 to Ø 50			
20	Plug	Carbon steel	Ø 63 to Ø 100	Nickel plating		
21 *	Piston seal	NBR				
22 *	Rod seal	NBR				
23 *	Gasket A	NBR				
24 *	Gasket B	NBR				

Replacement Parts/Seal Kit

Bore size [mm]	Kit no.	Contents	Bore size [mm]	Kit no.	Contents	
12	MGP12-Z-PS	Set of	40	MGP40-Z-PS	Set of	
16	MGP16-Z-PS	nos.	50	MGP50-Z-PS	nos.	
20	MGP20-Z-PS	above	63	MGP63-Z-PS	above	
25	MGP25-Z-PS	21, 22,	80	MGP80-Z-PS	21, 22,	
32	MGP32-Z-PS	23, 24	100	MGP100-Z-PS	23, 24	

*: Seal kit includes 0 to 0 . Order the seal kit, based on each bore size. *: Since the seal kit does not include a grease pack, order it separately. Grease pack part number: GR-S-010 (10 g)

Additional information

Catalogue

MGP-Z-Dd_EU.pdf