Hinge cylinder
DWA-63-100-Y-A

Part number: 549570



General operating condition

Data sheet

Feature	Value
Stroke	100 mm
Piston diameter	63 mm
Piston rod thread	M16x1.5
Broad rod clevis/swivel mounting	16 mm
Cushioning	Pneumatic cushioning, adjustable at both ends
Mounting position	optional
Design	Piston Piston rod with rod clevis Swivel mounting on bearing cap Cylinder barrel
Speed regulation	Integrated flow control at both ends
Position detection	Via proximity switch
Piston-rod end	Male thread with rod clevis
Operating pressure	1 bar ... 10 bar
Mode of operation	Double-acting
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature	-10 °C ... 60 °C
Impact energy in end positions	1.3 J
Cushioning length	20 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	1682 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1870 N
Moving mass for 0 mm stroke	741 g
Additional moving mass per 10 mm stroke	25 g
Basic weight for 0 mm stroke	1600 g
Additional weight per 10 mm stroke	42 g
alternative connections	See product drawing
Type of mounting	Via swivel mounting on bearing cap With accessories
Pneumatic connection	Rc1/4
Material rod clevis	Cast steel Tempered steel
Note on materials	RoHS-compliant
Material wiper	Bronze

Feature	Value
Material cover	Die-cast aluminium Anodised
Material seals	NBR
Material piston rod	Tempered steel Hard-chrome-plated
Material cylinder barrel	Wrought aluminium alloy Anodised