

# Hinge cylinder DW-80-100-Y

Part number: 557906

FESTO



## Data sheet

Feature	Value
Stroke	100 mm
Piston diameter	80 mm
Piston rod thread	M20x1,5
Distance of rod clevis to swivel mounting	28 mm
Cushioning	PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Design structure	Piston Piston rod with rod clevis Swivel mounting on bearing cap Cylinder barrel
Speed regulation	Integrated flow control valves on both sides
Position detection	No
Piston-rod end	Male thread with rod clevis
Working pressure	1 ... 10 bar
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364-B2-L
Ambient temperature	-10 ... 60 °C
Impact energy in end positions	1.8 J
Cushioning length	30 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	2,721 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	3,016 N
Moving mass with 0 mm stroke	1,651 g
Additional mass factor per 10 mm of stroke	39 g
Basic weight for 0 mm stroke	4,185 g
Additional weight per 10 mm stroke	65 g
alternative connections	See product drawing
Mounting type	With swivel mounting on bearing cap with accessories
Pneumatic connection	Rc3/8
Material rod clevis	Cast steel Heat-treatment steel
Materials note	Conforms to RoHS
Material wiper seal	Bronze
Material cover	Aluminum die cast Anodized
Material seals	NBR
Material piston rod	Heat-treatment steel hard-chromium plated
Material cylinder barrel	Wrought Aluminum alloy Anodized