

# Hinge cylinder DWB-50-100-Y-AB

Part number: 549709

FESTO



## Data sheet

Feature	Value
Stroke	100 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5
Distance of rod clevis to swivel mounting	19.5 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	For proximity sensor
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	0.7 J
Cushioning length	20 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	990 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass with 0 mm stroke	664 g
Additional mass factor per 10 mm of stroke	25 g
Basic weight for 0 mm stroke	1,338 g
Additional weight per 10 mm stroke	37 g
alternative connections	See product drawing
Mounting type	With swivel mounting on bearing cap with accessories
Pneumatic connection	Rc1/4
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