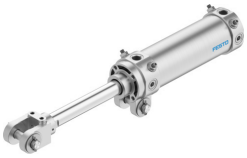
# Hinge cylinder
# DWB-50-100-Y

Part number: 549555



General operating condition

## Data sheet

| Feature | Value |
|---|---|
| Stroke | 100 mm |
| Piston diameter | 50 mm |
| Piston rod thread | M16x1.5 |
| Broad rod clevis/swivel mounting | 19.5 mm |
| Cushioning | Pneumatic cushioning, adjustable at both ends |
| Mounting position | optional |
| Design | Piston<br>Piston rod with rod clevis<br>Swivel mounting on bearing cap<br>Cylinder barrel |
| Speed regulation | Integrated flow control at both ends |
| Position detection | Without |
| 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 | 0.7 J |
| Cushioning length | 20 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 990 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N |
| Moving mass for 0 mm stroke | 664 g |
| Additional moving mass per 10 mm stroke | 25 g |
| Basic weight for 0 mm stroke | 1338 g |
| Additional weight per 10 mm stroke | 37 g |
| alternative connections | See product drawing |
| Type of mounting | Via swivel mounting on bearing cap<br>With accessories |
| Pneumatic connection | Rc1/4 |
| Material rod clevis | Cast steel<br>Tempered steel |
| Note on materials | RoHS-compliant |
| Material wiper | Bronze |

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