

# hinge cylinder DWC-50-150-Y-AB

Part number: 558101

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 150 mm  |
| Piston diameter  | 50 mm   |
| Piston rod thread  | M16x1,5   |
| Distance of rod clevis to swivel mounting                | 16.5 mm   |
| Cushioning   | PPV: Pneumatic cushioning adjustable at both ends   |
| Assembly position  | Any   |
| Design structure   | Piston<br>Piston rod with rod clevis<br>Swivel mounting on bearing cap<br>Cylinder barrel |
| Speed regulation   | Integrated flow control valves on both sides  |
| Position detection                                       | For proximity sensor  |
| Piston-rod end   | Male thread with rod clevis   |
| Operating 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<br>with accessories                                   |
| Pneumatic connection                                     | Rc1/4   |
| Material rod clevis                                      | Cast steel<br>Heat-treatment steel  |
| Materials note   | Conforms to RoHS  |
| Material wiper seal                                      | Bronze  |
| Material cover   | Aluminium die cast<br>Anodised  |
| Material seals   | NBR   |
| Material piston rod                                      | Heat-treatment steel<br>hard-chromium plated  |
| Material cylinder barrel                                 | Wrought Aluminium alloy<br>Anodised   |