

# Flat cylinder DZH-40- -PPV-A

Part number: 14051

FESTO



[PDF](#) General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature  | Value  |
|--|--|
| Stroke   | 1 mm ... 1000 mm   |
| Piston diameter  | 40 mm<br>Equivalent diameter   |
| Piston rod thread  | M12x1.25   |
| Torsional backlash at piston rod +/-                         | 1.4 deg  |
| Cushioning   | Pneumatic cushioning, adjustable at both ends  |
| Mounting position  | Any  |
| Mode of operation  | Double-acting  |
| Design   | Piston<br>Piston rod   |
| Position detection   | Via proximity switch   |
| Symbol   | 00991235   |
| Variants   | Piston rod at one end  |
| Protection against torque/guide                              | Oval piston  |
| Operating pressure   | 0.06 MPa ... 1 MPa   |
| Operating pressure   | 0.6 bar ... 10 bar   |
| 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                               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L   |
| Ambient temperature  | -20 °C ... 80 °C   |
| Cushioning length  | 21 mm  |
| Max. torque for protection against torsion                   | 1.2 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 633 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 754 N  |
| Moving mass for 0 mm stroke                                  | 236 g  |
| Additional moving mass per 10 mm stroke                      | 15.8 g   |
| Additional weight per 10 mm stroke                           | 37 g   |
| Basic weight for 0 mm stroke                                 | 836 g  |
| Type of mounting   | With female thread<br>With accessories   |
| Pneumatic connection   | G1/4   |
| Note on materials  | RoHS compliant   |
| Material cover   | Aluminium  |

| <b>Feature</b>       | <b>Value</b>     |
|----------------------|------------------|
| Material seals       | TPE-U(PU)        |
| Material housing     | Aluminium        |
| Material piston seal | TPE-U(PU)        |
| Material piston rod  | High-alloy steel |