

# Flat cylinder DZH-50-250-PPV-A

Part number: 14071

**FESTO**



## Data sheet

| Feature                                      | Value                                                              |
|----------------------------------------------|--------------------------------------------------------------------|
| Stroke                                       | 250 mm                                                             |
| Piston diameter                              | 50 mm<br>Equivalent diameter                                       |
| Piston rod thread                            | M16x1.5                                                            |
| Max. angle of rotation of the piston rod +/- | 0.75 deg                                                           |
| Cushioning                                   | Pneumatic cushioning, adjustable at both ends                      |
| Mounting position                            | Any                                                                |
| Mode of operation                            | Double-acting                                                      |
| Structural design                            | Piston<br>Piston rod                                               |
| Position sensing                             | Via proximity switch                                               |
| Variants                                     | Piston rod at one end                                              |
| Protection against torsion/guide             | Oval piston                                                        |
| Operating pressure                           | 0.06 MPa...1 MPa<br>0.6 bar...10 bar                               |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media     | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)             | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                       | VDMA24364-B2-L                                                     |
| Ambient temperature                          | -20 °C...80 °C                                                     |
| Cushioning length                            | 23 mm                                                              |
| Max. torque for protection against rotation  | 1.7 Nm                                                             |
| Theoretical force at 6 bar, retracting       | 989 N                                                              |
| Theoretical force at 6 bar, advancing        | 1178 N                                                             |
| Moving mass                                  | 1036 g                                                             |
| Product weight                               | 2571 g                                                             |
| Additional weight per 10 mm stroke           | 52.3 g                                                             |
| Basic weight with 0 mm stroke                | 1263 g                                                             |
| Type of mounting                             | Alternatively:<br>With internal thread<br>With accessories         |
| Pneumatic connection                         | G1/4                                                               |
| Note on materials                            | RoHS compliant                                                     |

| Feature              | Value            |
|----------------------|------------------|
| Cover material       | Aluminum         |
| Seals material       | TPE-U(PU)        |
| Housing material     | Aluminum         |
| Piston seal material | TPE-U(PU)        |
| Piston rod material  | High-alloy steel |