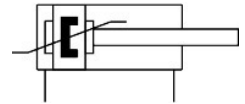


# ISO cylinder DSBG-50-50-PPSA-N3

Part number: 1646725

FESTO



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 50 mm                                                              |
| Piston diameter                          | 50 mm                                                              |
| Piston rod thread                        | M16x1.5                                                            |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                   |
| Mounting position                        | Any                                                                |
| Conforms to standard                     | ISO 15552                                                          |
| Piston rod end                           | External thread                                                    |
| Structural design                        | Piston<br>Piston rod<br>Tie rod<br>Cylinder barrel                 |
| Position sensing                         | For proximity sensor                                               |
| Variants                                 | Piston rod at one end                                              |
| Operating pressure                       | 0.04 MPa...1.2 MPa<br>0.4 bar...12 bar                             |
| Mode of operation                        | Double-acting                                                      |
| 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-B1/B2-L                                                  |
| Cleanroom class                          | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                      | -20 °C...80 °C                                                     |
| Impact energy in the end positions       | 1 J                                                                |
| Cushioning length                        | 22 mm                                                              |
| Theoretical force at 6 bar, retracting   | 990 N                                                              |
| Theoretical force at 6 bar, advancing    | 1178 N                                                             |
| Moving mass                              | 490 g                                                              |
| Moving mass at 0 mm stroke               | 365 g                                                              |
| Additional moving mass per 10 mm stroke  | 25 g                                                               |
| Product weight                           | 1450 g                                                             |
| Basic weight with 0 mm stroke            | 1190 g                                                             |
| Additional weight per 10 mm stroke       | 52 g                                                               |

| Feature                     | Value                                                   |
|-----------------------------|---------------------------------------------------------|
| Type of mounting            | With internal thread<br>With accessories<br>Optionally: |
| Pneumatic connection        | G1/4                                                    |
| Note on materials           | RoHS-compliant                                          |
| Cover material              | Die-cast aluminum, coated                               |
| Piston seal material        | TPE-U(PU)                                               |
| Material of piston          | Wrought aluminum alloy                                  |
| Piston rod material         | High-alloy steel                                        |
| Piston rod wiper material   | TPE-U(PU)                                               |
| Buffer seal material        | TPE-U(PU)                                               |
| Cushion piston material     | POM                                                     |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized                 |
| Nut material                | Steel, galvanized                                       |
| Material of bearing         | POM                                                     |
| Collar nut material         | Steel, galvanized                                       |
| Tie rod material            | High-alloy steel                                        |