

# ISO cylinder DSBG-40-25-PPSA-N3

Part number: 1646559

FESTO



[PDF](#) [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Stroke  | 25 mm  |
| Piston diameter   | 40 mm  |
| Piston rod thread   | M12x1.25   |
| 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 1<br>Cylinder barrel               |
| Position sensing  | Via proximity switch   |
| Symbol  | 00992970   |
| Variants  | Piston rod at one end  |
| Operating pressure  | 0.06 MPa ... 1.2 MPa   |
| Operating pressure  | 0.6 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 suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1                                   |
| Ambient temperature                                       | -20 °C ... 80 °C   |
| Impact energy in the end positions                        | 0.7 J  |
| Cushioning length   | 19 mm  |
| Theoretical force at 6 bar, retracting                    | 633 N  |
| Theoretical force at 6 bar, advancing                     | 754 N  |
| Moving mass   | 245 g  |
| Moving mass at 0 mm stroke                                | 205 g  |
| Additional moving mass per 10 mm stroke                   | 16 g   |
| Product weight  | 828 g  |
| Basic weight with 0 mm stroke                             | 740 g  |
| Additional weight per 10 mm stroke                        | 35 g   |
| Type of mounting  | With internal thread<br>With accessories                           |
| Pneumatic connection                                      | G1/4   |
| Note on materials   | RoHS compliant   |

| <b>Feature</b>              | <b>Value</b>                            |
|-----------------------------|---|
| 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         | Galvanized steel                        |
| Tie rod material            | High-alloy steel                        |