

# ISO cylinder DSBG-125-500-PPSA-N3

Part number: 2159919

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 500 mm   |
| Piston diameter                          | 125 mm   |
| Piston rod thread                        | M27x2  |
| 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   |
| Symbol                                   | 00992970   |
| Variants                                 | Piston rod at one end  |
| Operating pressure                       | 0.02 MPa ... 1 MPa   |
| Operating pressure                       | 0.2 bar ... 10 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  |
| Ambient temperature                      | -20 °C ... 80 °C   |
| Impact energy in the end positions       | 2.5 J  |
| Cushioning length                        | 45 mm  |
| Theoretical force at 6 bar, retracting   | 6881 N   |
| Theoretical force at 6 bar, advancing    | 7363 N   |
| Moving mass                              | 5395 g   |
| Moving mass at 0 mm stroke               | 2245 g   |
| Additional moving mass per 10 mm stroke  | 63 g   |
| Product weight                           | 13761 g  |
| Basic weight with 0 mm stroke            | 6611 g   |
| Additional weight per 10 mm stroke       | 143 g  |
| Type of mounting                         | With internal thread<br>With accessories                           |
| Pneumatic connection                     | G1/2   |
| Note on materials                        | RoHS-compliant   |
| Cover material                           | Die-cast aluminum, coated  |

| <b>Feature</b>              | <b>Value</b>                            |
|-----------------------------|---|
| 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                        |