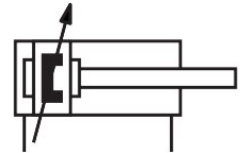


# Standards-based cylinder DSBC-125-50-D3-PPVA-N3

Part number: 8165680

FESTO



 General operating condition

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 50 mm                                                                                      |
| Piston diameter                                              | 125 mm                                                                                     |
| Piston rod thread                                            | M27x2                                                                                      |
| Cushioning                                                   | Pneumatic cushioning, adjustable at both ends                                              |
| Mounting position                                            | optional                                                                                   |
| Conforms to standard                                         | ISO 15552                                                                                  |
| Piston-rod end                                               | Male thread                                                                                |
| Design                                                       | Piston<br>Piston rod<br>Profile barrel                                                     |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991235                                                                                   |
| 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 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-B1/B2-L                                                                          |
| Ambient temperature                                          | -20 °C ... 80 °C                                                                           |
| Impact energy in end positions                               | 3.3 J                                                                                      |
| Cushioning length                                            | 45 mm                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 6881 N                                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 7363 N                                                                                     |
| Moving mass                                                  | 2560 g                                                                                     |
| Moving mass for 0 mm stroke                                  | 2245 g                                                                                     |
| Additional moving mass per 10 mm stroke                      | 63 g                                                                                       |
| Product weight                                               | 8002 g                                                                                     |
| Basic weight for 0 mm stroke                                 | 6768 g                                                                                     |
| Additional weight per 10 mm stroke                           | 247 g                                                                                      |
| Type of mounting                                             | Via female thread<br>With accessories                                                      |
| Pneumatic connection                                         | G1/2                                                                                       |
| Note on materials                                            | RoHS-compliant                                                                             |

| Feature                     | Value                                   |
|-----------------------------|-----------------------------------------|
| Material cover              | Coated die-cast aluminium               |
| Material piston seal        | TPE-U(PU)                               |
| Material piston             | Wrought aluminium alloy                 |
| Material piston rod         | High-alloy steel                        |
| Material piston rod wiper   | TPE-U(PU)                               |
| Buffer seal material        | TPE-U(PU)                               |
| Material of cushioning boss | POM                                     |
| Material cylinder barrel    | Smooth-anodised wrought aluminium alloy |
| Material nut                | Galvanised steel                        |
| Material rod wiper          | TPE-E                                   |
| Material bearing            | Metal polymer compound                  |
| Material collar screws      | Galvanised steel                        |