

# Standards-based cylinder DSBC-125-500-D3-PPSA-N3

Part number: 8165681

**FESTO**



## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 500 mm   |
| Piston diameter  | 125 mm   |
| Piston rod thread  | M27x2  |
| Cushioning   | Self-adjusting pneumatic end-position cushioning   |
| 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   |
| Variants   | Piston rod at one end  |
| Operating pressure   | 0.02 MPa...1 MPa<br>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  | 5395 g   |
| Moving mass for 0 mm stroke                                  | 2245 g   |
| Additional moving mass per 10 mm stroke                      | 63 g   |
| Product weight   | 19117 g  |
| Basic weight for 0 mm stroke                                 | 6768 g   |
| Additional weight per 10 mm stroke                           | 247 g  |

| Feature                   | Value  |
|---------------------------|--|
| Type of mounting          | Via female thread<br>With accessories<br>Either: |
| Pneumatic connection      | G1/2   |
| Note on materials         | RoHS-compliant                                   |
| Material cover            | Die-cast aluminium, coated                       |
| 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)  |
| Cushioning boss material  | 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                                 |