

# Standards-based cylinder DSBC-125-400-D3-PPSA-N3

Part number: 8165677

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 400 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   | Male thread  |
| Design   | Piston<br>Piston rod<br>Profile barrel   |
| Position detection   | Via proximity switch   |
| 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 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  | 4765 g   |
| Moving mass for 0 mm stroke                                  | 2245 g   |
| Additional moving mass per 10 mm stroke                      | 63 g   |
| Product weight   | 16647 g  |
| Basic weight for 0 mm stroke                                 | 6768 g   |
| Additional weight per 10 mm stroke                           | 247 g  |
| Type of mounting   | With female thread<br>With accessories   |
| Pneumatic connection   | G1/2   |
| Note on materials  | RoHS compliant   |
| Material cover   | Coated die-cast aluminium  |

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