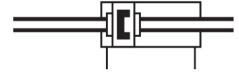



# ISO cylinder DSBF-C-...-125- -

Part number: 1755169

FESTO



 [General operating condition](#)

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                            | Value  |
|------------------------------------|--|
| Stroke                             | 1 mm ... 2800 mm   |
| Piston diameter                    | 125 mm   |
| Piston rod thread                  | M27x2<br>M16   |
| Based on standard                  | ISO 15552  |
| Cushioning                         | Elastic cushioning rings/plates at both ends<br>Self-adjusting pneumatic end-position cushioning<br>Pneumatic cushioning, adjustable at both ends  |
| Mounting position                  | optional   |
| Conforms to standard               | ISO 15552  |
| Piston-rod end                     | Male thread<br>Female thread   |
| Design                             | Piston<br>Piston rod<br>Profile barrel   |
| Position detection                 | Via proximity switch   |
| Symbol                             | 00991217<br>00991218<br>00991235<br>00991237<br>00992970<br>00992971   |
| Variants                           | For unlubricated operation<br>Increased chemical resistance<br>Hard scraper<br>Extended male piston rod thread<br>Piston rod with female thread<br>Extended piston rod<br>Uniform, slow movement<br>Through piston rod<br>Heat-resistant seals max. 120°C<br>Temperature range 0 to 150°C<br>Temperature range -40 to 80°C |
| Operating pressure                 | 0.005 MPa ... 1 MPa  |
| Operating pressure                 | 0.05 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     | 3 - high corrosion stress  |

| Feature  | Value  |
|--|--|
| LABS (PWIS) conformity                                       | VDMA24364-B2-L<br>VDMA24364 zone III   |
| Suitable for use with food                                   | See supplementary material information                                       |
| Ambient temperature  | -40 °C ... 150 °C  |
| Impact energy in end positions                               | 1.65 J ... 3.3 J   |
| Cushioning length  | 44 mm ... 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 | 6681 N ... 7363 N  |
| Additional weight per piston rod extension of 10 mm          | 63 g   |
| Additional weight per piston rod thread extension of 10 mm   | 41 g   |
| Type of mounting   | Either:<br>Via female thread<br>With accessories                             |
| Pneumatic connection   | G1/2   |
| Note on materials  | RoHS-compliant   |
| Material cover   | Coated die-cast aluminium  |
| Material piston seal   | FPM<br>TPE-U(PU)   |
| Material piston  | Wrought aluminium alloy  |
| Material piston rod  | High-alloy stainless steel, hard chrome-plated<br>High-alloy stainless steel |
| Material piston rod wiper                                    | FPM<br>PE<br>TPE-U(PU)   |
| Buffer seal material   | FPM<br>TPE-U(PU)   |
| Cushioning boss material                                     | Aluminium<br>POM   |
| Material cylinder barrel                                     | Anodised wrought aluminium alloy   |
| Material nut   | High-alloy stainless steel   |
| Material rod wiper   | PTFE reinforced  |
| Material bearing   | Bronze   |
| Material collar screws                                       | Galvanised steel   |