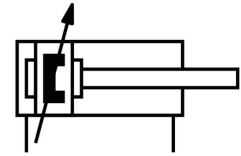


# ISO cylinder DSBF-C-80-320-PPVA-N3-R

Part number: 1778438

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 320 mm   |
| Piston diameter                          | 80 mm  |
| Piston rod thread                        | M20x1.5  |
| Cushioning                               | Pneumatic cushioning, adjustable at both ends                      |
| Mounting position                        | Any  |
| Conforms to standard                     | ISO 15552  |
| Piston rod end                           | External thread  |
| Structural design                        | Piston<br>Piston rod<br>Profile barrel                             |
| Position sensing                         | For proximity sensor   |
| Symbol                                   | 00991235   |
| Operating pressure                       | 0.04 MPa ... 1.2 MPa   |
| Operating pressure                       | 0.4 bar ... 12 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)         | 3 - High corrosion stress  |
| LABS (PWIS) conformity                   | VDMA24364-B2-L   |
| Ambient temperature                      | -20 °C ... 80 °C   |
| Impact energy in the end positions       | 1.8 J  |
| Cushioning length                        | 31 mm  |
| Theoretical force at 6 bar, retracting   | 2721 N   |
| Theoretical force at 6 bar, advancing    | 3016 N   |
| Moving mass                              | 2048 g   |
| Moving mass at 0 mm stroke               | 800 g  |
| Additional moving mass per 10 mm stroke  | 39 g   |
| Product weight                           | 6171 g   |
| Basic weight with 0 mm stroke            | 3131 g   |
| Additional weight per 10 mm stroke       | 95 g   |
| Type of mounting                         | Optionally:<br>With internal thread<br>With accessories            |
| Pneumatic connection                     | G3/8   |
| 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 stainless 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, anodized |
| Nut material                | High-alloy stainless steel       |
| Material of bearing         | POM                              |
| Flange screws material      | Steel, galvanized                |