

# Standards-based cylinder DSBC-100-320-D3-PPVA-N3

Part number: 8165655

**FESTO**



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 320 mm                                                             |
| Piston diameter                          | 100 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                         | Via proximity switch                                               |
| Variants                                 | Piston rod at one end                                              |
| Operating pressure                       | 0.04 MPa...1.2 MPa<br>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)         | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                  |
| Ambient temperature                      | -20 °C...80 °C                                                     |
| Impact energy in the end positions       | 2.5 J                                                              |
| Cushioning length                        | 31 mm                                                              |
| Theoretical force at 6 bar, retracting   | 4418 N                                                             |
| Theoretical force at 6 bar, advancing    | 4712 N                                                             |
| Moving mass                              | 2248 g                                                             |
| Moving mass at 0 mm stroke               | 1000 g                                                             |
| Additional moving mass per 10 mm stroke  | 39 g                                                               |
| Product weight                           | 9008 g                                                             |
| Basic weight with 0 mm stroke            | 3728 g                                                             |
| Additional weight per 10 mm stroke       | 152 g                                                              |
| Type of mounting                         | Alternatively:<br>With internal thread<br>With accessories         |

| Feature                     | Value                                   |
|-----------------------------|-----------------------------------------|
| Pneumatic connection        | G1/2                                    |
| Note on materials           | RoHS compliant                          |
| Cover material              | Die-cast aluminum, coated               |
| Piston seal material        | TPE-U(PU)                               |
| Material of piston          | Wrought aluminum alloy                  |
| Piston rod material         | High-alloy 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, smooth-anodized |
| Nut material                | Steel, galvanized                       |
| Rod wiper material          | TPE-E                                   |
| Material of bearing         | Metal polymer compound                  |
| Flange screws material      | Steel, galvanized                       |