

# ISO cylinder DSBF-C-50-320-PPSA-N3-R

Part number: 1780292

FESTO



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 320 mm                                                             |
| Piston diameter                          | 50 mm                                                              |
| Piston rod thread                        | M16x1.5                                                            |
| Type code                                | DSBF                                                               |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                   |
| 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                                   | 00992970                                                           |
| 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                                          |
| Ambient temperature                      | -20 °C ... 80 °C                                                   |
| Impact energy in the end positions       | 1 J                                                                |
| Cushioning length                        | 22 mm                                                              |
| Theoretical force at 6 bar, retracting   | 990 N                                                              |
| Theoretical force at 6 bar, advancing    | 1178 N                                                             |
| Moving mass at 0 mm stroke               | 363 g                                                              |
| Additional weight per 10 mm stroke       | 58 g                                                               |
| Basic weight with 0 mm stroke            | 1241 g                                                             |
| Additional moving mass per 10 mm stroke  | 25 g                                                               |
| Type of mounting                         | Optionally:<br>With internal thread<br>With accessories            |
| Pneumatic connection                     | G1/4                                                               |
| 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 stainless steel                                         |

| Feature                        | Value                            |
|--------------------------------|----------------------------------|
| Piston rod wiper seal 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                |