

# ISO cylinder DSBF-C-40-320-PPSA-N3-R

Part number: 1779440

**FESTO**



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 320 mm                                                             |
| Piston diameter                                           | 40 mm                                                              |
| Piston rod thread                                         | M12x1.25                                                           |
| 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                                          | Via proximity switch                                               |
| Operating pressure                                        | 0.06 MPa...1.2 MPa<br>0.6 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                                                     |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1                                   |
| Ambient temperature                                       | -20 °C...80 °C                                                     |
| Impact energy in the end positions                        | 0.7 J                                                              |
| Cushioning length                                         | 19 mm                                                              |
| Theoretical force at 6 bar, retracting                    | 633 N                                                              |
| Theoretical force at 6 bar, advancing                     | 754 N                                                              |
| Moving mass                                               | 716 g                                                              |
| Moving mass at 0 mm stroke                                | 204 g                                                              |
| Additional moving mass per 10 mm stroke                   | 16 g                                                               |
| Product weight                                            | 2058 g                                                             |
| Basic weight with 0 mm stroke                             | 778 g                                                              |
| Additional weight per 10 mm stroke                        | 40 g                                                               |
| Type of mounting                                          | Alternatively:<br>With internal thread<br>With accessories         |

| Feature                     | Value                            |
|-----------------------------|----------------------------------|
| 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       |
| 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                |