

# ISO cylinder DSBF-C-32-200-PPSA-N3-R

Part number: 1778841

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 200 mm                                                             |
| Piston diameter                                           | 32 mm                                                              |
| Piston rod thread                                         | M10x1.25                                                           |
| 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                                               |
| Symbol                                                    | 00992970                                                           |
| Operating pressure                                        | 0.06 MPa ... 1.2 MPa                                               |
| Operating pressure                                        | 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                        | 0.4 J                                                              |
| Cushioning length                                         | 17 mm                                                              |
| Theoretical force at 6 bar, retracting                    | 415 N                                                              |
| Theoretical force at 6 bar, advancing                     | 483 N                                                              |
| Moving mass                                               | 288 g                                                              |
| Moving mass at 0 mm stroke                                | 108 g                                                              |
| Additional moving mass per 10 mm stroke                   | 9 g                                                                |
| Product weight                                            | 1032 g                                                             |
| Basic weight with 0 mm stroke                             | 472 g                                                              |
| Additional weight per 10 mm stroke                        | 28 g                                                               |
| Type of mounting                                          | With internal thread<br>With accessories                           |
| Pneumatic connection                                      | G1/8                                                               |
| 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                |