

# ISO cylinder DSBC-50-70-PPSA-N3

Part number: 2102631

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 70 mm  |
| Piston diameter  | 50 mm  |
| Piston rod thread  | M16x1.5  |
| Cushioning   | Self-adjusting pneumatic end-position cushioning   |
| Mounting position  | optional   |
| Conforms to standard   | ISO 15552  |
| Piston-rod end   | Male thread  |
| Design   | Piston<br>Piston rod<br>Profile barrel   |
| Position detection   | Via proximity switch   |
| Symbol   | 00992970   |
| Variants   | Piston rod at one end  |
| Operating pressure   | 0.04 MPa ... 1.2 MPa   |
| Operating pressure   | 0.4 bar ... 12 bar   |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L  |
| Cleanroom class  | Class 6 according to ISO 14644-1   |
| Ambient temperature  | -20 °C ... 80 °C   |
| Impact energy in end positions                               | 1 J  |
| Cushioning length  | 22 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 990 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N   |
| Moving mass for 0 mm stroke                                  | 365 g  |
| Additional moving mass per 10 mm stroke                      | 25 g   |
| Basic weight for 0 mm stroke                                 | 1190 g   |
| Additional weight per 10 mm stroke                           | 56 g   |
| Type of mounting   | Either:<br>Via female thread<br>With accessories   |
| Pneumatic connection   | G1/4   |
| Note on materials  | RoHS-compliant   |
| Material cover   | Die-cast aluminium, coated   |

| <b>Feature</b>             | <b>Value</b>                            |
|----------------------------|---|
| Material piston seal       | TPE-U(PU)                               |
| Material piston            | Wrought aluminium alloy                 |
| Material piston rod        | High-alloy steel                        |
| Material piston rod wiper  | TPE-U(PU)                               |
| Buffer seal material       | TPE-U(PU)                               |
| Cushioning piston material | POM                                     |
| Material cylinder barrel   | Smooth-anodised wrought aluminium alloy |
| Material nut               | Galvanised steel                        |
| Material bearing           | POM                                     |
| Material collar screws     | Galvanised steel                        |