

# ISO cylinder DSNU-16-50-PPS-A

Part number: 559265

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 50 mm                                                              |
| Piston diameter                          | 16 mm                                                              |
| Piston rod thread                        | M6                                                                 |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning                   |
| Mounting position                        | Any                                                                |
| Conforms to standard                     | ISO 6432                                                           |
| Piston rod end                           | External thread                                                    |
| Structural design                        | Piston<br>Piston rod<br>Cylinder barrel                            |
| Position sensing                         | For proximity sensor                                               |
| Symbol                                   | 00992970                                                           |
| Variants                                 | Piston rod at one end                                              |
| Operating pressure                       | 0.1 MPa ... 1 MPa                                                  |
| Operating pressure                       | 1 bar ... 10 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                                                  |
| Cleanroom class                          | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                      | -20 °C ... 80 °C                                                   |
| Impact energy in the end positions       | 0.15 J                                                             |
| Cushioning length                        | 12 mm                                                              |
| Theoretical force at 6 bar, retracting   | 103.7 N                                                            |
| Theoretical force at 6 bar, advancing    | 120.6 N                                                            |
| Moving mass at 0 mm stroke               | 23 g                                                               |
| Additional moving mass per 10 mm stroke  | 2 g                                                                |
| Basic weight with 0 mm stroke            | 89.9 g                                                             |
| Additional weight per 10 mm stroke       | 4.6 g                                                              |
| Type of mounting                         | With accessories                                                   |
| Pneumatic connection                     | M5                                                                 |
| Note on materials                        | RoHS-compliant                                                     |
| Cover material                           | Wrought aluminum alloy<br>Plain anodized                           |
| Seals material                           | NBR<br>TPE-U(PU)                                                   |

| Feature                     | Value                      |
|-----------------------------|----------------------------|
| Piston rod material         | High-alloy stainless steel |
| Material of cylinder barrel | High-alloy stainless steel |