

# ISO cylinder DSNU-8-50-P-A

Part number: 19180

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 50 mm  |
| Piston diameter  | 8 mm   |
| Piston rod thread  | M4   |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | optional   |
| Conforms to standard   | CETOP RP 52 P<br>ISO 6432  |
| Piston-rod end   | Male thread  |
| Design   | Piston<br>Piston rod<br>Cylinder barrel  |
| Position detection   | Via proximity switch   |
| Symbol   | 00991217   |
| Variants   | Piston rod at one end  |
| Operating pressure   | 0.15 MPa ... 1 MPa   |
| Operating pressure   | 1.5 bar ... 10 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                               | 0.03 J   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 22.6 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 30.2 N   |
| Moving mass for 0 mm stroke                                  | 7.5 g  |
| Additional moving mass per 10 mm stroke                      | 1 g  |
| Basic weight for 0 mm stroke                                 | 34.6 g   |
| Additional weight per 10 mm stroke                           | 2.4 g  |
| Type of mounting   | With accessories   |
| Pneumatic connection   | M5   |
| Note on materials  | RoHS-compliant   |
| Material cover   | Wrought aluminium alloy<br>Colourless anodised   |

| <b>Feature</b>           | <b>Value</b>               |
|--------------------------|----------------------------|
| Material seals           | NBR<br>TPE-U(PU)           |
| Material piston rod      | High-alloy stainless steel |
| Material cylinder barrel | High-alloy stainless steel |