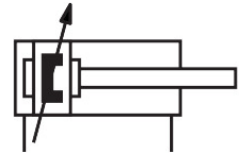


# ISO cylinder DSNU-16-80-PPV-A

Part number: 19231

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 80 mm  |
| Piston diameter  | 16 mm  |
| Piston rod thread  | M6   |
| Cushioning   | Pneumatic cushioning, adjustable 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   | 00991235   |
| 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 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                               | 0.15 J   |
| Cushioning length  | 12 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 103.7 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 120.6 N  |
| Moving mass for 0 mm stroke                                  | 23 g   |
| Additional moving mass per 10 mm stroke                      | 2 g  |
| Basic weight for 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   |

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