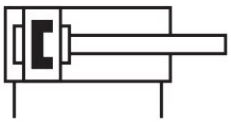
# ISO cylinder
# DSNU-8-80-P-A

Part number: 19181





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 80 mm |
| Piston diameter | 8 mm |
| Piston rod thread | M4 |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | Any |
| 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 |
| Variants | Piston rod at one end |
| Operating pressure | 0.15 MPa...1 MPa<br>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 suitability, measured according to ISO 14644-14 | 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 |

| Feature | Value |
|---|---|
| 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 |