

Standards-based cylinder DSNU-10- -F1A-

Part number: 8149443

FESTO



Data sheet

| Feature | Value |
|--|--|
| Stroke | 1 mm...100 mm |
| Piston diameter | 10 mm |
| Piston rod thread | M4 |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Conforms to standard | CETOP RP 52 P ISO 6432 |
| Structural design | Piston Piston rod Cylinder barrel |
| Position sensing | For proximity sensor |
| Variants | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Extended external thread piston rod Piston rod with external thread shortened at one end Extended piston rod Axial supply port Lateral supply port Through piston rod |
| Operating pressure | 0.15 MPa...1 MPa 1.5 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) | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Suitability for the production of Li-ion batteries | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 6 according to ISO 14644-1 |
| Ambient temperature | -20 °C...80 °C |
| Theoretical force at 6 bar, retracting | 39.6 N |

| Feature | Value |
|---|----------------------------------|
| Theoretical force at 6 bar, advancing | 47.1 N |
| Moving mass at 0 mm stroke | 8.5 g |
| Additional moving mass per 10 mm stroke | 1 g |
| Basic weight with 0 mm stroke | 37.3 g |
| Additional weight per 10 mm stroke | 2.7 g |
| Type of mounting | With accessories |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Cover material | Wrought aluminum alloy, anodized |
| Seals material | TPE-U(PU) |
| Piston rod material | High-alloy stainless steel |
| Material of cylinder barrel | High-alloy stainless steel |