

Standards-based cylinder DSNU-25- -F1A-

Part number: 8149447

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|--|
| Stroke | 1 mm ... 500 mm |
| Piston diameter | 25 mm |
| Piston rod thread | M10x1.25 |
| Cushioning | Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends |
| Mounting position | optional |
| Conforms to standard | ISO 6432 |
| Design | Piston Piston rod Cylinder barrel |
| Position detection | Via proximity switch |
| Symbol | 00991217 |
| 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 male piston rod thread Piston rod with female thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Axial supply port Lateral supply port Through piston rod |
| 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 | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Suitability for the production of Li-ion batteries | Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class | Class 6 according to ISO 14644-1 |
| Ambient temperature | -20 °C ... 80 °C |
| Impact energy in end positions | 0.3 J |
| Cushioning length | 17 mm |

| Feature | Value |
|--|----------------------------------|
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 247.4 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 294.5 N |
| Moving mass for 0 mm stroke | 71 g |
| Additional moving mass per 10 mm stroke | 6 g |
| Basic weight for 0 mm stroke | 238 g |
| Additional weight per 10 mm stroke | 11 g |
| Type of mounting | With accessories |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Material cover | Anodised wrought aluminium alloy |
| Material seals | TPE-U(PU) |
| Material piston rod | High-alloy stainless steel |
| Material cylinder barrel | High-alloy stainless steel |