

Compact cylinder ADN-S-50-5-A-P-A-F1A

Part number: 8142907

FESTO



Data sheet

| Feature | Value |
|--|--|
| Stroke | 5 mm |
| Piston diameter | 50 mm |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Piston-rod end | Male thread |
| Design | Piston Piston rod |
| Position detection | Via proximity switch |
| Variants | Recommended for production facilities for manufacturing of lithium-ion batteries Piston rod at one end |
| Operating pressure | 0.04 MPa...1 MPa 0.4 bar...10 bar 5.8 psi...145 psi |
| 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-B2-L |
| Suitability for the production of Li-ion batteries | Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 6 according to ISO 14644-1 |
| Ambient temperature | 0 °C...60 °C |
| Impact energy in end positions | 1 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 1057 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N |
| Moving mass for 0 mm stroke | 104 g |
| Additional moving mass per 10 mm stroke | 16 g |
| Basic weight for 0 mm stroke | 324 g |
| Additional weight per 10 mm stroke | 63 g |

| Feature | Value |
|------------------------|--|
| Type of mounting | With through-hole Via female thread |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Material cover | Anodised wrought aluminium alloy |
| Material dynamic seals | TPE-U(PU) |
| Material housing | Anodised wrought aluminium alloy |
| Material piston rod | High-alloy stainless steel |