

# Compact cylinder ADN-S-6-10-I-A-F1A

Part number: 8142512

**FESTO**



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 10 mm   |
| Piston diameter  | 6 mm  |
| Cushioning   | No cushioning   |
| Mounting position  | optional  |
| Mode of operation  | Double-acting   |
| Piston-rod end   | Female thread   |
| Design   | Piston<br>Piston rod  |
| Position detection   | Via proximity switch  |
| Variants   | Recommended for production facilities for manufacturing of lithium-ion batteries<br>Piston rod at one end |
| Operating pressure   | 0.2 MPa...0.8 MPa<br>2 bar...8 bar<br>21.75 psi...116 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                               | 2 - Moderate corrosion stress   |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L  |
| Suitability for the production of Li-ion batteries           | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)  |
| Cleanroom suitability, measured according to ISO 14644-14    | Class 5 according to ISO 14644-1  |
| Ambient temperature  | -10 °C...60 °C  |
| Impact energy in end positions                               | 0.006 J   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 9.4 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 17 N  |
| Moving mass  | 2.4 g   |
| Product weight   | 13.6 g  |
| Type of mounting   | With through-hole   |
| Pneumatic connection   | M3  |
| Note on materials  | RoHS-compliant  |
| Material cover   | Wrought aluminium alloy   |

| Feature                | Value  |
|------------------------|--|
| Material dynamic seals | NBR<br>TPE-U(PU)                             |
| Material housing       | Anodised wrought aluminium alloy<br>Anodised |
| Material piston rod    | High-alloy stainless steel                   |