

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

Part number: 8142523

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 10 mm  |
| Piston diameter  | 10 mm  |
| Cushioning   | No cushioning  |
| Mounting position  | Any  |
| Mode of operation  | Double-acting  |
| Piston-rod end   | Male thread  |
| Design   | Piston<br>Piston rod   |
| Symbol   | 00991215   |
| Variants   | Piston rod at one end  |
| Operating pressure   | 0.1 MPa ... 0.8 MPa  |
| Operating pressure   | 1 bar ... 8 bar  |
| Operating pressure   | 14.5 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                               | 0.012 J  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 30.2 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 47 N   |
| Moving mass  | 5.3 g  |
| Product weight   | 15.4 g   |
| Type of mounting   | With through-hole  |
| Pneumatic connection   | M3   |
| Note on materials  | RoHS compliant   |
| Material cover   | Wrought aluminium alloy  |
| Material dynamic seals                                       | NBR<br>TPE-U(PU)   |
| Material housing   | anodised   |
| Material piston rod  | High-alloy stainless steel   |