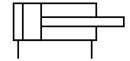
## Compact cylinder ADN-S-10-10-I-F1A

Part number: 8142519



**Data sheet** 



General operating condition

| Feature  | Value   |
|--|---|
| Stroke   | 10 mm   |
| Piston diameter                                    | 10 mm   |
| Cushioning   | No cushioning   |
| Mounting position                                  | Any   |
| Mode of operation                                  | Double-acting   |
| Piston rod end                                     | Internal thread   |
| Structural design                                  | Piston<br>Piston rod  |
| Symbol   | 00991215  |
| Variants   | Recommended for production facilities for the manufacture of lithium-<br>ion batteries<br>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 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)                   | 2 - Moderate corrosion stress   |
| LABS (PWIS) conformity                             | VDMA24364-B2-L  |
| Suitability for the production of Li-ion batteries | Metals with more than 1% by mass of copper, zinc or nickel by mass<br>are excluded from use. Exceptions are nickel in steel, chemically nickel-<br>plated surfaces, printed circuit boards, cables, electrical plug connectors<br>and coils |
| Cleanroom class                                    | Class 6 according to ISO 14644-1  |
| Ambient temperature                                | -10 °C 60 °C  |
| Impact energy in the end positions                 | 0.012 J   |
| Theoretical force at 6 bar, retracting             | 30.2 N  |
| Theoretical force at 6 bar, advancing              | 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  |
| Cover material                                     | Wrought aluminum alloy  |
| Material of dynamic seals                          | NBR<br>TPE-U(PU)  |
| Housing material                                   | Wrought aluminum alloy, anodized<br>Anodized  |

| Feature             | Value                      |
|---------------------|----------------------------|
| Piston rod material | High-alloy stainless steel |