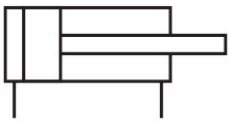
# Compact cylinder
# ADN-S-6-5-A-F1A

Part number: 8142513





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 5 mm |
| Piston diameter | 6 mm |
| Cushioning | No cushioning |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Piston rod end | External thread |
| Structural design | Piston<br>Piston rod |
| Variants | Recommended for production facilities for the manufacture 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 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 | 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 the end positions | 0.006 J |
| Theoretical force at 6 bar, retracting | 9.4 N |
| Theoretical force at 6 bar, advancing | 17 N |
| Moving mass | 1.5 g |
| Product weight | 9.2 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 |

| Feature | Value |
| --- | --- |
| | Anodized |
| Piston rod material | high-alloy stainless steel |