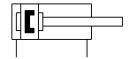
## Compact cylinder ADN-S-50-45-A-P-A-F1A Part number: 8142915







## **Data sheet**

| Feature  | Value  |
|--|--|
| Stroke   | 45 mm  |
| Piston diameter                                    | 50 mm  |
| Cushioning   | Elastic cushioning rings/pads at both ends   |
| Mounting position                                  | Any  |
| Mode of operation                                  | Double-acting  |
| Piston rod end                                     | External thread  |
| Structural design                                  | Piston rod   |
| Position sensing                                   | For proximity sensor   |
| Variants   | Recommended for production facilities for the manufacture of lithium-<br>ion batteries<br>Piston rod at one end  |
| Operating pressure                                 | 0.04 MPa1 MPa<br>0.4 bar10 bar<br>5.8 psi145 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)                   | 0 - No corrosion stress  |
| LABS (PWIS) conformity                             | VDMA24364-B2-L   |
| Suitability for the production of Li-ion batteries | Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 °C60 °C  |
| Impact energy in the end positions                 | 1)   |
| Theoretical force at 6 bar, retracting             | 1057 N   |
| Theoretical force at 6 bar, advancing              | 1178 N   |
| Moving mass at 0 mm stroke                         | 104 g  |
| Additional moving mass per 10 mm stroke            | 16 g   |
| Basic weight with 0 mm stroke                      | 324 g  |
| Additional weight per 10 mm stroke                 | 63 g   |
| Type of mounting                                   | With through-hole<br>With internal thread  |

| Feature                   | Value                            |
|---------------------------|----------------------------------|
| Pneumatic connection      | G1/8                             |
| Note on materials         | RoHS-compliant                   |
| Cover material            | Wrought aluminum alloy, anodized |
| Material of dynamic seals | TPE-U(PU)                        |
| Housing material          | Wrought aluminum alloy, anodized |
| Piston rod material       | High-alloy stainless steel       |