

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

Part number: 8142519

**FESTO**



## 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                                            | Internal 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                                        | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>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        | 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                        | 0.012 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                                                                            |

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