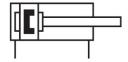
## Compact cylinder ADN-S-40-40-A-P-A-F1A Part number: 8142893

**FESTO** 





## **Data sheet**

| Feature   | Value   |
|---|---|
| Stroke  | 40 mm   |
| Piston diameter   | 40 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<br>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  | 0.06 MPa1 MPa<br>0.6 bar10 bar<br>8.7 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        | 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                                       | 0 °C80 °C   |
| Impact energy in the end positions                        | 0.7 J   |
| Theoretical force at 6 bar, retracting                    | 686 N   |
| Theoretical force at 6 bar, advancing                     | 754 N   |
| Moving mass at 0 mm stroke                                | 62 g  |
| Additional moving mass per 10 mm stroke                   | 9 g   |
| Basic weight with 0 mm stroke                             | 304 g   |
| Additional weight per 10 mm stroke                        | 45 g  |
| Type of mounting  | With through-hole<br>With internal thread   |
| Pneumatic connection                                      | M5  |
| Note on materials   | RoHS-compliant  |

| Feature                   | Value                            |
|---------------------------|----------------------------------|
| 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       |