

# Compact cylinder ADN-S-40-20-A-P-A-F1A

Part number: 8142889

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Stroke  | 20 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   |
| Symbol  | 00991217   |
| Variants  | Piston rod at one end  |
| Operating pressure  | 0.06 MPa ... 1 MPa   |
| Operating pressure  | 0.6 bar ... 10 bar   |
| Operating pressure  | 8.7 psi ... 145 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 °C ... 80 °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   |
| 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   |