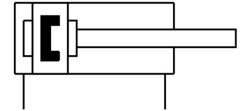


# Compact cylinder ADN-S-12-25-I-P-A-F1A

Part number: 8142566

FESTO



## Data sheet

| Feature                                  | Value   |
|--|---|
| Stroke                                   | 25 mm   |
| Piston diameter                          | 12 mm   |
| Cushioning                               | Elastic cushioning rings/pads at both ends  |
| Mounting position                        | Any   |
| Mode of operation                        | Double-acting   |
| Piston rod end                           | Internal thread   |
| Structural design                        | Piston<br>Piston rod  |
| Position sensing                         | For proximity sensor  |
| Symbol                                   | 00991217  |
| Variants                                 | Recommended for production facilities for the manufacture of lithium-ion batteries<br>Piston rod at one end |
| Operating pressure                       | 0.1 MPa ... 1 MPa   |
| Operating pressure                       | 1 bar ... 10 bar  |
| Operating pressure                       | 14.5 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)         | 2 - Moderate corrosion stress   |
| Ambient temperature                      | 0 °C ... 60 °C  |
| Impact energy in the end positions       | 0.07 J  |
| Theoretical force at 6 bar, retracting   | 51 N  |
| Theoretical force at 6 bar, advancing    | 68 N  |
| Moving mass at 0 mm stroke               | 6 g   |
| Additional weight per 10 mm stroke       | 15 g  |
| Basic weight with 0 mm stroke            | 33 g  |
| Additional moving mass per 10 mm stroke  | 2 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                | NBR<br>TPE-U(PU)  |
| Housing material                         | Wrought aluminum alloy, anodized  |
| Piston rod material                      | High-alloy stainless steel  |