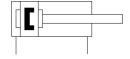
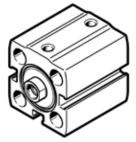
## compact cylinder ADN-S-25-40-I-P-A-F1A Part number: 8142813







## **Data sheet**

| Feature  | Value   |
|--|---|
| Stroke   | 40 mm   |
| Piston diameter  | 25 mm   |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                      |
| Assembly position  | Any   |
| Mode of operation  | double-acting   |
| Piston-rod end   | Female thread   |
| Design structure   | Piston  |
|  | Piston rod  |
| Position detection                                       | For proximity sensor  |
| Variants   | Single-ended piston rod   |
|  | Recommended for production facilities for the manufacture of lithium- |
|  | ion batteries   |
| Operating pressure MPa                                   | 0.06 1 MPa  |
| Operating pressure                                       | 0.6 10 bar  |
|  | 8.7 145 psi   |
| Operating medium   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]              |
| Note on operating and pilot medium                       | Lubricated operation possible (subsequently required for further      |
|  | operation)  |
| Corrosion resistance classification CRC                  | 2 - Moderate corrosion stress   |
| PWIS conformity  | VDMA24364-B2-L  |
| RSBP classification to CD-0033                           | F1a   |
| Cleanroom class  | ISO class 6   |
| Ambient temperature                                      | 0 60 °C   |
| Impact energy in end positions                           | 0.3 J   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 247 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 295 N   |
| Moving mass with 0 mm stroke                             | 25 g  |
| Additional mass factor per 10 mm of stroke               | 6 g   |
| Basic weight for 0 mm stroke                             | 88 g  |
| Additional weight per 10 mm stroke                       | 30 g  |
| Mounting type  | with through hole   |
|  | with internal (female) thread   |
| Pneumatic connection                                     | M5  |
| Materials note   | Conforms to RoHS  |
| Material cover   | Anodised wrought aluminium alloy                                      |
| Material of dynamic seals                                | NBR   |
|  | TPE-U(PU)   |
| Material housing   | Anodised wrought aluminium alloy                                      |
| Material piston rod                                      | High alloy steel, non-corrosive                                       |