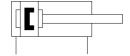
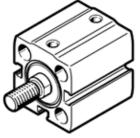
## compact cylinder ADN-S-25-25-A-P-A-F1A Part number: 8142830







## **Data sheet**

| Feature                                                  | Value                                                                 |
|----------------------------------------------------------|-----------------------------------------------------------------------|
| Stroke                                                   | 25 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                                           | Male 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                                       |