

# Compact cylinder ADN-S-50-25-I-P

Part number: 5138182

**FESTO**



## Data sheet

| Feature                                                   | Value                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------------------------|
| Stroke                                                    | 25 mm                                                                        |
| Piston diameter                                           | 50 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                                                         |
| Variants                                                  | Additional PTFE piston guide                                                 |
| Operating pressure                                        | 0.04 MPa...1 MPa<br>0.4 bar...10 bar<br>5.8 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)                          | 1 - Low corrosion stress                                                     |
| LABS (PWIS) conformity                                    | VDMA24364-B2-L                                                               |
| 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                        | 0.6 J                                                                        |
| Theoretical force at 6 bar, retracting                    | 1057 N                                                                       |
| Theoretical force at 6 bar, advancing                     | 1178 N                                                                       |
| Moving mass at 0 mm stroke                                | 105 g                                                                        |
| Additional moving mass per 10 mm stroke                   | 16 g                                                                         |
| Basic weight with 0 mm stroke                             | 310 g                                                                        |
| Additional weight per 10 mm stroke                        | 63 g                                                                         |
| Type of mounting                                          | Optionally:<br>With through-hole<br>With internal thread<br>With accessories |
| Pneumatic connection                                      | G1/8                                                                         |
| Note on materials                                         | RoHS-compliant                                                               |
| Cover material                                            | Wrought aluminum alloy, anodized                                             |
| Material of dynamic seals                                 | NBR                                                                          |

| Feature             | Value                            |
|---------------------|----------------------------------|
| Housing material    | Wrought aluminum alloy, anodized |
| Piston rod material | High-alloy stainless steel       |