

# Compact air cylinder ADN-2 1/2"-1"-A-P-A

Part number: 557140

FESTO



 General operating condition

## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 25.4 mm  |
| Piston diameter                          | 2 1/2"   |
| Piston rod thread                        | 1/2-20 UNF-2A  |
| Based on norm                            | ISO 21287  |
| 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<br>Profile barrel                                       |
| Position sensing                         | For proximity sensor   |
| Variants                                 | 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  |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L  |
| Ambient temperature                      | -20 °C ... 80 °C   |
| Impact energy in the end positions       | 1.30023 J  |
| Theoretical force at 6 bar, retracting   | 1750.002 N   |
| Theoretical force at 6 bar, advancing    | 1870.002 N   |
| Moving mass at 0 mm stroke               | 180.646 g  |
| Additional moving mass per 10 mm stroke  | 59.223 g   |
| Basic weight with 0 mm stroke            | 724.598 g  |
| Additional weight per 10 mm stroke       | 16.046 g   |
| Type of mounting                         | Optionally:<br>With through-hole<br>With internal thread<br>With accessories |
| Pneumatic connection                     | 1/8 NPT  |
| Flange screws material                   | Steel  |
| Cover material                           | Wrought aluminum alloy, anodized   |
| Material of dynamic seals                | TPE-U(PU)  |
| Piston rod material                      | High-alloy steel   |

| Feature                     | Value                                   |
|-----------------------------|---|
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |