

# Compact air cylinder ADN-1 1/4"-1/4"-I-P-A

Part number: 557090

FESTO



 General operating condition

## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 6.35 mm  |
| Piston diameter                          | 1 1/4"   |
| Piston rod thread                        | 5/16-24 UNF-2B   |
| Based on norm                            | ISO 21287  |
| 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<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       | 0.39997 J  |
| Theoretical force at 6 bar, retracting   | 415.001 N  |
| Theoretical force at 6 bar, advancing    | 483.001 N  |
| Moving mass at 0 mm stroke               | 60.215 g   |
| Additional moving mass per 10 mm stroke  | 30.108 g   |
| Basic weight with 0 mm stroke            | 265.951 g  |
| Additional weight per 10 mm stroke       | 9.044 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 |