

# Compact air cylinder ADN-1 5/8"-2"-I-P-A

Part number: 557115

**FESTO**



## Data sheet

| Feature                                  | Value  |
|--|--|
| Stroke                                   | 2 in   |
| Piston diameter                          | 1 5/8"   |
| 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<br>1 bar...10 bar<br>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                      | -4 °F...176 °F   |
| Impact energy in the end positions       | 0.516 ft-lbf   |
| Theoretical force at 6 bar, retracting   | 154 lbf  |
| Theoretical force at 6 bar, advancing    | 170 lbf  |
| Moving mass at 0 mm stroke               | 2.83 oz  |
| Additional moving mass per 10 mm stroke  | 1.31 oz  |
| Basic weight with 0 mm stroke            | 12.2 oz  |
| Additional weight per 10 mm stroke       | 0.319 oz   |
| Type of mounting                         | With through-hole<br>With internal thread<br>With accessories<br>Optionally: |
| Pneumatic connection                     | 1/8 NPT  |

| Feature                     | Value                                   |
|-----------------------------|---|
| Flange screws material      | Steel                                   |
| Cover material              | Wrought aluminum alloy, anodized        |
| Material of dynamic seals   | TPE-U(PU)                               |
| Piston rod material         | High-alloy steel                        |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |