

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

Part number: 557073

**FESTO**



## Data sheet

| Feature                                  | Value                                                                           |
|------------------------------------------|---------------------------------------------------------------------------------|
| Stroke                                   | 0.5 in                                                                          |
| Piston diameter                          | 1 "                                                                             |
| Piston rod thread                        | 10-32 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                         | Via proximity switch                                                            |
| 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       | 0.221 ft-lbf                                                                    |
| Theoretical force at 6 bar, retracting   | 55.5 lbf                                                                        |
| Theoretical force at 6 bar, advancing    | 66.3 lbf                                                                        |
| Moving mass at 0 mm stroke               | 1.06 oz                                                                         |
| Additional moving mass per 10 mm stroke  | 0.814 oz                                                                        |
| Basic weight with 0 mm stroke            | 5.52 oz                                                                         |
| Additional weight per 10 mm stroke       | 0.212 oz                                                                        |
| Type of mounting                         | Alternatively:<br>With through-hole<br>With internal thread<br>With accessories |
| Pneumatic connection                     | 10-32 UNF-2B                                                                    |

| 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 |