

# Compact cylinder ADN-4"-2"-I-P-A

Part number: 557185

**FESTO**



## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 2 in   |
| Piston diameter  | 4"   |
| Piston rod thread  | 1/2-20 UNF-2B  |
| Based on standard  | ISO 21287  |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | optional   |
| Mode of operation  | Double-acting  |
| Piston-rod end   | Female thread  |
| Design   | Piston<br>Piston rod<br>Profile barrel   |
| Position detection   | 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 to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L  |
| Ambient temperature  | -4 °F...176 °F   |
| Impact energy in end positions                               | 1.84 ft-lbf  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 1017 lbf   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1059 lbf   |
| Moving mass for 0 mm stroke                                  | 20.2 oz  |
| Additional moving mass per 10 mm stroke                      | 3.47 oz  |
| Basic weight for 0 mm stroke                                 | 76.3 oz  |
| Additional weight per 10 mm stroke                           | 0.885 oz   |
| Type of mounting   | Either:<br>With through-hole<br>Via female thread<br>With accessories                      |
| Pneumatic connection   | 1/8 NPT  |

| Feature                  | Value                                   |
|--------------------------|---|
| Material collar screws   | Steel                                   |
| Material cover           | Die-cast aluminium, coated              |
| Material dynamic seals   | TPE-U(PU)                               |
| Material piston rod      | High-alloy steel                        |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |