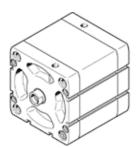
## Compact cylinder ADN-3"-1 1/2"-I-P-A Part number: 557167

**FESTO** 

Per ISO 21287, with position sensing and internal piston rod thread



## **Data sheet**

| Feature  | Value  |
|--|--|
| Stroke   | 1.5 "  |
| Piston diameter  | 3"   |
| Piston rod thread  | 1/2-20 UNF-2B  |
| Based on the standard                                    | ISO 21287  |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                 |
| Assembly position  | Any  |
| Mode of operation  | double-acting  |
| Piston-rod end   | Female thread  |
| Design structure   | Piston   |
|  | Piston rod   |
|  | Profile barrel   |
| Position detection                                       | For proximity sensor   |
| Variants   | Single-ended piston rod  |
| Operating pressure MPa                                   | 0.1 1 MPa  |
| Working pressure   | 1 10 bar   |
| Operating pressure                                       | 14.5 145 psi   |
| Operating medium   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]         |
| Note on operating and pilot medium                       | Lubricated operation possible (subsequently required for further |
|  | operation)   |
| Corrosion resistance classification CRC                  | 2 - Moderate corrosion stress                                    |
| PWIS conformity  | VDMA24364-B1/B2-L  |
| Ambient temperature                                      | -4 176 °F  |
| Impact energy in end positions                           | 1.327 ft-lbf   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 635.535 lbf  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 678.024 lbf  |
| Moving mass with 0 mm stroke                             | 14.16 oz   |
| Additional mass factor per 10 mm of stroke               | 2.797 oz   |
| Basic weight for 0 mm stroke                             | 46.02 oz   |
| Additional weight per 10 mm stroke                       | 0.885 oz   |
| Mounting type  | with through hole  |
|  | with internal (female) thread                                    |
|  | with accessories   |
|  | Optional   |
| Pneumatic connection                                     | 1/8 NPT  |
| Material of flange screw                                 | Steel  |
| Material cover   | Coated die-cast aluminium  |
| Material of dynamic seals                                | TPE-U(PU)  |
| Material piston rod                                      | High alloy steel   |
| Material cylinder barrel                                 | Smooth-anodised wrought aluminium alloy                          |