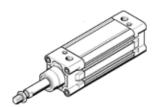
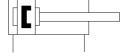
## profile cylinder DNC-2 1/2"-3"-P-A Part number: 177948

**FESTO** 

per ISO 15552, with profile cylinder barrel, with sensing option, non-adjustable cushioning.





## **Data sheet**

| Feature  | Value   |
|--|---|
| Stroke   | 3 "   |
| Piston diameter  | 2 1/2"  |
| Piston rod thread  | 5/8-18 UNF-2A   |
| Based on the standard                                    | ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290) |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                          |
| Assembly position  | Any   |
| Piston-rod end   | Male thread   |
| Design structure   | Piston  |
|  | Piston rod  |
|  | Profile barrel  |
| Position detection                                       | For proximity sensor  |
| Variants   | Single-ended piston rod   |
| Operating pressure MPa                                   | 0.06 1.2 MPa  |
| Operating pressure                                       | 0.6 12 bar  |
| Mode of operation  | double-acting   |
| 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                                      | -20 80 °C   |
| Impact energy in end positions                           | 0.5 J   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 1,682 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 1,870 N   |
| Moving mass with 0 mm stroke                             | 663 g   |
| Additional mass factor per 10 mm of stroke               | 25 g  |
| Basic weight for 0 mm stroke                             | 1,709 g   |
| Additional weight per 10 mm stroke                       | 73 g  |
| Mounting type  | with internal (female) thread   |
|  | with accessories  |
| Pneumatic connection                                     | NPT3/8-18   |
| Materials note   | Conforms to RoHS  |
| Material cover   | Aluminium die cast  |
|  | coated  |
| Material seals   | TPE-U(PU)   |
| Material piston rod                                      | High alloy steel  |
| Material cylinder barrel                                 | Wrought Aluminium alloy   |
|  | Smooth anodised   |