

# Profile cylinder DNC-1 5/8"-12"-P-A

Part number: 177850

FESTO



## Data sheet

| Feature                                  | Value                                                                     |
|------------------------------------------|---------------------------------------------------------------------------|
| Type code                                | DNC                                                                       |
| Stroke                                   | 304.8 mm                                                                  |
| Piston diameter                          | 1 5/8"                                                                    |
| Piston rod thread                        | 1/2-20 UNF-2A                                                             |
| Based on norm                            | ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290) |
| Cushioning                               | Elastic cushioning rings/pads at both ends                                |
| Mounting position                        | Any                                                                       |
| Piston rod end                           | External thread                                                           |
| Structural design                        | Piston<br>Piston rod<br>Profile barrel                                    |
| Position sensing                         | For proximity sensor                                                      |
| Symbol                                   | 00991217                                                                  |
| Variants                                 | Piston rod at one end                                                     |
| Operating pressure                       | 0.06 MPa ... 1.2 MPa                                                      |
| Operating pressure                       | 0.6 bar ... 12 bar                                                        |
| Mode of operation                        | Double-acting                                                             |
| 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                                             |
| Ambient temperature                      | -20 °C ... 80 °C                                                          |
| Impact energy in the end positions       | 0.2 J                                                                     |
| Theoretical force at 6 bar, retracting   | 633 N                                                                     |
| Theoretical force at 6 bar, advancing    | 754 N                                                                     |
| Moving mass at 0 mm stroke               | 307 g                                                                     |
| Additional weight per 10 mm stroke       | 45 g                                                                      |
| Basic weight with 0 mm stroke            | 800 g                                                                     |
| Additional moving mass per 10 mm stroke  | 16 g                                                                      |
| Type of mounting                         | With internal thread<br>With accessories                                  |
| Pneumatic connection                     | NPT1/4-18                                                                 |
| Note on materials                        | RoHS-compliant                                                            |
| Cover material                           | Die-cast aluminum<br>Coated                                               |
| Seals material                           | TPE-U(PU)                                                                 |
| Piston rod material                      | High-alloy steel                                                          |

| Feature                     | Value                                     |
|-----------------------------|-------------------------------------------|
| Material of cylinder barrel | Wrought aluminum alloy<br>Smooth anodized |