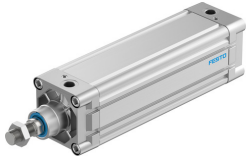


# Profile cylinder DNC-3"-10"-PPV-A

Part number: 178031

**FESTO**



## Data sheet

| Feature                                  | Value   |
|--|---|
| Type code                                | DNC   |
| Maritime classification                  | See certificate   |
| Stroke                                   | 254 mm  |
| Piston diameter                          | 3"  |
| Piston rod thread                        | 3/4-16 UNF-2A   |
| Based on norm                            | ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290) |
| Cushioning                               | Pneumatic cushioning, adjustable at both ends                             |
| Mounting position                        | Any   |
| Piston rod end                           | External thread   |
| Design                                   | Piston<br>Piston rod<br>Profile barrel                                    |
| Position sensing                         | For proximity sensor  |
| Symbol                                   | 00991235  |
| Variants                                 | Piston rod at one end   |
| Operating pressure                       | 0.6 bar ... 12 bar  |
| Operating pressure                       | 0.06 MPa ... 1.2 MPa  |
| 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       | 0.9 J   |
| Cushioning length                        | 32 mm   |
| Theoretical force at 6 bar, retracting   | 2721 N  |
| Theoretical force at 6 bar, advancing    | 3016 N  |
| Moving mass at 0 mm stroke               | 1131 g  |
| Additional weight per 10 mm stroke       | 106 g   |
| Basic weight with 0 mm stroke            | 2790 g  |
| Additional moving mass per 10 mm stroke  | 38 g  |
| Type of mounting                         | With internal thread<br>With accessories                                  |
| Pneumatic connection                     | NPT3/8-18   |
| Note on materials                        | RoHS-compliant  |
| Cover material                           | Die-cast aluminum<br>Coated   |

| Feature                     | Value                                     |
|-----------------------------|---|
| Seals material              | TPE-U(PU)                                 |
| Piston rod material         | High-alloy steel                          |
| Material of cylinder barrel | Wrought aluminum alloy<br>Smooth anodized |