

# standards-based cylinder

## DNC-125-100-PPV-A

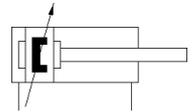
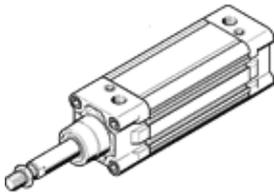
Part number: 163501

Classic - do not use for new projects

FESTO

As per ISO 15552, with profile cylinder barrel, for proximity sensing, with adjustable cushioning at both end positions.

Modern alternatives can be found by entering the first four characters of the type code in the search field.



### Data sheet

| Feature                                    | Value   |
|--|---|
| Stroke                                     | 100 mm  |
| Piston diameter                            | 125 mm  |
| Piston rod thread                          | M27x2   |
| Cushioning                                 | PPV: Pneumatic cushioning adjustable at both ends                           |
| Assembly position                          | Any   |
| Conforms to standard                       | ISO 15552   |
| Piston-rod end                             | Male thread   |
| Design structure                           | Piston<br>Piston rod<br>Profile barrel                                      |
| Position detection                         | For proximity sensor  |
| Variants                                   | Single-ended piston rod   |
| Operating pressure                         | 0.6 ... 10 bar  |
| Mode of operation                          | double-acting   |
| Maritime classification                    | see certificate   |
| 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   |
| Ambient temperature                        | -20 ... 80 °C   |
| Impact energy in end positions             | 5 J   |
| Cushioning length                          | 42 mm   |
| Theoretical force at 6 bar, return stroke  | 6,881 N   |
| Theoretical force at 6 bar, advance stroke | 7,363 N   |
| Moving mass with 0 mm stroke               | 2,809 g   |
| Additional weight per 10 mm stroke         | 168 g   |
| Basic weight for 0 mm stroke               | 6,771 g   |
| Additional mass factor per 10 mm of stroke | 63 g  |
| Mounting type                              | with internal (female) thread<br>with accessories                           |
| Pneumatic connection                       | G1/2  |
| Materials note                             | Conforms to RoHS  |
| Material cover                             | Aluminium die cast<br>coated  |
| Material seals                             | TPE-U(PU)   |
| Material piston rod                        | High alloy steel  |
| Material cylinder barrel                   | Wrought Aluminium alloy<br>Smooth anodised                                  |