

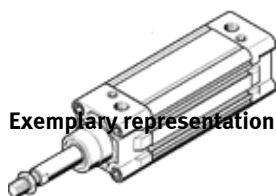
# Standards-based cylinder DNC-100- -PPV

Part number: 163478  
Classic - do not use for new projects

FESTO

As per ISO 15552, with profile cylinder barrel, 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                                                   | 3 ... 2,000 mm                                                              |
| Piston diameter                                          | 100 mm                                                                      |
| Piston rod thread                                        | M20x1,5                                                                     |
| 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                                       | No                                                                          |
| Variants                                                 | Single-ended piston rod                                                     |
| Operating pressure MPa                                   | 0.06 ... 1.2 MPa                                                            |
| Working 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                           | 1.2 J                                                                       |
| Cushioning length                                        | 32 mm                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 4,418 N                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 4,712 N                                                                     |
| Moving mass with 0 mm stroke                             | 1,544 g                                                                     |
| Additional mass factor per 10 mm of stroke               | 38 g                                                                        |
| Basic weight for 0 mm stroke                             | 4,653 g                                                                     |
| Additional weight per 10 mm stroke                       | 115 g                                                                       |
| Mounting type                                            | with internal (female) thread<br>with accessories                           |
| Pneumatic connection                                     | G1/2                                                                        |
| Materials note                                           | Conforms to RoHS                                                            |
| Material cover                                           | Aluminum die cast<br>coated                                                 |
| Material seals                                           | TPE-U(PU)                                                                   |
| Material piston rod                                      | High alloy steel                                                            |
| Material cylinder barrel                                 | Wrought Aluminum alloy<br>Smooth anodized                                   |