

# Compact cylinder DPDM-10-20-PA

Part number: 4831872

FESTO



 General operating condition

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 20 mm                                                                                      |
| Piston diameter                                              | 10 mm                                                                                      |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                            | optional                                                                                   |
| Mode of operation                                            | Double-acting                                                                              |
| Design                                                       | Piston<br>Piston rod<br>Profile barrel                                                     |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991217                                                                                   |
| Variants                                                     | Piston rod at one end                                                                      |
| Operating pressure                                           | 0.15 MPa ... 0.8 MPa                                                                       |
| Operating pressure                                           | 1.5 bar ... 8 bar                                                                          |
| Operating medium                                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L                                                                             |
| Cleanroom class                                              | Class 6 according to ISO 14644-1                                                           |
| Ambient temperature                                          | -10 °C ... 80 °C                                                                           |
| Theoretical force at 0.6 MPa (6 bar, 87 psi)                 | 47 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 40 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 47 N                                                                                       |
| Moving mass for 0 mm stroke                                  | 6.3 g                                                                                      |
| Additional moving mass per 10 mm stroke                      | 1 g                                                                                        |
| Basic weight for 0 mm stroke                                 | 30 g                                                                                       |
| Additional weight per 10 mm stroke                           | 7.5 g                                                                                      |
| Type of mounting                                             | Either:<br>With through-hole<br>Via female thread                                          |
| Pneumatic connection                                         | M5                                                                                         |
| Note on materials                                            | RoHS-compliant                                                                             |
| Material cover                                               | Wrought aluminium alloy                                                                    |
| Material seals                                               | NBR<br>TPE-U(PU)                                                                           |
| Material housing                                             | Anodised wrought aluminium alloy                                                           |
| Material piston rod                                          | High-alloy stainless steel                                                                 |