

# Compact cylinder DPDM-25-50-PA

Part number: 4829577

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 50 mm   |
| Piston diameter  | 25 mm   |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position  | Any   |
| Mode of operation  | double-acting   |
| Design structure   | Piston<br>Piston rod<br>Profile barrel                                      |
| Position detection                                       | For proximity sensor  |
| Variants   | Single-ended piston rod   |
| Operating pressure MPa                                   | 0.1 ... 0.8 MPa   |
| Working pressure   | 1 ... 8 bar   |
| 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-B2-L  |
| Cleanroom class  | ISO class 6   |
| Ambient temperature                                      | -10 ... 80 °C   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi)             | 295 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 247 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 295 N   |
| Moving mass with 0 mm stroke                             | 58 g  |
| Additional mass factor per 10 mm of stroke               | 6.5 g   |
| Basic weight for 0 mm stroke                             | 205 g   |
| Additional weight per 10 mm stroke                       | 33.5 g  |
| Mounting type  | with through hole<br>with internal (female) thread<br>Optional              |
| Pneumatic connection                                     | M5  |
| Materials note   | Conforms to RoHS  |
| Material cover   | Wrought Aluminum alloy  |
| Material seals   | TPE-U(PU)   |
| Material housing   | Anodised wrought aluminium alloy  |
| Material piston rod                                      | High alloy steel, non-corrosive   |