

# standards-based cylinder

## DSBG-50-250-PPSA-N3

Part number: 1646731

FESTO



### Data sheet

| Feature                                    | Value   |
|--|---|
| Stroke                                     | 250 mm  |
| Piston diameter                            | 50 mm   |
| Piston rod thread                          | M16x1,5   |
| Cushioning                                 | PPS: Self-adjusting pneumatic end-position cushioning                       |
| Assembly position                          | Any   |
| Conforms to standard                       | ISO 15552   |
| Piston-rod end                             | Male thread   |
| Design structure                           | Piston<br>Piston rod<br>Tie rod<br>Cylinder barrel                          |
| Position detection                         | For proximity sensor  |
| Variants                                   | Single-ended piston rod   |
| Operating pressure                         | 0.4 ... 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   |
| Ambient temperature                        | -20 ... 80 °C   |
| Impact energy in end positions             | 1 J   |
| Cushioning length                          | 22 mm   |
| Theoretical force at 6 bar, return stroke  | 990 N   |
| Theoretical force at 6 bar, advance stroke | 1,178 N   |
| Moving mass with 0 mm stroke               | 365 g   |
| Additional weight per 10 mm stroke         | 52 g  |
| Basic weight for 0 mm stroke               | 1,190 g   |
| Additional mass factor per 10 mm of stroke | 25 g  |
| Mounting type                              | with internal (female) thread<br>with accessories<br>Optional               |
| Pneumatic connection                       | G1/4  |
| Materials note                             | Conforms to RoHS  |
| Material cover                             | Die-cast aluminium, coated  |
| Material piston seal                       | TPE-U(PU)   |
| Material piston                            | Wrought Aluminium alloy   |
| Material piston rod                        | High alloy steel  |
| Material piston rod wiper seal             | TPE-U(PU)   |
| Buffer seal material                       | TPE-U(PU)   |
| Cushion piston material                    | POM   |
| Material cylinder barrel                   | Smooth-anodised wrought aluminium alloy                                     |
| Material nut                               | steel, galvanized   |
| Material bearing                           | POM   |
| Collar nut material                        | Galvanised steel  |
| Material tie rod                           | High alloy steel  |