

Standards-based cylinder DSBC-100-320-D3-PPSA-N3

Part number: 8165696

FESTO



Data sheet

| Feature | Value |
|--|---|
| Stroke | 320 mm |
| Piston diameter | 100 mm |
| Piston rod thread | M20x1,5 |
| Cushioning | PPS: Self-adjusting pneumatic end-position cushioning |
| Assembly position | Any |
| Conforms to standard | ISO 15552 |
| Piston-rod end | Male thread |
| Design structure | Piston Piston rod Profile barrel |
| Position detection | For proximity sensor |
| Variants | Single-ended piston rod |
| Operating pressure MPa | 0.04 ... 1.2 MPa |
| Working 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 |
| PWIS conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 ... 80 °C |
| Impact energy in end positions | 2.5 J |
| Cushioning length | 31 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 | 1,000 g |
| Additional mass factor per 10 mm of stroke | 39 g |
| Basic weight for 0 mm stroke | 3,665 g |
| Additional weight per 10 mm stroke | 101 g |
| Mounting type | with internal (female) thread with accessories Optional |
| Pneumatic connection | G1/2 |
| Materials note | Conforms to RoHS |
| Material cover | Coated die-cast aluminium |
| Material piston seal | TPE-U(PU) |
| Material piston | Wrought Aluminum 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 |
| Material of flange screw | steel, galvanized |