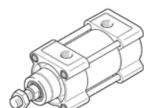
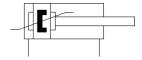
Standards-based cylinder DSBG-80-320-PPSA-N3 Part number: 1646794







Data sheet

| Feature | Value |
|----------------------------------------------------------|------------------------------------------------------------------|
| Stroke | 320 mm |
| Piston diameter | 80 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 |
| | Tie rod |
| | Cylinder 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 |
| Note on operating and phot medium | operation) |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| • | -20 80 °C |
| Ambient temperature | |
| Impact energy in end positions | 1.8 |
| Cushioning length | 31 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 2,721 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 3,016 N |
| Moving mass | 2,058 g |
| Moving mass with 0 mm stroke | 810 g |
| Additional mass factor per 10 mm of stroke | 39 g |
| Product weight | 5,380 g |
| Basic weight for 0 mm stroke | 2,660 g |
| Additional weight per 10 mm stroke | 85 g |
| Mounting type | with internal (female) thread |
| | with accessories |
| | Optional |
| Pneumatic connection | G3/8 |
| 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 |
| Collar nut material | Galvanized steel |
| Material tie rod | High alloy steel |