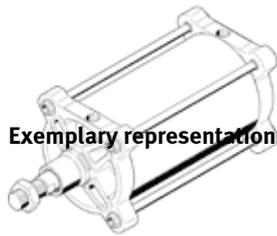


Standards-based cylinder

DSBG-...-320- -

Part number: 2776472

FESTO



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|--|
| Stroke | 1 ... 2,250 mm |
| Piston diameter | 320 mm |
| Piston rod thread | M48x2 M48 M42x2 M36x2 M36 M30x2 M27x2 M27 |
| Based on the standard | ISO 15552 |
| Cushioning | P: Flexible cushioning rings/plates at both ends PPV: Pneumatic cushioning adjustable at both ends |
| Assembly position | Any |
| Conforms to standard | ISO 15552 |
| Piston-rod end | Male thread Female thread |
| Design structure | Piston Piston rod Tie rod Cylinder barrel |
| Position detection | For proximity sensor |
| Variants | Extended male piston rod thread Female thread on piston rod Piston rod with special thread Extended piston rod Excellent corrosion protection Through piston rod Heat resistant seals, max. 120°C Screwed swivel mounting position Spacer bolt on end cap side Spacer bolt on both sides Spacer bolt on bearing cap side Single-ended piston rod For proximity sensor Piston rod with shortened male thread Variable stud bolt |
| Operating pressure MPa | 0.06 ... 1 MPa |
| Working pressure | 0.6 ... 10 bar |
| Mode of operation | double-acting |
| CE symbol (see declaration of conformity) | according to EU-Ex protection guideline (ATEX) |
| ATEX category Gas | II 2G |
| ATEX category Dust | II 2D |
| Explosion ignition protection type Gas | c T4 |

| Feature | Value |
|--|---|
| Explosion ignition protection type Dust | c T120°C |
| Explosion-proof ambient temperature | -20°C ≤ Ta ≤ +60°C |
| 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 3 - High corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 ... 120 °C |
| Impact energy in end positions | 6 ... 12.6 J |
| Cushioning length | 65 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 46,385 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 46,385 ... 48,255 N |
| Materials note | Conforms to RoHS |
| Material cover | Coated die-cast aluminium |
| Material piston seal | FPM NBR |
| Material piston | Die-cast aluminium |
| Material piston rod | High alloy steel High alloy steel, non-corrosive |
| Material piston rod wiper seal | FPM NBR |
| Buffer seal material | FPM TPE-U(PU) |
| Cushion piston material | Wrought aluminium alloy POM |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |
| Material nut | steel, galvanized High alloy steel, non-corrosive |
| Material bearing | Bronze Metal polymer compound |
| Collar nut material | Galvanized steel High alloy steel, non-corrosive |
| Material tie rod | High alloy steel High alloy steel, non-corrosive |
| Spacer bolt material | High alloy steel High alloy steel, non-corrosive |
| Swivel mounting material | Galvanized steel |