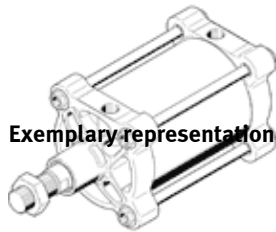


Standards-based cylinder

DSBG-...-160- -

Part number: 2036032



Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|------------------------|---|
| Stroke | 1 ... 2,700 mm |
| Piston diameter | 160 mm |
| Piston rod thread | M36x2 M36 M30x2 M16x1,5 M20x1,5 M27x2 M27 M24 M20 M16 |
| 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 Metal wiper seal Excellent corrosion protection Through piston rod Heat resistant seals, max. 120 °C Clamped swivel mounting position Screwed swivel mounting position Spacer bolt on end cap side Spacer bolt on both sides Spacer bolt on bearing cap side Temperature range 0 - 150 °C 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 |

| Feature | Value |
|--|---|
| 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 |
| 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 VDMA24364 zone III |
| Ambient temperature | -20 ... 150 °C |
| Impact energy in end positions | 2.3 ... 3.3 J |
| Cushioning length | 48 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 11,310 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 11,310 ... 12,064 N |
| Pneumatic connection | G3/4 |
| 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 stainless steel, hard chrome plated 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 |
| Rod wiper seal material | Brass |
| Material bearing | Bronze Metal polymer compound |
| Collar nut material | Galvanized steel |
| 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 | Spheroidal graphite cast iron, painted |