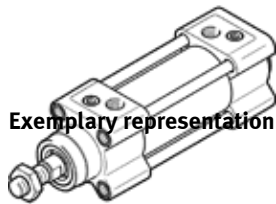


# Standards-based cylinder

**DSBG-...-32- -**

Part number: 1634484

**FESTO**



Exemplary representation

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                      | Value  |
|--|--|
| Stroke                                       | 1 ... 2,800 mm   |
| Piston diameter                              | 32 mm  |
| Piston rod thread                            | M6<br>M10x1,25   |
| Max. angular deflection of piston rod +/-    | -0.65 ... 0.65 deg   |
| Based on the standard                        | ISO 15552  |
| Cushioning                                   | P: Flexible cushioning rings/plates at both ends<br>PPS: Self-adjusting pneumatic end-position cushioning<br>PPV: Pneumatic cushioning adjustable at both ends   |
| Assembly position                            | Any  |
| Conforms to standard                         | ISO 15552  |
| Piston-rod end                               | Male thread<br>Female thread   |
| Design structure                             | Piston<br>Piston rod<br>Tie rod<br>Cylinder barrel   |
| Position detection                           | For proximity sensor   |
| Variants                                     | For unlubricated operation<br>Bellows on bearing cap<br>Hard wiper seal<br>Extended male piston rod thread<br>Female thread on piston rod<br>Extended piston rod<br>Metal wiper seal<br>With protection against rotation<br>Constant slow movement<br>Low-friction<br>Through piston rod<br>Heat resistant seals, max. 120°C<br>Sintered bearing<br>Temperature range 0 - 150 °C<br>Temperature range -40 - 80 °C<br>Single-ended piston rod<br>Low friction for balancer applications |
| Operating pressure MPa                       | 0.01 ... 1.2 MPa   |
| Working pressure                             | 0.1 ... 12 bar   |
| Mode of operation                            | double-acting  |
| CE symbol (see declaration of conformity)    | according to EU-Ex protection guideline (ATEX)   |
| UKCA marking (see declaration of conformity) | To UK EX instructions  |
| ATEX category Gas                            | II 2G  |
| ATEX category Dust                           | II 2D  |
| Explosion ignition protection type Gas       | Ex h IIC T4 Gb   |
| Explosion ignition protection type Dust      | Ex h IIIC T120°C Db  |

| <b>Feature</b>   | <b>Value</b>  |
|--|---|
| Explosion-proof ambient temperature                        | -20°C ≤ Ta ≤ +60°C  |
| Explosion protection certification outside the EU          | EPL Db (GB)<br>EPL Gb (GB)  |
| 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<br>3 - High corrosion stress  |
| PWIS conformity  | VDMA24364-B1/B2-L<br>VDMA24364 zone III   |
| Ambient temperature  | -40 ... 150 °C  |
| Impact energy in end positions                             | 0.4 J   |
| Cushioning length  | 20 mm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting   | 415 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance      | 415 ... 483 N   |
| Additional weight per piston rod extension of 10 mm        | 9 g   |
| Additional weight per piston rod thread extension of 10 mm | 6 g   |
| Mounting type  | with internal (female) thread<br>with accessories<br>Optional   |
| Pneumatic connection                                       | G1/8  |
| Materials note   | Conforms to RoHS  |
| Material cover   | Coated die-cast aluminium   |
| Material piston seal                                       | FPM<br>HNBR<br>TPE-U(PU)  |
| Material piston  | Wrought Aluminium alloy   |
| Material piston rod  | high-alloy stainless steel, hard chrome plated<br>High alloy steel<br>High alloy steel, non-corrosive |
| Material piston rod wiper seal                             | FPM<br>HNBR<br>PE<br>TPE-U(PU)  |
| Buffer seal material                                       | FPM<br>TPE-U(PU)  |
| Cushion piston material                                    | Wrought aluminium alloy<br>POM  |
| Material cylinder barrel                                   | Smooth-anodised wrought aluminium alloy   |
| Material nut   | steel, galvanized<br>High alloy steel, non-corrosive  |
| Rod wiper seal material                                    | Brass<br>PTFE reinforced  |
| Material bearing   | Bronze<br>Metal polymer compound<br>POM   |
| Collar nut material  | Galvanized steel  |
| Material tie rod   | High alloy steel<br>High alloy steel, non-corrosive   |
| Swivel mounting material                                   | Stainless steel casting   |
| Material bellows   | NBR<br>PA   |