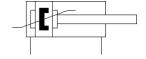
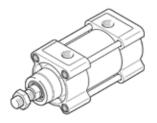
## standards-based cylinder DSBG-80-400-PPSA-N3 Part number: 1646795







## **Data sheet**

| Feature  | Value  |
|--|--|
| Stroke   | 400 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   |
| Operating 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  | 2,370 g  |
| Moving mass with 0 mm stroke                             | 810 g  |
| Additional mass factor per 10 mm of stroke               | 39 g   |
| Product weight   | 6,060 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   | Die-cast aluminium, coated                                       |
| Material piston seal                                     | TPE-U(PU)  |
| Material piston  | Wrought Aluminium 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                                      | Galvanised steel   |
| Material tie rod   | High alloy steel   |