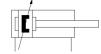
## Standards-based cylinder DSBG-200-50-PPVA-N3 Part number: 2390141







## **Data sheet**

| Feature  | Value  |
|--|--|
| Stroke   | 50 mm  |
| Piston diameter  | 200 mm   |
| Piston rod thread  | M36x2  |
| Cushioning   | PPV: Pneumatic cushioning adjustable at both ends                |
| 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                                   | 0.06 1 MPa   |
| Working pressure   | 0.6 10 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 |
|  | operation)   |
| Corrosion resistance classification CRC                  | 2 - Moderate corrosion stress                                    |
| PWIS conformity  | VDMA24364-B1/B2-L  |
| Ambient temperature                                      | -20 80 °C  |
| Impact energy in end positions                           | 4.8 J  |
| Cushioning length  | 48 mm  |
| Cushioning length, extending                             | 48 mm  |
| Cushioning length, retracting                            | 48 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 18,096 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 18,850 N   |
| Moving mass  | 5,833 g  |
| Moving mass with 0 mm stroke                             | 5,348 g  |
| Additional mass factor per 10 mm of stroke               | 97 g   |
| Product weight   | 16,723 g   |
| Basic weight for 0 mm stroke                             | 15,493 g   |
| Additional weight per 10 mm stroke                       | 246 g  |
| Mounting type  | with internal (female) thread                                    |
|  | with accessories   |
|  | Optional   |
| Pneumatic connection                                     | G3/4   |
| Materials note   | Conforms to RoHS   |
| Material cover   | Coated die-cast aluminium  |
| Material piston seal                                     | NBR  |
| Material piston  | Die-cast aluminium   |
| Material piston rod                                      | High alloy steel   |
| Material piston rod wiper seal                           | NBR  |
| Buffer seal material                                     | TPE-U(PU)  |
| Cushion piston material                                  | POM  |



| Feature                  | Value                                   |
|--------------------------|---|
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |
| Material nut             | steel, galvanized                       |
| Material bearing         | Metal polymer compound                  |
| Collar nut material      | Galvanized steel                        |
| Material tie rod         | High alloy steel                        |