

# ISO cylinder DSBG-50-200-PPVA-N3

Part number: 1646716

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 200 mm   |
| Piston diameter  | 50 mm  |
| Piston rod thread  | M16x1.5  |
| Cushioning   | Pneumatic cushioning, adjustable at both ends  |
| Mounting position  | Any  |
| Conforms to standard   | ISO 15552  |
| Piston-rod end   | Male thread  |
| Design   | Piston<br>Piston rod<br>Tie rod 1<br>Cylinder barrel                                       |
| Position detection   | Via proximity switch   |
| Symbol   | 00991235   |
| Variants   | Piston rod at one end  |
| Operating pressure   | 0.04 MPa ... 1.2 MPa   |
| Operating pressure   | 0.4 bar ... 12 bar   |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L  |
| Cleanroom suitability, measured according to ISO 14644-14    | Class 5 according to ISO 14644-1   |
| Ambient temperature  | -20 °C ... 80 °C   |
| Impact energy in end positions                               | 1 J  |
| Cushioning length  | 22 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 990 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N   |
| Moving mass  | 865 g  |
| Moving mass for 0 mm stroke                                  | 365 g  |
| Additional moving mass per 10 mm stroke                      | 25 g   |
| Product weight   | 2230 g   |
| Basic weight for 0 mm stroke                                 | 1190 g   |
| Additional weight per 10 mm stroke                           | 52 g   |
| Type of mounting   | With female thread<br>With accessories   |

| <b>Feature</b>              | <b>Value</b>                            |
|-----------------------------|---|
| Pneumatic connection        | G1/4                                    |
| Note on materials           | RoHS compliant                          |
| Material cover              | Coated die-cast aluminium               |
| Material piston seal        | TPE-U(PU)                               |
| Material piston             | Wrought aluminium alloy                 |
| Material piston rod         | High-alloy steel                        |
| Material piston rod wiper   | TPE-U(PU)                               |
| Buffer seal material        | TPE-U(PU)                               |
| Material of cushioning boss | POM                                     |
| Material cylinder barrel    | Smooth-anodised wrought aluminium alloy |
| Material nut                | Galvanised steel                        |
| Material bearing            | POM                                     |
| Material collar nut         | Galvanised steel                        |
| Material tie rod            | High-alloy steel                        |