

# ISO cylinder DSBG-200-125-PPVA-N3

Part number: 2390144

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 125 mm   |
| Piston diameter  | 200 mm   |
| Piston rod thread  | M36x2  |
| Cushioning   | Pneumatic cushioning, adjustable at both ends  |
| Mounting position  | optional   |
| Conforms to standard   | ISO 15552  |
| Piston-rod end   | Male thread  |
| Design   | Piston<br>Piston rod<br>Tie rod<br>Cylinder barrel   |
| Position detection   | Via proximity switch   |
| Symbol   | 00991235   |
| Variants   | Piston rod at one end  |
| Operating pressure   | 0.06 MPa ... 1 MPa   |
| Operating pressure   | 0.6 bar ... 10 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  |
| Ambient temperature  | -20 °C ... 80 °C   |
| Impact energy in end positions                               | 4.8 J  |
| Cushioning length  | 48 mm  |
| Cushioning length, advance stroke                            | 48 mm  |
| Cushioning length, return stroke                             | 48 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 18096 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 18850 N  |
| Moving mass  | 6561 g   |
| Moving mass for 0 mm stroke                                  | 5348 g   |
| Additional moving mass per 10 mm stroke                      | 97 g   |
| Product weight   | 18568 g  |
| Basic weight for 0 mm stroke                                 | 15493 g  |
| Additional weight per 10 mm stroke                           | 246 g  |

| <b>Feature</b>             | <b>Value</b>                                     |
|----------------------------|--|
| Type of mounting           | Either:<br>Via female thread<br>With accessories |
| Pneumatic connection       | G3/4   |
| Note on materials          | RoHS-compliant                                   |
| Material cover             | Cast aluminium, coated                           |
| Material piston seal       | NBR  |
| Material piston            | Cast aluminium                                   |
| Material piston rod        | High-alloy steel                                 |
| Material piston rod wiper  | NBR  |
| Buffer seal material       | TPE-U(PU)  |
| Cushioning piston material | POM  |
| Material cylinder barrel   | Smooth-anodised wrought aluminium alloy          |
| Material nut               | Galvanised steel                                 |
| Material bearing           | Metal polymer compound                           |
| Material collar nut        | Galvanised steel                                 |
| Material tie rod           | High-alloy steel                                 |