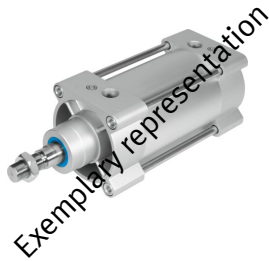


ISO cylinder DSBG-...-125- -

Part number: 2045493

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|----------------------|---|
| Stroke | 1 mm ... 2800 mm |
| Piston diameter | 125 mm |
| Piston rod thread | M16x1.5 M16 |
| Based on standard | ISO 15552 |
| Cushioning | Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends |
| Mounting position | Any |
| Conforms to standard | ISO 15552 |
| Piston-rod end | Male thread Female thread |
| Design | Piston Piston rod Tie rod 1 Cylinder barrel |
| Position detection | Via proximity switch |
| Symbol | 00991217 00991218 00991235 00991237 00992970 00992971 |
| Variants | Advancing stroke adjustment Weld spatter protection Extended male piston rod thread Piston rod with female thread Piston rod with external hexagon Low friction for balancer applications Metal scraper Module for reaching a specific end position in case of a pressure failure Reinforced piston rod Uniform, slow movement Low friction Through, hollow piston rod Variable stud bolt length Temperature range 0 to 150°C Temperature range -40 to 80°C Additional PTFE piston guide |
| Operating pressure | 0.005 MPa ... 1 MPa |
| Operating pressure | 0.05 bar ... 10 bar |
| Mode of operation | Double-acting |

| Feature | Value |
|--|---|
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T4 Gb |
| Explosion ignition protection type for dust | Ex h IIIC T120°C Db |
| Explosion ambient temperature | -20°C ≤ Ta ≤ +60°C |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| 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 3 - high corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L VDMA24364 zone III |
| Ambient temperature | -40 °C ... 150 °C |
| Impact energy in end positions | 2.6 J ... 3.3 J |
| Cushioning length | 42 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 6881 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 6881 N ... 7363 N |
| Additional weight per piston rod extension of 10 mm | 63 g |
| Additional weight per piston rod thread extension of 10 mm | 41 g |
| Type of mounting | With female thread With accessories |
| Pneumatic connection | G1/2 |
| Note on materials | RoHS compliant |
| Material cover | Coated die-cast aluminium |
| Material piston seal | Fluoro rubber HNBR TPE-U(PU) |
| Material piston | Wrought aluminium alloy |
| Material piston rod | High-alloy stainless steel, hard chrome-plated High-alloy steel High-alloy stainless steel |
| Material piston rod wiper | Fluoro rubber HNBR Packaging unit TPE-U(PU) |
| Buffer seal material | Fluoro rubber TPE-U(PU) |
| Material of cushioning boss | Wrought aluminium alloy POM |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |
| Material nut | Galvanised steel High-alloy stainless steel |
| Material rod wiper | Brass PTFE-reinforced |
| Material bearing | Bronze Metal polymer compound POM |
| Material collar nut | Galvanised steel |
| Material tie rod | High-alloy steel High-alloy stainless steel |

| Feature | Value |
|--------------------------|---------------------------------------|
| Material spacer bolt | High-alloy stainless steel |
| Material swivel mounting | Painted spheroidal graphite cast iron |