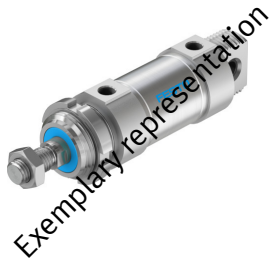


Round cylinder DSNU-50- -

Part number: 193994

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|--|
| Stroke | 1 mm ... 500 mm |
| Piston diameter | 50 mm |
| Cushioning | Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends |
| Mounting position | optional |
| Design | Piston Piston rod Cylinder barrel |
| Position detection | Via proximity switch |
| Variants | Extended male piston rod thread Piston rod with female thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Clamping unit on the piston rod Axial supply port With direct mounting Lateral supply port Metal scraper With protection against rotation High corrosion protection Dust protection Uniform, slow movement Low friction Through piston rod Heat-resistant seals max. 120°C Piston rod at one end |
| Protection against torque/guide | Square piston rod |
| Operating pressure | 0.1 MPa ... 1 MPa |
| Operating pressure | 1 bar ... 10 bar |
| Mode of operation | Double-acting |
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |

| Feature | Value |
|--|--|
| 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 |
| 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 | -20 °C ... 120 °C |
| Impact energy in end positions | 0.5 J ... 1 J |
| Cushioning length | 20 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 for 0 mm stroke | 413 g |
| Additional moving mass per 10 mm stroke | 25 g |
| Basic weight for 0 mm stroke | 1087 g |
| Additional weight per 10 mm stroke | 40 g |
| Type of mounting | With accessories |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Material cover | Wrought aluminium alloy |
| Material seals | NBR TPE-U(PU) |
| Material piston rod | High-alloy stainless steel |
| Material cylinder barrel | High-alloy stainless steel |