

# ISO cylinder DSNU-20- -

Part number: 193990



General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature   | Value   |
|---|---|
| Stroke  | 1 mm ... 320 mm   |
| Piston diameter                                   | 20 mm   |
| Cushioning  | Elastic cushioning rings/plates at both ends<br>Self-adjusting pneumatic end-position cushioning<br>Pneumatic cushioning, adjustable at both ends   |
| Mounting position                                 | optional  |
| Conforms to standard                              | ISO 6432  |
| Design  | Piston<br>Piston rod<br>Cylinder barrel   |
| Position detection                                | Via proximity switch  |
| Variants  | Weld spatter protection<br>Extended male piston rod thread<br>Custom thread on the piston rod<br>Piston rod with external hexagon<br>Additional slide, standard, on left<br>Low friction for balancer applications<br>Bearing cap without mounting thread<br>Swivelling rod eye mounting on the end cap<br>Module for reaching a specific end position in case of a pressure failure<br>Transverse load increased<br>Low friction<br>Through, hollow piston rod<br>Additional PTFE piston guide |
| 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)<br>EPL Gb (GB)  |
| Explosion protection                              | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX)   |
| ATEX category gas                                 | II 2G   |
| ATEX category dust                                | II 2D   |
| Explosion ignition protection type for gas        | Ex h IIC T4 Gb  |

| Feature  | Value  |
|--|--|
| 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<br>3 - high corrosion stress                                 |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L<br>VDMA24364 zone III  |
| Ambient temperature  | -20 °C ... 120 °C  |
| Impact energy in end positions                               | 0.1 J ... 0.2 J  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 158 N ... 189 N  |
| Type of mounting   | With accessories   |
| Pneumatic connection   | G1/8   |
| Note on materials  | RoHS-compliant   |
| Material cover   | Wrought aluminium alloy  |
| Material seals   | NBR<br>TPE-U(PU)   |
| Material piston rod  | High-alloy stainless steel   |
| Material cylinder barrel                                     | High-alloy stainless steel   |