

# ISO cylinder DSNU-8- -

Part number: 193986

**FESTO**



## Data sheet

| Feature                                           | Value                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                            | 1 mm...100 mm                                                                                                                                                                                                                                                                                                                                                                                             |
| Piston diameter                                   | 8 mm                                                                                                                                                                                                                                                                                                                                                                                                      |
| Cushioning                                        | Elastic cushioning rings/pads at both ends                                                                                                                                                                                                                                                                                                                                                                |
| Mounting position                                 | Any                                                                                                                                                                                                                                                                                                                                                                                                       |
| Conforms to standard                              | CETOP RP 52 P<br>ISO 6432                                                                                                                                                                                                                                                                                                                                                                                 |
| Structural design                                 | Piston<br>Piston rod<br>Cylinder barrel                                                                                                                                                                                                                                                                                                                                                                   |
| Position sensing                                  | Via proximity switch                                                                                                                                                                                                                                                                                                                                                                                      |
| Variants                                          | Stroke adjustment advancing<br>Weld spatter protection<br>Special thread on piston rod<br>Piston rod with external hexagon<br>Additional slide, standard, on left<br>Low friction for balancer applications<br>Bearing cover without mounting thread<br>Swiveling rod eye mounting on the end cap<br>Uniform, slow movement<br>Low friction<br>Through, hollow piston rod<br>Additional PTFE piston guide |
| Operating pressure                                | 0.15 MPa...1 MPa<br>1.5 bar...10 bar                                                                                                                                                                                                                                                                                                                                                                      |
| Mode of operation                                 | Double-acting                                                                                                                                                                                                                                                                                                                                                                                             |
| CE marking (see declaration of conformity)        | as per EU explosion protection directive (ATEX)                                                                                                                                                                                                                                                                                                                                                           |
| UKCA marking (see declaration of conformity)      | acc. to UK EX instructions                                                                                                                                                                                                                                                                                                                                                                                |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB)                                                                                                                                                                                                                                                                                                                                                                                |
| Explosion prevention and 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 for dust                            | II 2D                                                                                                                                                                                                                                                                                                                                                                                                     |

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Type of ignition protection for gas      | Ex h IIC T4 Gb                                                     |
| Type of (ignition) protection for dust   | Ex h IIIC T120°C Db                                                |
| Explosive ambient temperature            | -20°C ≤ Ta ≤ +60°C                                                 |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)         | 2 - Moderate corrosion stress<br>3 - High corrosion stress         |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                  |
| Ambient temperature                      | -20 °C...120 °C                                                    |
| Impact energy in the end positions       | 0.015 J...0.03 J                                                   |
| Theoretical force at 6 bar, advancing    | 23 N...30 N                                                        |
| Type of mounting                         | With accessories                                                   |
| Pneumatic connection                     | M5                                                                 |
| Note on materials                        | RoHS compliant                                                     |
| Cover material                           | Wrought aluminum alloy                                             |
| Seals material                           | NBR<br>TPE-U(PU)                                                   |
| Piston rod material                      | high-alloy stainless steel                                         |
| Material of cylinder barrel              | high-alloy stainless steel                                         |