

# ISO cylinder CRDSNU-12-

Part number: 552787

**FESTO**



General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                           | Value                                                                                                                                                                                                                                         |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                            | 1 mm ... 200 mm                                                                                                                                                                                                                               |
| Piston diameter                                   | 12 mm                                                                                                                                                                                                                                         |
| Piston rod thread                                 | M6                                                                                                                                                                                                                                            |
| Based on norm                                     | ISO 6432                                                                                                                                                                                                                                      |
| Cushioning                                        | Elastic cushioning rings/pads at both ends                                                                                                                                                                                                    |
| Mounting position                                 | Any                                                                                                                                                                                                                                           |
| Piston rod end                                    | External thread                                                                                                                                                                                                                               |
| Structural design                                 | Piston<br>Piston rod<br>Cylinder barrel                                                                                                                                                                                                       |
| Position sensing                                  | For proximity sensor                                                                                                                                                                                                                          |
| Variants                                          | Extended external thread piston rod<br>Extended piston rod<br>Bearing cover without mounting thread<br>Lateral supply port<br>Through piston rod<br>Heat-resistant seals max. 120°C<br>Temperature range -40 to 80°C<br>Piston rod at one end |
| Operating pressure                                | 0.1 MPa ... 1 MPa                                                                                                                                                                                                                             |
| Operating pressure                                | 1 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                                                                                                                                                                                                                                         |
| 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)                                                                                                                                                                            |

| Feature                                 | Value                                |
|-----------------------------------------|--------------------------------------|
| Corrosion resistance class (CRC)        | 3 - High corrosion stress            |
| LABS (PWIS) conformity                  | VDMA24364-B2-L<br>VDMA24364 zone III |
| For use in the food industry            | See declaration of conformity        |
| Ambient temperature                     | -40 °C ... 120 °C                    |
| Theoretical force at 6 bar, retracting  | 51 N                                 |
| Theoretical force at 6 bar, advancing   | 68 N                                 |
| Moving mass at 0 mm stroke              | 19 g                                 |
| Additional moving mass per 10 mm stroke | 2 g                                  |
| Basic weight with 0 mm stroke           | 101 g                                |
| Additional weight per 10 mm stroke      | 4 g                                  |
| Type of mounting                        | With accessories                     |
| Pneumatic connection                    | M5                                   |
| Note on materials                       | RoHS-compliant                       |
| Cover material                          | High-alloy stainless steel           |
| Piston rod material                     | High-alloy stainless steel           |
| Material of cylinder barrel             | High-alloy stainless steel           |