

# Semi-rotary drive DRVS-12-180-P-EX4

Part number: 2536488

**FESTO**



 General operating condition

## Data sheet

| Feature                                           | Value                                                                                                 |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Size                                              | 12                                                                                                    |
| Cushioning angle                                  | 0.5 deg                                                                                               |
| Swivel angle                                      | 0 deg ... 180 deg                                                                                     |
| Permissible stop radius                           | 15 mm                                                                                                 |
| Cushioning                                        | Elastic cushioning rings/plates at both ends                                                          |
| Mounting position                                 | optional                                                                                              |
| Mode of operation                                 | Double-acting                                                                                         |
| Design                                            | Vane                                                                                                  |
| Position detection                                | Via proximity switch                                                                                  |
| Symbol                                            | 00991265                                                                                              |
| Variants                                          | Spigot shaft                                                                                          |
| Operating pressure                                | 0.25 MPa ... 0.8 MPa                                                                                  |
| Operating pressure                                | 2.5 bar ... 8 bar                                                                                     |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)  | 3 Hz                                                                                                  |
| Repetition accuracy                               | 1 deg                                                                                                 |
| 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 X                                                                                      |
| Explosion ignition protection type for dust       | Ex h IIIC T120°C Db X                                                                                 |
| Explosion ambient temperature                     | 0 °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                    | 1 - Low corrosion stress                                                                              |
| LABS (PWIS) conformity                            | VDMA24364-B2-L                                                                                        |

| Feature                                            | Value                                                                                                                                                    |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitability for the production of Li-ion batteries | Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class                                    | Class 5 according to ISO 14644-1                                                                                                                         |
| Ambient temperature                                | 0 °C ... 60 °C                                                                                                                                           |
| Max. stop force                                    | 90 N                                                                                                                                                     |
| Max. axial force                                   | 20 N                                                                                                                                                     |
| Max. radial force                                  | 25 N                                                                                                                                                     |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi)      | 1 Nm                                                                                                                                                     |
| Permissible mass moment of inertia                 | 0.005 kgm <sup>2</sup>                                                                                                                                   |
| Product weight                                     | 152 g                                                                                                                                                    |
| Type of mounting                                   | Via female thread                                                                                                                                        |
| Pneumatic connection                               | M5                                                                                                                                                       |
| Note on materials                                  | RoHS-compliant                                                                                                                                           |
| Material drive shaft                               | High-alloy stainless steel                                                                                                                               |
| Material seals                                     | TPE-U(PU)                                                                                                                                                |
| Material housing                                   | Painted die cast aluminium                                                                                                                               |