

# Semi-rotary drive DRVS-8-90-P-EX4

Part number: 2536485

FESTO



 General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Size   | 8   |
| Cushioning angle                                   | 0.5 deg   |
| Swivel angle                                       | 0 deg ... 90 deg  |
| Permissible stop radius                            | ≥10 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                                 | 0.35 MPa ... 0.8 MPa  |
| Operating pressure                                 | 3.5 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  |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)                                    |

| <b>Feature</b>  | <b>Value</b>                     |
|---|----------------------------------|
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1 |
| Ambient temperature                                       | 0 °C ... 60 °C                   |
| Max. stop force   | 30 N                             |
| Max. axial force  | 10 N                             |
| Max. radial force   | 20 N                             |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi)             | 0.35 Nm                          |
| Permissible mass moment of inertia                        | 0.0013 kgm <sup>2</sup>          |
| Product weight  | 68 g                             |
| Type of mounting  | Via female thread                |
| Pneumatic connection                                      | M3                               |
| Note on materials   | RoHS-compliant                   |
| Material drive shaft                                      | High-alloy stainless steel       |
| Material seals  | TPE-U(PU)                        |
| Material housing  | Anodised wrought aluminium alloy |