

# Rotary actuator DRVS-40-180-P-EX4

Part number: 2536500

**FESTO**



 General operating condition

## Data sheet

| Feature                                            | Value                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Size                                               | 40                                                                                                    |
| Cushioning angle                                   | 0.5 deg                                                                                               |
| Swivel angle                                       | 0 deg ... 180 deg                                                                                     |
| Permissible stop radius                            | ≥40 mm                                                                                                |
| Cushioning                                         | Elastic cushioning rings/pads at both ends                                                            |
| Mounting position                                  | Any                                                                                                   |
| Mode of operation                                  | Double-acting                                                                                         |
| Structural design                                  | Rotary vane                                                                                           |
| Position sensing                                   | For proximity sensor                                                                                  |
| Symbol                                             | 00991265                                                                                              |
| Variants                                           | Spigot shaft                                                                                          |
| Operating pressure                                 | 0.2 MPa ... 0.8 MPa                                                                                   |
| Operating pressure                                 | 2 bar ... 8 bar                                                                                       |
| Max. swivel frequency at 6 bar                     | 3 Hz                                                                                                  |
| Repetition accuracy                                | 1 deg                                                                                                 |
| 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 X                                                                                      |
| Type of (ignition) protection for dust             | Ex h IIIC T120°C Db X                                                                                 |
| Explosive ambient temperature                      | 0°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)                   | 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)                                    |
| Cleanroom class                                    | Class 5 according to ISO 14644-1                                                                      |

| Feature                            | Value                      |
|------------------------------------|----------------------------|
| Ambient temperature                | 0 °C ... 60 °C             |
| Max. stop force                    | 650 N                      |
| Max. axial force                   | 120 N                      |
| Max. radial force                  | 350 N                      |
| Theoretical torque at 6 bar        | 20 Nm                      |
| Permissible mass moment of inertia | 0.035 kgm <sup>2</sup>     |
| Product weight                     | 1500 g                     |
| Type of mounting                   | With internal thread       |
| Pneumatic connection               | G1/8                       |
| Note on materials                  | RoHS-compliant             |
| Drive shaft material               | Steel, nickel-plated       |
| Seals material                     | TPE-U(PU)                  |
| Housing material                   | Die cast aluminum, painted |