

# Rotary actuator DRVS-40-90-P-EX4

Part number: 2536499

FESTO



 General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Size  | 40  |
| Cushioning angle  | 0.5 deg   |
| Swivel angle  | 0 deg ... 90 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 suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1  |

| <b>Feature</b>                     | <b>Value</b>               |
|------------------------------------|----------------------------|
| 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                     | 1530 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 |