

# Semi-rotary drive DRRS-20-180-FH-Y9A

Part number: 8163612

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 20   |
| Cushioning angle                                    | 32.8 deg   |
| Setting range of swivel angle for each end position | +10 /-100 deg  |
| Axial eccentricity of plate                         | 0.07 mm  |
| Swivel angle  | 180 deg  |
| Min. swivel angle                                   | 80 deg   |
| Max. swivel angle                                   | 200 deg  |
| Cushioning  | Internal hydraulic cushioning normal   |
| Mounting position                                   | Any  |
| Structural design                                   | Gear rack/pinion   |
| Position sensing                                    | For proximity sensor   |
| Operating pressure                                  | 0.2 MPa...0.8 MPa<br>2 bar...8 bar   |
| Repetition accuracy                                 | 0.07 deg   |
| Mode of operation                                   | Double-acting  |
| 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-C1-L   |
| Suitability for the production of Li-ion batteries  | Suitable for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class                                     | Class 9 according to ISO 14644-1   |
| Storage temperature                                 | -20 °C...60 °C   |
| Ambient temperature                                 | 0 °C...60 °C   |
| Theoretical torque at 6 bar                         | 3.3 Nm   |
| Permissible mass moment of inertia                  | 0.3 kgm <sup>2</sup>   |
| Max. bending moment                                 | 5 Nm   |
| Max. axial load static                              | 350 N  |
| Product weight                                      | 790 g  |

| Feature               | Value   |
|-----------------------|---|
| Type of mounting      | Optionally:<br>With mounting kit<br>With through-hole<br>With internal thread |
| Pneumatic connection  | M5  |
| Note on materials     | RoHS-compliant  |
| Drive shaft material  | Tempered steel  |
| Seals material        | NBR<br>TPE-U(PU)  |
| Housing material      | Aluminum, anodized  |
| Flange shaft material | Wrought aluminum alloy  |
| Pinion material       | Tempered steel  |