

# Radial gripper DHRS-10-A

Part number: 1310159

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value   |
|---|---|
| Size  | 10  |
| Max. replacement accuracy                                 | ≤0.2 mm   |
| Max. opening angle  | 180 deg   |
| Rotationally symmetrical                                  | ≤0.2 mm   |
| Repetition accuracy, gripper                              | ≤0.1 mm   |
| Number of gripper jaws                                    | 2   |
| Mounting position   | optional  |
| Mode of operation   | Double-acting   |
| Gripper function  | Radial  |
| Design  | Force pilot operated motion sequence  |
| Position detection  | Via Hall sensor   |
| Symbol  | 00991894  |
| Operating pressure  | 2 bar ... 8 bar   |
| Max. operating frequency of gripper                       | ≤4 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)              | 35 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)              | 91 ms   |
| 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        | Metals with more than 5% by mass of copper are excluded from use. Exceptions are printed circuit boards, cables, electrical connectors and coils. |
| Ambient temperature                                       | 5 °C ... 60 °C  |
| Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening | 21 Ncm  |
| Total gripper torque, closing, 0.6 MPa (6 bar, 87 psi)    | 15 Ncm  |
| Mass moment of inertia                                    | 0.03 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static                       | 30 N  |
| Max. torque at gripper Mx static                          | 0.8 Nm  |
| Max. torque at gripper My static                          | 0.8 Nm  |
| Max. torque at gripper Mz static                          | 0.8 Nm  |
| Product weight  | 44 g  |
| Type of mounting  | Either:<br>Via female thread and centring sleeve<br>Via through-hole and centring sleeve  |

| <b>Feature</b>        | <b>Value</b>                          |
|-----------------------|---------------------------------------|
| Pneumatic connection  | M3                                    |
| Note on materials     | RoHS-compliant                        |
| Material cover cap    | PA                                    |
| Material housing      | Hard anodised wrought aluminium alloy |
| Material gripper jaws | High-alloy steel                      |