

# Radial gripper HGRT-16-A

Part number: 563904

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 16   |
| Max. replacement accuracy                                 | ≤0.2 mm  |
| Max. angular gripper jaw backlash ax, ay                  | ≤0.1 deg   |
| Max. opening angle  | 180 deg  |
| Rotationally symmetrical                                  | ≤0.2 mm  |
| Repetition accuracy, gripper                              | ≤0.02 mm   |
| Number of gripper jaws                                    | 2  |
| Mounting position   | Any  |
| Mode of operation   | Double-acting  |
| Gripper function  | Radial   |
| Design  | Force pilot operated motion sequence   |
| Position detection  | Via proximity switch<br>For inductive sensors  |
| Symbol  | 00991894   |
| Operating pressure  | 3 bar ... 8 bar  |
| Max. operating frequency of gripper                       | ≤3 Hz  |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)              | 246 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)              | 293 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-B1/B2-L  |
| Ambient temperature                                       | 5 °C ... 60 °C   |
| Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening | 188 Ncm  |
| Total gripper torque, closing, 0.6 MPa (6 bar, 87 psi)    | 158 Ncm  |
| Mass moment of inertia                                    | 0.191 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static                       | 50 N   |
| Max. torque at gripper My static                          | 3.9 Nm   |
| Max. torque at gripper Mz static                          | 0.3 Nm   |
| Lubrication interval for guide components                 | 10 MioCyc  |
| Product weight  | 130 g  |
| Type of mounting  | Via female thread and centring sleeve  |
| Pneumatic connection                                      | M3   |
| Note on materials   | RoHS compliant   |

| <b>Feature</b>        | <b>Value</b>                            |
|-----------------------|---|
| Material housing      | Smooth-anodised wrought aluminium alloy |
| Material gripper jaws | Hardened steel                          |