

# Radial gripper HGRT-40-A

Part number: 563912

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 40   |
| Max. interchangeability                                   | 0.2 mm   |
| Max. gripper jaw angular play ax, ay                      | 0.1 deg  |
| Max. opening angle  | 180 deg  |
| Rotational symmetry                                       | 0.2 mm   |
| Pneumatic gripper repetition accuracy                     | 0.02 mm  |
| Number of gripper jaws                                    | 2  |
| Mounting position   | Any  |
| Mode of operation   | Double-acting  |
| Gripper function  | Radial   |
| Structural design   | Positively driven motion sequence                                  |
| Position sensing  | For proximity sensor<br>For inductive proximity sensors            |
| Operating pressure  | 3 bar...8 bar  |
| Max. operating frequency of pneumatic gripper             | 2 Hz   |
| Min. opening time at 6 bar                                | 283 ms   |
| Min. closing time at 6 bar                                | 320 ms   |
| 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-B1/B2-L  |
| Ambient temperature                                       | 5 °C...60 °C   |
| Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening | 3892 Ncm   |
| Total gripping torque at 6 bar, closing                   | 3526 Ncm   |
| Mass moment of inertia                                    | 13.87 kgcm <sup>2</sup>  |
| Maximum force on gripper jaw Fz, static                   | 400 N  |
| Maximum torque on gripper jaw, My static                  | 17.5 Nm  |
| Maximum torque on gripper jaw, Mz static                  | 1.6 Nm   |
| Relubrication interval for guidance elements              | 10 MioCyc  |
| Product weight  | 1580 g   |
| Type of mounting  | With internal thread and centering sleeve                          |
| Pneumatic connection                                      | G1/8   |

| Feature              | Value                                   |
|----------------------|---|
| Note on materials    | RoHS-compliant                          |
| Housing material     | Wrought aluminum alloy, smooth-anodized |
| Gripper jaw material | Hardened steel                          |