

# Radial gripper HGRT-32-A

Part number: 563910

FESTO



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Size                                                      | 32                                                                 |
| 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                                          | Via proximity switch<br>For inductive sensors                      |
| Operating pressure                                        | 3 bar...8 bar                                                      |
| Max. operating frequency of pneumatic gripper             | 3 Hz                                                               |
| Min. opening time at 6 bar                                | 359 ms                                                             |
| Min. closing time at 6 bar                                | 403 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 | 2024 Ncm                                                           |
| Total gripping torque at 6 bar, closing                   | 1856 Ncm                                                           |
| Mass moment of inertia                                    | 4.62 kgcm <sup>2</sup>                                             |
| Maximum force on gripper jaw Fz, static                   | 280 N                                                              |
| Maximum torque on gripper jaw, My static                  | 13.5 Nm                                                            |
| Maximum torque on gripper jaw, Mz static                  | 1.3 Nm                                                             |
| Relubrication interval for guidance elements              | 10 MioCyc                                                          |
| Product weight                                            | 840 g                                                              |
| Type of mounting                                          | With internal thread and centering sleeve                          |
| Pneumatic connection                                      | M5                                                                 |

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