

# Radial gripper DHRS-40-A

Part number: 1310166

FESTO



## Data sheet

| Feature                                                   | Value                                                                                                                                            |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                                      | 40                                                                                                                                               |
| Max. interchangeability                                   | 0.2 mm                                                                                                                                           |
| Max. opening angle                                        | 180 deg                                                                                                                                          |
| Rotational symmetry                                       | 0.2 mm                                                                                                                                           |
| Pneumatic gripper repetition accuracy                     | 0.1 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                                                                                                                             |
| Operating pressure                                        | 2 bar...8 bar                                                                                                                                    |
| Max. operating frequency of pneumatic gripper             | 2 Hz                                                                                                                                             |
| Min. opening time at 6 bar                                | 113 ms                                                                                                                                           |
| Min. closing time at 6 bar                                | 142 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-B2-L                                                                                                                                   |
| Suitability for the production of Li-ion batteries        | Metals with more than 5% by mass of copper are excluded from use. This excludes 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 | 725 Ncm                                                                                                                                          |
| Total gripping torque at 6 bar, closing                   | 660 Ncm                                                                                                                                          |
| Mass moment of inertia                                    | 4.18 kgcm <sup>2</sup>                                                                                                                           |
| Maximum force on gripper jaw Fz, static                   | 200 N                                                                                                                                            |
| Maximum torque on gripper jaw, Mx static                  | 14 Nm                                                                                                                                            |
| Maximum torque on gripper jaw, My static                  | 14 Nm                                                                                                                                            |
| Maximum torque on gripper jaw, Mz static                  | 14 Nm                                                                                                                                            |
| Product weight                                            | 829 g                                                                                                                                            |
| Type of mounting                                          | Alternatively:                                                                                                                                   |

| Feature              | Value                                                                              |
|----------------------|------------------------------------------------------------------------------------|
|                      | With internal thread and centering sleeve<br>Via through-hole and centering sleeve |
| Pneumatic connection | G1/8                                                                               |
| Note on materials    | RoHS compliant                                                                     |
| Cover cap material   | PA                                                                                 |
| Housing material     | Wrought aluminum alloy, hard-anodized                                              |
| Gripper jaw material | High-alloy steel                                                                   |