

# Angle gripper DHC-10-A

Part number: 8125481

FESTO



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Size                                                      | 10                                                                 |
| Max. interchangeability                                   | 0.2 mm                                                             |
| Max. opening angle                                        | 30 deg                                                             |
| Rotational symmetry                                       | 0.2 mm                                                             |
| Pneumatic gripper repetition accuracy                     | 0.1 mm                                                             |
| Number of gripper jaws                                    | 2                                                                  |
| Actuator system                                           | Pneumatic                                                          |
| Mounting position                                         | Any                                                                |
| Mode of operation                                         | Double-acting                                                      |
| Gripper function                                          | Bracket                                                            |
| Gripping force backup                                     | None                                                               |
| Structural design                                         | Lateral connection direction<br>Positively driven motion sequence  |
| Position sensing                                          | Via proximity switch                                               |
| Operating pressure                                        | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>14.5 psi...116 psi           |
| Max. operating frequency of pneumatic gripper             | 3 Hz                                                               |
| Min. opening time at 6 bar                                | 8 ms                                                               |
| Min. closing time at 6 bar                                | 8 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)                          | 0 - No corrosion stress                                            |
| LABS (PWIS) conformity                                    | VDMA24364-B2-L                                                     |
| Suitability for the production of Li-ion batteries        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Ambient temperature                                       | -10 °C...60 °C                                                     |
| Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening | 25.1 Ncm                                                           |
| Total gripping torque at 6 bar, closing                   | 20.6 Ncm                                                           |
| Mass moment of inertia                                    | 0.035 kgcm <sup>2</sup>                                            |
| Maximum force on gripper jaw Fz, static                   | 40 N                                                               |
| Maximum torque on gripper jaw, Mx static                  | 0.4 Nm                                                             |
| Maximum torque on gripper jaw, My static                  | 0.5 Nm                                                             |

| Feature                                  | Value                                                                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum torque on gripper jaw, Mz static | 0.5 Nm                                                                                                                                                     |
| Product weight                           | 48 g                                                                                                                                                       |
| Type of mounting                         | Alternatively:<br>Direct mounting via through-hole<br>Direct fastening via thread<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Pneumatic connection                     | M3                                                                                                                                                         |
| Note on materials                        | RoHS compliant                                                                                                                                             |
| Cover cap material                       | Wrought aluminum alloy, anodized                                                                                                                           |
| Housing material                         | Wrought aluminum alloy, anodized                                                                                                                           |
| Gripper jaw material                     | High-alloy steel                                                                                                                                           |