

# Parallel gripper DHPC-16-A-S

Part number: 8116785

FESTO



## Data sheet

| Feature                                       | Value  |
|---|--|
| Size  | 16   |
| Stroke per gripper jaw                        | 3 mm   |
| Max. interchangeability                       | 0.2 mm   |
| Max. gripper jaw angular play ax, ay          | 0 deg  |
| Max. gripper jaw backlash Sz                  | 0 mm   |
| Rotational symmetry                           | 0.2 mm   |
| Pneumatic gripper repetition accuracy         | 0.02 mm  |
| Number of gripper jaws                        | 2  |
| Actuator system                               | Pneumatic  |
| Mounting position                             | Any  |
| Mode of operation                             | Double-acting  |
| Gripper function                              | Parallel   |
| Gripping force backup                         | Without  |
| Structural design                             | Connection direction at side<br>Lever<br>Standard mounting type for gripper fingers<br>Positively driven motion sequence   |
| Guide   | Ball guide   |
| Position sensing                              | For proximity sensor   |
| Variants                                      | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| 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                    | 29 ms  |
| Min. closing time at 6 bar                    | 31 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   |

| Feature  | Value   |
|--|---|
| Suitability for the production of Li-ion batteries   | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Ambient temperature                                  | -10 °C...60 °C  |
| Gripping force per gripper jaw at 6 bar, opening     | 125.4 N<br>62.7 N   |
| Gripping force per gripper jaw at 6 bar, closing     | 107.8 N<br>53.9 N   |
| Mass moment of inertia                               | 0.146 kgcm <sup>2</sup>   |
| Maximum force on gripper jaw F <sub>z</sub> , static | 84 N  |
| Maximum torque on gripper jaw, M <sub>x</sub> static | 0.94 Nm   |
| Maximum torque on gripper jaw, M <sub>y</sub> static | 0.71 Nm   |
| Maximum torque on gripper jaw, M <sub>z</sub> static | 0.71 Nm   |
| Product weight                                       | 110 g   |
| Type of mounting                                     | Direct mounting via through-hole<br>Direct fastening via thread<br>With through-hole and dowel pin<br>With internal thread and dowel pin<br>Optionally:   |
| Pneumatic connection                                 | M3  |
| Note on materials                                    | RoHS-compliant  |
| Housing material                                     | Aluminum, anodized  |
| Gripper jaw material                                 | High-alloy stainless steel  |