

# Parallel gripper DHPC-L-20-A-NO-S-1

Part number: 8116842

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 20   |
| Stroke per gripper jaw                             | 9 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                                  | Single-acting<br>Open  |
| Gripper function                                   | Parallel   |
| Gripping force backup                              | On opening   |
| Structural design                                  | Connection direction at side<br>Lever<br>Side mounting type for gripper fingers<br>Positively driven motion sequence |
| Guide  | Ball guide   |
| Position sensing                                   | For proximity sensor   |
| Symbol   | 00997349   |
| Operating pressure                                 | 0.25 MPa ... 0.8 MPa   |
| Operating pressure                                 | 2.5 bar ... 8 bar  |
| Operating pressure                                 | 36.25 psi ... 116 psi  |
| Max. operating frequency of pneumatic gripper      | 3 Hz   |
| Min. opening time at 6 bar                         | 156 ms   |
| Min. closing time at 6 bar                         | 51 ms  |
| Max. mass per external gripper finger              | 110 g  |
| 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   |
| Gripping force per gripper jaw at 6 bar, closing   | 139.4 N  |
| Gripping force per gripper jaw at 6 bar, closing   | 69.7 N   |

| Feature                                  | Value  |
|--|--|
| Mass moment of inertia                   | 0.764 kgcm <sup>2</sup>  |
| Maximum force on gripper jaw Fz, static  | 101.3 N  |
| Maximum torque on gripper jaw, Mx static | 1.43 Nm  |
| Maximum torque on gripper jaw, My static | 1.3 Nm   |
| Maximum torque on gripper jaw, Mz static | 1.3 Nm   |
| Product weight                           | 261 g  |
| Type of mounting                         | Optionally:<br>Direct mounting via through-hole<br>Direct fastening via thread<br>On mounting frame<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Pneumatic connection                     | M5   |
| Note on materials                        | RoHS-compliant   |
| Housing material                         | Aluminum, anodized   |
| Gripper jaw material                     | High-alloy stainless steel   |