

# Parallel gripper DHPC-L-16-A-B-1

Part number: 8116807

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 16   |
| Stroke per gripper jaw                             | 6 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                              | None   |
| Structural design                                  | Connection direction underneath<br>Lever<br>Side mounting type for gripper fingers<br>Positively driven motion sequence  |
| Guide  | Ball guide   |
| Position sensing                                   | Via proximity switch   |
| Symbol   | 00991894   |
| 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  |
| Operating pressure                                 | 1 bar ... 8 bar  |
| Operating pressure                                 | 14.5 psi ... 116 psi   |
| Max. operating frequency of pneumatic gripper      | 3 Hz   |
| Min. opening time at 6 bar                         | 40 ms  |
| Min. closing time at 6 bar                         | 40 ms  |
| Max. mass per external gripper finger              | 50 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   |

| Feature  | Value  |
|--|--|
| Gripping force per gripper jaw at 6 bar, opening | 125.4 N  |
| Gripping force per gripper jaw at 6 bar, closing | 107.8 N  |
| Gripping force per gripper jaw at 6 bar, opening | 62.7 N   |
| Gripping force per gripper jaw at 6 bar, closing | 53.9 N   |
| Mass moment of inertia                           | 0.215 kgcm <sup>2</sup>  |
| Maximum force on gripper jaw Fz, static          | 84 N   |
| Maximum torque on gripper jaw, Mx static         | 0.94 Nm  |
| Maximum torque on gripper jaw, My static         | 0.71 Nm  |
| Maximum torque on gripper jaw, Mz static         | 0.71 Nm  |
| Product weight                                   | 124 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   |
| Housing material                                 | Anodized aluminum  |
| Gripper jaw material                             | high-alloy stainless steel   |