

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

Part number: 8116807

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 16   |
| Stroke per gripper jaw  | 6 mm   |
| Max. replacement accuracy   | 0.2 mm   |
| Max. angular gripper jaw backlash ax,ay                           | 0 deg  |
| Max. gripper jaw backlash Sz                                      | 0 mm   |
| Rotationally symmetrical  | ≤ 0.2 mm   |
| Repetition accuracy, gripper                                      | ≤ 0.02 mm  |
| Number of gripper fingers   | 2  |
| Drive system  | pneumatic  |
| Assembly position   | Any  |
| Mode of operation   | double-acting  |
| Gripper function  | Parallel   |
| Gripper force back-up   | No   |
| Design structure  | Connection direction underneath<br>Lever<br>Sideways mounting of gripper fingers<br>guided motion sequence |
| Guide   | Ball guide   |
| Position detection  | For proximity sensor   |
| Variants  | Recommended for production facilities for the manufacture of lithium-ion batteries                         |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), opening          | 125.4 N  |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing          | 107.8 N  |
| Operating pressure MPa  | 0.1 ... 0.8 MPa  |
| Operating pressure  | 1 ... 8 bar<br>14.5 ... 116 psi  |
| Max. operating frequency of gripper                               | 3 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                      | 40 ms  |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                      | 40 ms  |
| Operating medium  | Compressed air in accordance with ISO8573-1:2010 [7:4:4]   |
| Note on operating and pilot medium                                | Lubricated operation possible (subsequently required for further operation)                                |
| Corrosion resistance classification CRC                           | 0 - No corrosion stress  |
| PWIS conformity   | VDMA24364-B2-L   |
| RSBP classification to CD-0033                                    | F1a  |
| Ambient temperature   | -10 ... 60 °C  |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening | 62.7 N   |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 53.9 N   |
| Mass moment of inertia  | 0.215 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static                               | 49 N   |
| Max. torque at gripper Mx static                                  | 0.34 Nm  |
| Max. torque at gripper My static                                  | 0.68 Nm  |
| Max. torque at gripper Mz static                                  | 0.34 Nm  |
| Product weight  | 124 g  |
| Mounting type   | Direct mounting via through-holes<br>Direct mounting via threads   |

| Feature               | Value   |
|-----------------------|---|
|                       | With through-hole and dowel pin<br>With internal thread and dowel pin<br>Optional |
| Pneumatic connection  | M3  |
| Materials note        | Conforms to RoHS  |
| Material housing      | Anodised aluminium  |
| Material gripper jaws | High alloy steel, non-corrosive   |