

# Parallel gripper DHPC-L-20-A-NO-S-2

Part number: 8116843

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 20   |
| Stroke per gripper jaw  | 9 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   | single-acting<br>open  |
| Gripper function  | Parallel   |
| Gripper force back-up   | On opening   |
| Design structure  | Connection direction at side<br>Flat mounting of gripper fingers<br>Lever<br>guided motion sequence  |
| Guide   | Ball guide   |
| Position detection  | For proximity sensor   |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing          | 139.4 N  |
| Operating pressure MPa  | 0.25 ... 0.8 MPa   |
| Working pressure  | 2.5 ... 8 bar  |
| Operating pressure  | 36.25 ... 116 psi  |
| Max. operating frequency of gripper                               | 3 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                      | 156 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                      | 51 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   |
| Ambient temperature   | -10 ... 60 °C  |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 69.7 N   |
| Mass moment of inertia  | 0.764 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static                               | 73.5 N   |
| Max. torque at gripper Mx static                                  | 0.66 Nm  |
| Max. torque at gripper My static                                  | 1.33 Nm  |
| Max. torque at gripper Mz static                                  | 0.66 Nm  |
| Product weight  | 261 g  |
| Mounting type   | Direct mounting via through-holes<br>Direct mounting via threads<br>On mounting frame<br>With through-hole and dowel pin<br>With internal thread and dowel pin<br>Optional |
| Pneumatic connection  | M5   |
| Materials note  | Conforms to RoHS   |
| Material housing  | Anodised aluminium   |
| Material gripper jaws   | High alloy steel, non-corrosive  |