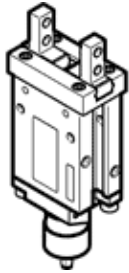


# Parallel gripper DHPC-6-A-NC-Z

Part number: 8116750

FESTO



## Data sheet

| Feature   | Value   |
|---|---|
| Size  | 6   |
| Stroke per gripper jaw  | 2 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>closed   |
| Gripper function  | Parallel  |
| Gripper force back-up   | On closing  |
| Design structure  | Connection via mounting spigot<br>Lever<br>Standard 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          | 10.4 N  |
| Operating pressure MPa  | 0.35 ... 0.8 MPa  |
| Working pressure  | 3.5 ... 8 bar   |
| Operating pressure  | 50.75 ... 116 psi   |
| Max. operating frequency of gripper                               | 3 Hz  |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                      | 16 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                      | 16 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 | 5.2 N   |
| Mass moment of inertia  | 0.013 kgcm <sup>2</sup>   |
| Max. force on gripper jaw Fz static                               | 5 N   |
| Max. torque at gripper Mx static                                  | 0.02 Nm   |
| Max. torque at gripper My static                                  | 0.04 Nm   |
| Max. torque at gripper Mz static                                  | 0.02 Nm   |
| Product weight  | 31 g  |
| Mounting type   | Direct mounting via through-holes<br>Direct mounting via threads<br>On mounting frame                     |

| <b>Feature</b>        | <b>Value</b>                    |
|-----------------------|---------------------------------|
|                       | Optional                        |
| Pneumatic connection  | M5                              |
| Materials note        | Conforms to RoHS                |
| Material housing      | Anodised aluminium              |
| Material gripper jaws | High alloy steel, non-corrosive |