

# Parallel gripper DHPC-...-10-A-

Part number: 8116729

**FESTO**



## Data sheet

| Feature                                      | Value   |
|--|---|
| Size   | 10  |
| Stroke per gripper jaws                      | 2 mm...4 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 jaws                       | 2   |
| Drive system                                 | Pneumatic   |
| Mounting position                            | optional  |
| Mode of operation                            | Double-acting<br>Single-acting<br>Closed<br>Open  |
| Gripper function                             | Parallel  |
| Gripper force back-up                        | None  |
| Design                                       | Connection via mounting spigot<br>Connection direction at side<br>Connection direction downwards<br>Flat mounting method for gripper fingers<br>Lever<br>Side mounting method for gripper fingers<br>Standard mounting method for gripper fingers<br>Force pilot operated motion sequence |
| Guide  | Ball guide  |
| Position detection                           | Via proximity switch  |
| 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                           | 0.2 MPa...0.8 MPa<br>2 bar...8 bar<br>29 psi...116 psi  |
| Max. operating frequency of gripper          | 3 Hz  |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 13 ms...31 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 15 ms...31 ms   |

| Feature   | Value  |
|---|--|
| Operating medium  | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                              | Lubricated operation possible (in which case lubricated operation will always be required)   |
| Corrosion resistance class CRC                                  | 0 - No corrosion stress  |
| LABS (PWIS) conformity  | VDMA24364-B2-L   |
| Suitability for the production of Li-ion batteries              | Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Ambient temperature   | -10 °C...60 °C   |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi)            | 39.2 N...51.2 N  |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 32.8 N...43 N  |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 19.6 N...25.6 N  |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 16.4 N...21.5 N  |
| Mass moment of inertia  | 0.04 kgcm <sup>2</sup> ...0.069 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static                             | 33 N   |
| Max. torque at gripper Mx static                                | 0.18 Nm  |
| Max. torque at gripper My static                                | 0.28 Nm  |
| Max. torque at gripper Mz static                                | 0.28 Nm  |
| Product weight  | 49 g...74 g  |
| Type of mounting  | Direct mounting via through-hole<br>Direct mounting via thread<br>On mounting frame<br>Via through-hole and dowel pin<br>Via female thread and dowel pin<br>Either:  |
| Pneumatic connection  | M3<br>M5   |
| Note on materials   | RoHS-compliant   |
| Material housing  | Anodised aluminium   |
| Material gripper jaws   | High-alloy stainless steel   |