

Parallel gripper DHPC-20-A-B-2

Part number: 8116822

FESTO



Data sheet

| Feature | Value |
|--|--|
| Size | 20 |
| Stroke per gripper jaws | 5 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 |
| Gripper function | Parallel |
| Gripper force back-up | None |
| Design | Connection direction downwards Flat mounting method for gripper fingers Lever 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 | 0.1 MPa...0.8 MPa 1 bar...8 bar 14.5 psi...116 psi |
| Max. operating frequency of gripper | 3 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 62 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 40 ms |
| 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 |

| Feature | Value |
|---|--|
| 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) | 192.6 N |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi) | 159.5 N |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 96.3 N |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 79.8 N |
| Mass moment of inertia | 0.515 kgcm ² |
| Max. force on gripper jaw Fz static | 101.3 N |
| Max. torque at gripper Mx static | 1.43 Nm |
| Max. torque at gripper My static | 1.3 Nm |
| Max. torque at gripper Mz static | 1.3 Nm |
| Product weight | 224 g |
| Type of mounting | Direct mounting via through-hole Direct mounting via thread On mounting frame Via through-hole and dowel pin Via female thread and dowel pin Either: |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Material housing | Anodised aluminium |
| Material gripper jaws | High-alloy stainless steel |