

Parallel gripper DHPC-16-A-B-1

Part number: 8116789

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|--|--|
| Size | 16 |
| Stroke per gripper jaws | 3 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 | Any |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Gripper force back-up | None |
| Design | Connection direction underneath Lever Side mounting method for gripper fingers Force pilot operated motion sequence |
| Guide | Ball guide |
| Position detection | Via proximity switch |
| Symbol | 00991894 |
| 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 |
| Operating pressure | 1 bar ... 8 bar |
| Operating pressure | 14.5 psi ... 116 psi |
| Max. operating frequency of gripper | 3 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 29 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 31 ms |
| Max. mass per external gripper finger | 50 g |
| 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 | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |

| Feature | Value |
|---|--|
| Ambient temperature | -10 °C ... 60 °C |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi) | 125.4 N |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi) | 107.8 N |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 62.7 N |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 53.9 N |
| Mass moment of inertia | 0.148 kgcm ² |
| Max. force on gripper jaw Fz static | 84 N |
| Max. torque at gripper Mx static | 0.94 Nm |
| Max. torque at gripper My static | 0.71 Nm |
| Max. torque at gripper Mz static | 0.71 Nm |
| Product weight | 111 g |
| Type of mounting | Either: Direct mounting via through-hole Direct mounting via thread Via through-hole and dowel pin Via female thread and dowel pin |
| Pneumatic connection | M3 |
| Note on materials | RoHS compliant |
| Material housing | Anodised aluminium |
| Material gripper jaws | High-alloy stainless steel |