

Parallel gripper DHPC-20-A-B-1

Part number: 8116821

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|--|--|
| Size | 20 |
| Stroke per gripper jaw | 5 mm |
| Max. interchangeability | 0.2 mm |
| Max. gripper jaw angular play ax, ay | 0 deg |
| Max. gripper jaw backlash Sz | 0 mm |
| Rotational symmetry | ≤0.2 mm |
| Pneumatic gripper repetition accuracy | ≤0.02 mm |
| Number of gripper jaws | 2 |
| Actuator system | Pneumatic |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Gripping force backup | Without |
| Structural design | Connection direction downwards Lever Side mounting type for gripper fingers Positively driven motion sequence |
| Guide | Ball guide |
| Position sensing | For proximity sensor |
| 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 pneumatic gripper | 3 Hz |
| Min. opening time at 6 bar | 62 ms |
| Min. closing time at 6 bar | 40 ms |
| Max. mass per external gripper finger | 110 g |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| 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) |
| Ambient temperature | -10 °C ... 60 °C |

| Feature | Value |
|--|--|
| Gripping force per gripper jaw at 6 bar, opening | 192.6 N |
| Gripping force per gripper jaw at 6 bar, closing | 159.5 N |
| Gripping force per gripper jaw at 6 bar, opening | 96.3 N |
| Gripping force per gripper jaw at 6 bar, closing | 79.8 N |
| Mass moment of inertia | 0.515 kgcm ² |
| Maximum force on gripper jaw Fz, static | 101.3 N |
| Maximum torque on gripper jaw, Mx static | 1.43 Nm |
| Maximum torque on gripper jaw, My static | 1.3 Nm |
| Maximum torque on gripper jaw, Mz static | 1.3 Nm |
| Product weight | 224 g |
| Type of mounting | Optionally: Direct mounting via through-hole Direct fastening via thread On mounting frame With through-hole and dowel pin With internal thread and dowel pin |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Housing material | Aluminum, anodized |
| Gripper jaw material | High-alloy stainless steel |