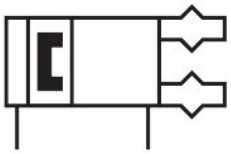
# Parallel gripper
# DHPC-L-20-A-S-2

Part number: 8116837





## Data sheet

| Feature | Value |
|---|---|
| Size | 20 |
| Stroke per gripper jaw | 9 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 | None |
| Structural design | Lateral connection direction<br>Flat mounting type for gripper fingers<br>Lever<br>Positively driven motion sequence |
| Guide | Ball guide |
| Position sensing | 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<br>1 bar...8 bar<br>14.5 psi...116 psi |
| Max. operating frequency of pneumatic gripper | 3 Hz |
| Min. opening time at 6 bar | 110 ms |
| Min. closing time at 6 bar | 75 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 |

| Feature | Value |
|---|---|
| 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 |
| Gripping force per gripper jaw at 6 bar, opening | 192.6 N<br>96.3 N |
| Gripping force per gripper jaw at 6 bar, closing | 159.5 N<br>79.8 N |
| Mass moment of inertia | 0.515 kgcm² |
| 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 | 261 g |
| Type of mounting | Alternatively:<br>Direct mounting via through-hole<br>Direct fastening via thread<br>On mounting frame<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Pneumatic connection | M5 |
| Note on materials | RoHS compliant |
| Housing material | Anodized aluminum |
| Gripper jaw material | high-alloy stainless steel |