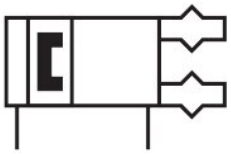
# Parallel gripper
# DHPC-40-A-S

Part number: 8116894





## Data sheet

| Feature | Value |
|---|---|
| Size | 40 |
| Stroke per gripper jaws | 15 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 | During opening |
| Design | Connection direction at side<br>Lever<br>Standard mounting method for gripper fingers<br>Force pilot operated motion sequence |
| Guide | Ball guide |
| Position detection | Via proximity switch |
| Operating pressure | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>14.5 psi...116 psi |
| Max. operating frequency of gripper | 1 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 158 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 153 ms |
| Max. mass per external gripper finger | 400 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) |
| Ambient temperature | -10 °C...60 °C |

| Feature | Value |
|---|---|
| Total gripping force, opening, 0.6MPa (6bar, 87 psi) | 777.2 N |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi) | 717.2 N |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 388.6 N |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 358.6 N |
| Mass moment of inertia | 14.87 kgcm² |
| Max. force on gripper jaw Fz static | 351.5 N |
| Max. torque at gripper Mx static | 16.15 Nm |
| Max. torque at gripper My static | 9.55 Nm |
| Max. torque at gripper Mz static | 9.55 Nm |
| Product weight | 1369 g |
| Type of mounting | Either:<br>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 |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Material housing | Anodised aluminium |
| Material gripper jaws | High-alloy stainless steel |