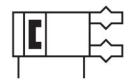
## Parallel gripper DHPC-L-16-A-B-1 Part number: 8116807







## **Data sheet**

General operating condition

| Feature                                      | Value  |
|--|--|
| Size   | 16   |
| Stroke per gripper jaws                      | 6 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 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) | 40 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              | 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, circuit boards, cables, electrical plug connectors and coils |
| 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  | 0.215 kgcm <sup>2</sup>   |
| 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  | 124 g   |
| Type of mounting  | Direct mounting via through-hole Direct mounting via thread Via through-hole and dowel pin Via female thread and dowel pin Either:  |
| Pneumatic connection  | M3  |
| Note on materials   | RoHS-compliant  |
| Material housing  | Anodised aluminium  |
| Material gripper jaws   | High-alloy stainless steel  |