

# Parallel gripper DHPS-10-A-NO

Part number: 1254041

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Size   | 10  |
| Stroke per gripper jaws                            | 3 mm  |
| Max. replacement accuracy                          | ≤0.2 mm   |
| Max. angular gripper jaw backlash ax, ay           | <0.5 deg  |
| Max. gripper jaw backlash Sz                       | <0.02 mm  |
| Rotationally symmetrical                           | ≤0.2 mm   |
| Repetition accuracy, gripper                       | <0.02 mm  |
| Number of gripper jaws                             | 2   |
| Mounting position                                  | optional  |
| Mode of operation                                  | Double-acting   |
| Gripper function                                   | Parallel  |
| Gripper force back-up                              | During opening  |
| Design   | Force pilot operated motion sequence  |
| Guide  | Plain-bearing guide   |
| Position detection                                 | Via proximity switch  |
| Symbol   | 00995947  |
| Operating pressure                                 | 0.4 MPa ... 0.8 MPa   |
| Operating pressure                                 | 4 bar ... 8 bar   |
| Operating pressure                                 | 58 psi ... 116 psi  |
| Max. operating frequency of gripper                | 4 Hz  |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)       | 19 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)       | 30 ms   |
| Max. mass per external gripper finger              | 60 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                     | 1 - Low corrosion stress  |
| LABS (PWIS) conformity                             | VDMA24364-B2-L  |
| Suitability for the production of Li-ion batteries | Metals with more than 5% by mass of copper are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils |
| Ambient temperature                                | 5 °C ... 60 °C  |
| Mass moment of inertia                             | 0.082 kgcm <sup>2</sup>   |
| Max. force on gripper jaw Fz static                | 60 N  |
| Max. torque at gripper Mx static                   | 3 Nm  |
| Max. torque at gripper My static                   | 3 Nm  |

| <b>Feature</b>                            | <b>Value</b>   |
|---|--|
| Max. torque at gripper Mz static          | 3 Nm   |
| Lubrication interval for guide components | 10 MioCyc  |
| Product weight                            | 68 g   |
| Type of mounting                          | Either:<br>Via female thread and centring sleeve<br>Via through-hole and centring sleeve |
| Pneumatic connection                      | M3   |
| Note on materials                         | RoHS-compliant   |
| Material cover cap                        | PA   |
| Material housing                          | Hard anodised wrought aluminium alloy  |
| Material gripper jaws                     | High-alloy stainless steel   |