

# Parallel gripper DHPC-25-A-NC-S

Part number: 8116861

FESTO



 General operating condition

## Data sheet

| Feature                                            | Value                                                              |
|----------------------------------------------------|--------------------------------------------------------------------|
| Size                                               | 25                                                                 |
| Stroke per gripper jaw                             | 7 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                                  | Single-acting<br>Closed                                            |
| Gripper function                                   | Parallel                                                           |
| Gripping force backup                              | During closing                                                     |
| Structural design                                  | Positively driven motion sequence                                  |
| Guide                                              | Ball guide                                                         |
| Position sensing                                   | For proximity sensor                                               |
| Symbol                                             | 00997348                                                           |
| Operating pressure                                 | 0.25 MPa ... 0.8 MPa                                               |
| Operating pressure                                 | 2.5 bar ... 8 bar                                                  |
| Operating pressure                                 | 36.25 psi ... 116 psi                                              |
| Max. operating frequency of pneumatic gripper      | 3 Hz                                                               |
| Min. opening time at 6 bar                         | 114 ms                                                             |
| Min. closing time at 6 bar                         | 49 ms                                                              |
| Max. mass per external gripper finger              | 160 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                                                   |
| Gripping force per gripper jaw at 6 bar, opening   | 291.4 N                                                            |
| Gripping force per gripper jaw at 6 bar, opening   | 145.7 N                                                            |
| Mass moment of inertia                             | 1.6 kgcm <sup>2</sup>                                              |
| Maximum force on gripper jaw Fz, static            | 155.9 N                                                            |

| Feature                                  | Value                                                                 |
|------------------------------------------|-----------------------------------------------------------------------|
| Maximum torque on gripper jaw, Mx static | 4.83 Nm                                                               |
| Maximum torque on gripper jaw, My static | 2.52 Nm                                                               |
| Maximum torque on gripper jaw, Mz static | 2.52 Nm                                                               |
| Product weight                           | 441 g                                                                 |
| Type of mounting                         | With through-hole and dowel pin<br>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                                            |