

# Parallel gripper DHPS-20-A-NC

Part number: 1254048

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 20   |
| Stroke per gripper jaw                             | 6.5 mm   |
| Max. interchangeability                            | ≤0.2 mm  |
| Max. gripper jaw angular play ax, ay               | <0.5 deg   |
| Max. gripper jaw backlash Sz                       | <0.02 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                              | During closing   |
| Structural design                                  | Lever<br>Positively driven motion sequence   |
| Guide  | Sliding guide  |
| Position sensing                                   | For proximity sensor   |
| Symbol   | 00991895   |
| Operating pressure                                 | 0.4 MPa ... 0.8 MPa  |
| Operating pressure                                 | 4 bar ... 8 bar  |
| Operating pressure                                 | 58 psi ... 116 psi   |
| Max. operating frequency of pneumatic gripper      | 3 Hz   |
| Min. opening time at 6 bar                         | 72 ms  |
| Min. closing time at 6 bar                         | 62 ms  |
| Max. mass per external gripper finger              | 250 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)                   | 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.<br>Exception are printed circuit boards, cables, electrical connectors and coils |
| Ambient temperature                                | 5 °C ... 60 °C   |
| Mass moment of inertia                             | 1.494 kgcm <sup>2</sup>  |
| Maximum force on gripper jaw Fz, static            | 250 N  |
| Maximum torque on gripper jaw, Mx static           | 14 Nm  |

| Feature                                      | Value   |
|--|---|
| Maximum torque on gripper jaw, My static     | 14 Nm   |
| Maximum torque on gripper jaw, Mz static     | 14 Nm   |
| Relubrication interval for guidance elements | 10 MioCyc   |
| Product weight                               | 387 g   |
| Type of mounting                             | Optionally:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve |
| Pneumatic connection                         | M5  |
| Note on materials                            | RoHS-compliant  |
| Cover cap material                           | PA  |
| Housing material                             | Wrought aluminum alloy, hard-anodized   |
| Gripper jaw material                         | High-alloy stainless steel  |