

# Parallel gripper DHPS-25-A-NC

Part number: 1254051

FESTO



## Data sheet

| Feature                                      | Value  |
|--|--|
| Size   | 25   |
| Stroke per gripper jaws                      | 7.5 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   |
| Short type code                              | DHPS   |
| Number of gripper jaws                       | 2  |
| Mounting position                            | optional   |
| Mode of operation                            | Double-acting  |
| Gripper function                             | Parallel   |
| Gripper force back-up                        | During closing   |
| Design                                       | Lever<br>Force pilot operated motion sequence  |
| Guide  | Plain-bearing guide  |
| Position detection                           | Via proximity switch   |
| Symbol                                       | 00991895   |
| Operating pressure                           | 4 bar ... 8 bar  |
| Max. operating frequency of gripper          | 2 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 68 ms  |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 52 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               | 1 - Low corrosion stress   |
| Ambient temperature                          | 5 °C ... 60 °C   |
| Mass moment of inertia                       | 3.835 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static          | 350 N  |
| Max. torque at gripper Mx static             | 30 Nm  |
| Max. torque at gripper My static             | 30 Nm  |
| Max. torque at gripper Mz static             | 30 Nm  |
| Lubrication interval for guide components    | 10 MioCyc  |
| Max. mass per external gripper finger        | 350 g  |
| Product weight                               | 713 g  |

| Feature               | Value  |
|-----------------------|--|
| Type of mounting      | Either:<br>Via female thread and centring sleeve<br>Via through-hole and centring sleeve |
| Pneumatic connection  | G1/8   |
| Note on materials     | RoHS-compliant   |
| Material cover cap    | PA   |
| Material housing      | Wrought aluminium alloy<br>Hard anodised   |
| Material gripper jaws | High-alloy stainless steel   |