

# Parallel gripper HGPD-25-A-G2

Part number: 1132944

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                       | Value  |
|---|--|
| Size  | 25   |
| Stroke per gripper jaw                        | 6 mm   |
| Max. interchangeability                       | ≤0.2 mm  |
| Max. gripper jaw angular play ax, ay          | ≤0.1 deg   |
| Max. gripper jaw backlash Sz                  | ≤0.02 mm   |
| Rotational symmetry                           | ≤0.2 mm  |
| Pneumatic gripper repetition accuracy         | ≤0.04 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                             | Inclined plane<br>Positively driven motion sequence                |
| Position sensing                              | For proximity sensor   |
| Symbol  | 00991895   |
| Operating pressure                            | 4 bar ... 8 bar  |
| Operating pressure for sealing air            | 0 bar ... 0.5 bar  |
| Max. operating frequency of pneumatic gripper | ≤3 Hz  |
| Min. opening time at 6 bar                    | 48 ms  |
| Min. closing time at 6 bar                    | 28 ms  |
| Max. mass per external gripper finger         | 138 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)              | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                        | VDMA24364-B2-L   |
| Degree of protection                          | IP65   |
| Ambient temperature                           | 5 °C ... 60 °C   |
| Mass moment of inertia                        | 1.72 kgcm <sup>2</sup>   |
| Maximum torque on gripper jaw, Mx static      | 30 Nm  |
| Maximum torque on gripper jaw, My static      | 25 Nm  |
| Maximum torque on gripper jaw, Mz static      | 15 Nm  |
| Relubrication interval for guidance elements  | 5 MioCyc   |
| Product weight                                | 361 g  |

| Feature                          | Value  |
|----------------------------------|--|
| Type of mounting                 | Optionally:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Sealing air pneumatic connection | M5   |
| Pneumatic connection             | M5   |
| Note on materials                | RoHS-compliant   |
| Cover cap material               | High-alloy stainless steel   |
| Housing material                 | Aluminum, anodized   |
| Gripper jaw material             | Hardened steel   |