

# Parallel gripper HGPD-40-A-G1

Part number: 1132949

FESTO



 General operating condition

## Data sheet

| Feature                                       | Value                                                              |
|-----------------------------------------------|--------------------------------------------------------------------|
| Size                                          | 40                                                                 |
| Stroke per gripper jaw                        | 10 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         | ≤0.05 mm                                                           |
| Number of gripper jaws                        | 2                                                                  |
| Actuator system                               | Pneumatic                                                          |
| Mounting position                             | Any                                                                |
| Mode of operation                             | Double-acting                                                      |
| Gripper function                              | Parallel                                                           |
| Gripping force backup                         | On opening                                                         |
| Structural design                             | Positively driven motion sequence                                  |
| Position sensing                              | For proximity sensor                                               |
| Symbol                                        | 00995947                                                           |
| Operating pressure                            | 4 bar ... 8 bar                                                    |
| Operating pressure for sealing air            | 0 bar ... 0.5 bar                                                  |
| Max. operating frequency of pneumatic gripper | ≤2 Hz                                                              |
| Min. opening time at 6 bar                    | 73 ms                                                              |
| Min. closing time at 6 bar                    | 157 ms                                                             |
| Max. mass per external gripper finger         | 445 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                        | 14.09 kgcm <sup>2</sup>                                            |
| Maximum torque on gripper jaw, Mx static      | 70 Nm                                                              |
| Maximum torque on gripper jaw, My static      | 45 Nm                                                              |
| Maximum torque on gripper jaw, Mz static      | 35 Nm                                                              |
| Relubrication interval for guidance elements  | 5 MioCyc                                                           |
| Product weight                                | 1223 g                                                             |

| Feature                          | Value                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|
| Type of mounting                 | 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                                                                                                 |