

# Parallel gripper HGPD-40-A

Part number: 1132948

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 40   |
| Stroke per gripper jaws   | 10 mm  |
| Max. replacement accuracy                                       | ≤0.2 mm  |
| Max. angular gripper jaw backlash ax, ay                        | ≤0.1 deg   |
| Max. gripper jaw backlash Sz                                    | ≤0.02 mm   |
| Rotationally symmetrical  | ≤0.2 mm  |
| Repetition accuracy, gripper                                    | ≤0.05 mm   |
| Number of gripper jaws  | 2  |
| Drive system  | Pneumatic  |
| Mounting position   | optional   |
| Mode of operation   | Double-acting  |
| Gripper function  | Parallel   |
| Gripper force back-up   | None   |
| Design  | Force pilot operated motion sequence   |
| Position detection  | Via proximity switch   |
| Symbol  | 00991894   |
| Operating pressure  | 3 bar ... 8 bar  |
| Operating pressure of blocked air                               | 0 bar ... 0.5 bar  |
| Max. operating frequency of gripper                             | ≤2 Hz  |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                    | 73 ms  |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                    | 77 ms  |
| Max. mass per external gripper finger                           | 445 g  |
| 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                                  | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity  | VDMA24364-B2-L   |
| Degree of protection  | IP65   |
| Ambient temperature   | 5 °C ... 60 °C   |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi)            | 630 N  |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 598 N  |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 315 N  |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 267 N  |
| Mass moment of inertia  | 10.1 kgcm <sup>2</sup>   |
| Max. force on gripper jaw Fz static                             | 1200 N   |

| Feature                                   | Value   |
|---|---|
| Max. torque at gripper Mx static          | 70 Nm   |
| Max. torque at gripper My static          | 45 Nm   |
| Max. torque at gripper Mz static          | 35 Nm   |
| Lubrication interval for guide components | 5 MioCyc  |
| Product weight                            | 1044 g  |
| Type of mounting                          | Either:<br>Via female thread and centring sleeve<br>Via through-hole and centring sleeve<br>Via through-hole and dowel pin<br>Via female thread and dowel pin |
| Pneumatic connection, blocked air         | M5  |
| Pneumatic connection                      | M5  |
| Note on materials                         | RoHS-compliant  |
| Material cover cap                        | High-alloy stainless steel  |
| Material housing                          | Anodised aluminium  |
| Material gripper jaws                     | Hardened steel  |