

# Parallel gripper HGPM-08-EZ-G8

Part number: 197563

**FESTO**



## Data sheet

| Feature                                                         | Value                                                                                      |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Size                                                            | 8                                                                                          |
| Stroke per gripper jaws                                         | 2 mm                                                                                       |
| Max. replacement accuracy                                       | 0.2 mm                                                                                     |
| Max. angular gripper jaw backlash ax, ay                        | 0.5 deg                                                                                    |
| Max. gripper jaw backlash Sz                                    | 0.03 mm                                                                                    |
| Rotationally symmetrical                                        | 0.15 mm                                                                                    |
| Repetition accuracy, gripper                                    | 0.05 mm                                                                                    |
| Number of gripper jaws                                          | 2                                                                                          |
| Drive system                                                    | Pneumatic                                                                                  |
| Mode of operation                                               | Single-acting<br>Closed                                                                    |
| Gripper function                                                | Parallel                                                                                   |
| Gripper force back-up                                           | None                                                                                       |
| Design                                                          | Wedge-shaped drive                                                                         |
| Position detection                                              | Without                                                                                    |
| Operating pressure                                              | 4 bar...8 bar                                                                              |
| Max. operating frequency of gripper                             | 4 Hz                                                                                       |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                    | 1.9 ms                                                                                     |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                    | 4.1 ms                                                                                     |
| Max. mass per external gripper finger                           | 5 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                                  | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                          | VDMA24364-B2-L                                                                             |
| Ambient temperature                                             | 5 °C...60 °C                                                                               |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 16 N                                                                                       |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 8 N                                                                                        |
| Mass moment of inertia                                          | 0.00573 kgcm <sup>2</sup>                                                                  |
| Max. force on gripper jaw Fz static                             | 10 N                                                                                       |
| Max. torque at gripper Mx static                                | 0.1 Nm                                                                                     |
| Max. torque at gripper My static                                | 0.1 Nm                                                                                     |

| Feature                          | Value                            |
|----------------------------------|----------------------------------|
| Max. torque at gripper Mz static | 0.1 Nm                           |
| Product weight                   | 11 g                             |
| Type of mounting                 | Clamped                          |
| Pneumatic connection             | M3                               |
| Note on materials                | RoHS-compliant                   |
| Material cover cap               | POM                              |
| Material housing                 | Anodised wrought aluminium alloy |
| Material gripper jaws            | High-alloy steel                 |