

# Parallel gripper HGPM-08-EZ-G9

Part number: 197564

FESTO



 General operating condition

## Data sheet

| Feature                                          | Value                                                              |
|--------------------------------------------------|--------------------------------------------------------------------|
| Size                                             | 8                                                                  |
| Stroke per gripper jaw                           | 2 mm                                                               |
| Max. interchangeability                          | 0.2 mm                                                             |
| Max. gripper jaw angular play ax, ay             | <0.5 deg                                                           |
| Max. gripper jaw backlash Sz                     | <0.03 mm                                                           |
| Rotational symmetry                              | 0.15 mm                                                            |
| Pneumatic gripper repetition accuracy            | ≤0.05 mm                                                           |
| Number of gripper jaws                           | 2                                                                  |
| Actuator system                                  | Pneumatic                                                          |
| Mode of operation                                | Single-acting<br>Closed                                            |
| Gripper function                                 | Parallel                                                           |
| Gripping force backup                            | Without                                                            |
| Structural design                                | Inclined plane                                                     |
| Position sensing                                 | None                                                               |
| Symbol                                           | 00991898                                                           |
| Operating pressure                               | 4 bar ... 8 bar                                                    |
| Max. operating frequency of pneumatic gripper    | 4 Hz                                                               |
| Min. opening time at 6 bar                       | 1.9 ms                                                             |
| Min. closing time at 6 bar                       | 4.1 ms                                                             |
| Max. mass per external gripper finger            | 5 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)                 | 1 - Low corrosion stress                                           |
| LABS (PWIS) conformity                           | VDMA24364-B2-L                                                     |
| Ambient temperature                              | 5 °C ... 60 °C                                                     |
| Gripping force per gripper jaw at 6 bar, closing | 16 N                                                               |
| Gripping force per gripper jaw at 6 bar, opening | 8 N                                                                |
| Mass moment of inertia                           | 0.01712 kgcm <sup>2</sup>                                          |
| Maximum force on gripper jaw Fz, static          | 10 N                                                               |
| Maximum torque on gripper jaw, Mx static         | 0.1 Nm                                                             |
| Maximum torque on gripper jaw, My static         | 0.1 Nm                                                             |
| Maximum torque on gripper jaw, Mz static         | 0.1 Nm                                                             |
| Product weight                                   | 18 g                                                               |
| Type of mounting                                 | With internal thread                                               |

| Feature              | Value                            |
|----------------------|----------------------------------|
| Pneumatic connection | M3                               |
| Note on materials    | RoHS-compliant                   |
| Cover cap material   | POM                              |
| Housing material     | Wrought aluminum alloy, anodized |
| Gripper jaw material | High-alloy steel                 |