

# Parallel gripper HGPP-12-A-G2

Part number: 187869

FESTO



 General operating condition

## Data sheet

| Feature                                       | Value                                                              |
|-----------------------------------------------|--------------------------------------------------------------------|
| Size                                          | 12                                                                 |
| Stroke per gripper jaw                        | 2.5 mm                                                             |
| Max. interchangeability                       | 0.1 mm                                                             |
| Max. gripper jaw angular play ax, ay          | 0 deg                                                              |
| Max. gripper jaw backlash Sz                  | 0 mm                                                               |
| Rotational symmetry                           | 0.05 mm                                                            |
| Pneumatic gripper repetition accuracy         | ≤0.02 mm                                                           |
| Number of gripper jaws                        | 2                                                                  |
| Actuator system                               | Pneumatic                                                          |
| Mode of operation                             | Double-acting                                                      |
| Gripper function                              | Parallel                                                           |
| Gripping force backup                         | During closing                                                     |
| Structural design                             | Gear rack/pinion                                                   |
| Position sensing                              | For Hall sensor<br>For inductive proximity sensors                 |
| Symbol                                        | 00991895                                                           |
| Operating pressure                            | 5 bar ... 8 bar                                                    |
| Max. operating frequency of pneumatic gripper | 4 Hz                                                               |
| Min. opening time at 6 bar                    | 37 ms                                                              |
| Min. closing time at 6 bar                    | 40 ms                                                              |
| Max. mass per external gripper finger         | 100 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                                                     |
| Ambient temperature                           | 5 °C ... 60 °C                                                     |
| Mass moment of inertia                        | 0.74 kgcm <sup>2</sup>                                             |
| Maximum force on gripper jaw Fz, static       | 70 N                                                               |
| Maximum torque on gripper jaw, Mx static      | 3 Nm                                                               |
| Maximum torque on gripper jaw, My static      | 3 Nm                                                               |
| Maximum torque on gripper jaw, Mz static      | 3 Nm                                                               |
| Product weight                                | 173 g                                                              |
| Type of mounting                              | With internal thread                                               |
| Pneumatic connection                          | M3                                                                 |
| Note on materials                             | RoHS-compliant                                                     |

| Feature              | Value                                 |
|----------------------|---------------------------------------|
| Cover cap material   | POM                                   |
| Housing material     | Wrought aluminum alloy, hard-anodized |
| Gripper jaw material | Wrought aluminum alloy, nickel-plated |