

# Parallel gripper HGPP-10-A

Part number: 525658

FESTO



## Data sheet

| Feature                                          | Value                                                              |
|--------------------------------------------------|--------------------------------------------------------------------|
| Size                                             | 10                                                                 |
| Stroke per gripper jaw                           | 2 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                            | Without                                                            |
| Structural design                                | Gear rack/pinion                                                   |
| Position sensing                                 | For Hall sensor<br>For inductive proximity sensors                 |
| Operating pressure                               | 2 bar...8 bar                                                      |
| Max. operating frequency of pneumatic gripper    | 4 Hz                                                               |
| Min. opening time at 6 bar                       | 22 ms                                                              |
| Min. closing time at 6 bar                       | 34 ms                                                              |
| Max. mass per external gripper finger            | 50 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                                                       |
| Gripping force per gripper jaw at 6 bar, opening | 80 N<br>40 N                                                       |
| Gripping force per gripper jaw at 6 bar, closing | 80 N<br>40 N                                                       |
| Mass moment of inertia                           | 0.43 kgcm <sup>2</sup>                                             |
| Maximum force on gripper jaw Fz, static          | 40 N                                                               |
| Maximum torque on gripper jaw, Mx static         | 1.5 Nm                                                             |

| Feature                                  | Value                                 |
|------------------------------------------|---------------------------------------|
| Maximum torque on gripper jaw, My static | 1.5 Nm                                |
| Maximum torque on gripper jaw, Mz static | 1.5 Nm                                |
| Product weight                           | 126 g                                 |
| Type of mounting                         | With internal thread                  |
| Pneumatic connection                     | M3                                    |
| Note on materials                        | RoHS-compliant                        |
| Cover cap material                       | POM                                   |
| Housing material                         | Wrought aluminum alloy, hard-anodized |
| Gripper jaw material                     | Wrought aluminum alloy, nickel-plated |