

# Parallel gripper HGPP-10-A

Part number: 525658

**FESTO**



## Data sheet

| Feature                                                         | Value                                                                                      |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Size                                                            | 10                                                                                         |
| Stroke per gripper jaws                                         | 2 mm                                                                                       |
| Max. replacement accuracy                                       | 0.1 mm                                                                                     |
| Max. angular gripper jaw backlash ax, ay                        | 0 deg                                                                                      |
| Max. gripper jaw backlash Sz                                    | 0 mm                                                                                       |
| Rotationally symmetrical                                        | 0.05 mm                                                                                    |
| Repetition accuracy, gripper                                    | 0.02 mm                                                                                    |
| Number of gripper jaws                                          | 2                                                                                          |
| Drive system                                                    | Pneumatic                                                                                  |
| Mode of operation                                               | Double-acting                                                                              |
| Gripper function                                                | Parallel                                                                                   |
| Gripper force back-up                                           | None                                                                                       |
| Design                                                          | Rack and pinion                                                                            |
| Position detection                                              | Via Hall sensor<br>Via inductive sensors                                                   |
| Operating pressure                                              | 2 bar...8 bar                                                                              |
| Max. operating frequency of gripper                             | 4 Hz                                                                                       |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                    | 22 ms                                                                                      |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                    | 34 ms                                                                                      |
| Max. mass per external gripper finger                           | 50 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                                                                             |
| Ambient temperature                                             | 5 °C...60 °C                                                                               |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi)            | 80 N                                                                                       |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 80 N                                                                                       |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 40 N                                                                                       |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 40 N                                                                                       |
| Mass moment of inertia                                          | 0.43 kgcm <sup>2</sup>                                                                     |
| Max. force on gripper jaw Fz static                             | 40 N                                                                                       |

| Feature                          | Value                                  |
|----------------------------------|----------------------------------------|
| Max. torque at gripper Mx static | 1.5 Nm                                 |
| Max. torque at gripper My static | 1.5 Nm                                 |
| Max. torque at gripper Mz static | 1.5 Nm                                 |
| Product weight                   | 126 g                                  |
| Type of mounting                 | Via female thread                      |
| Pneumatic connection             | M3                                     |
| Note on materials                | RoHS-compliant                         |
| Material cover cap               | POM                                    |
| Material housing                 | Hard anodised wrought aluminium alloy  |
| Material gripper jaws            | Wrought aluminium alloy, nickel-plated |