

# Parallel gripper HGPP-20-A-G1

Part number: 187874

FESTO



## Data sheet

| Feature                                      | Value  |
|--|--|
| Size   | 20   |
| Stroke per gripper jaws                      | 7.5 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                        | During opening   |
| Design                                       | Rack and pinion  |
| Position detection                           | Via Hall sensor<br>Via inductive sensors   |
| Operating pressure                           | 5 bar...8 bar  |
| Max. operating frequency of gripper          | 4 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 45 ms  |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 92 ms  |
| Max. mass per external gripper finger        | 200 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   |
| Mass moment of inertia                       | 6.71 kgcm <sup>2</sup>   |
| Max. force on gripper jaw Fz static          | 220 N  |
| Max. torque at gripper Mx static             | 14 Nm  |
| Max. torque at gripper My static             | 14 Nm  |
| Max. torque at gripper Mz static             | 14 Nm  |
| Product weight                               | 611 g  |

| <b>Feature</b>        | <b>Value</b>                           |
|-----------------------|--|
| Type of mounting      | Via female thread                      |
| Pneumatic connection  | M5                                     |
| Note on materials     | RoHS-compliant                         |
| Material cover cap    | POM                                    |
| Material housing      | Hard anodised wrought aluminium alloy  |
| Material gripper jaws | Wrought aluminium alloy, nickel-plated |