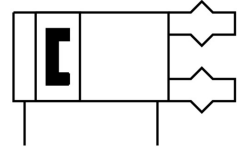
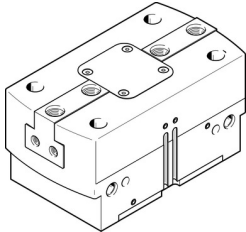


# Parallel gripper HGPT-80-A-B-F

Part number: 560237

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 80   |
| Stroke per gripper jaw                           | 12.5 mm  |
| Max. interchangeability                          | ≤0.2 mm  |
| Max. gripper jaw angular play ax, ay             | ≤0.1 deg   |
| Max. gripper jaw backlash Sz                     | ≤0.02 mm   |
| Rotational symmetry                              | ≤0.2 mm  |
| Pneumatic gripper repetition accuracy            | ≤0.05 mm   |
| Type code  | HGPT   |
| Number of gripper jaws                           | 2  |
| Mounting position                                | Any  |
| Mode of operation                                | Double-acting  |
| Gripper function                                 | Parallel   |
| Structural design                                | Inclined plane<br>Positively driven motion sequence                |
| Position sensing                                 | For proximity sensor   |
| Symbol   | 00991894   |
| Total gripping force at 6 bar, opening           | 6550 N   |
| Total gripping force at 6 bar, closing           | 6300 N   |
| Operating pressure                               | 3 bar ... 8 bar  |
| Operating pressure for sealing air               | 0 bar ... 0.5 bar  |
| Max. operating frequency of pneumatic gripper    | ≤2 Hz  |
| Min. opening time at 6 bar                       | 212 ms   |
| Min. closing time at 6 bar                       | 211 ms   |
| Max. mass per external gripper finger            | 1830 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                                      |
| Degree of protection                             | IP40   |
| Ambient temperature                              | 5 °C ... 60 °C   |
| Gripping force per gripper jaw at 6 bar, opening | 3275 N   |
| Gripping force per gripper jaw at 6 bar, closing | 3150 N   |
| Mass moment of inertia                           | 150.515 kgcm <sup>2</sup>  |
| Maximum force on gripper jaw Fz, static          | 7000 N   |
| Maximum torque on gripper jaw, Mx static         | 180 Nm   |
| Maximum torque on gripper jaw, My static         | 220 Nm   |
| Maximum torque on gripper jaw, Mz static         | 170 Nm   |

| Feature                                      | Value  |
|--|--|
| Relubrication interval for guidance elements | 5 MioCyc   |
| Product weight                               | 4745 g   |
| Type of mounting                             | Optionally:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Sealing air pneumatic connection             | M5   |
| Pneumatic connection                         | G1/4   |
| Note on materials                            | Free of copper and PTFE<br>RoHS-compliant  |
| Cover cap material                           | High-alloy stainless steel   |
| Housing material                             | Aluminum<br>Anodized   |
| Gripper jaw material                         | Steel<br>Hardened  |