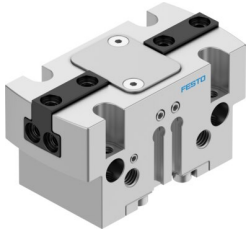


# Parallel gripper HGPT-20-A-B

Part number: 560198

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 20   |
| Stroke per gripper jaw                           | 4 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            | ≤0.04 mm   |
| Number of gripper jaws                           | 2  |
| Actuator system                                  | Pneumatic  |
| Mounting position                                | Any  |
| Mode of operation                                | Double-acting  |
| Gripper function                                 | Parallel   |
| Gripping force backup                            | None   |
| Structural design                                | Inclined plane<br>Positively driven motion sequence                |
| Position sensing                                 | Via proximity switch   |
| Symbol   | 00991894   |
| Operating pressure                               | 3 bar ... 8 bar  |
| Operating pressure for sealing air               | 0 bar ... 0.5 bar  |
| Max. operating frequency of pneumatic gripper    | ≤3 Hz  |
| Min. opening time at 6 bar                       | 22 ms  |
| Min. closing time at 6 bar                       | 30 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-B1/B2-L  |
| Degree of protection                             | IP40   |
| Ambient temperature                              | 5 °C ... 60 °C   |
| Gripping force per gripper jaw at 6 bar, opening | 162 N  |
| Gripping force per gripper jaw at 6 bar, closing | 154 N  |
| Gripping force per gripper jaw at 6 bar, opening | 82 N   |
| Gripping force per gripper jaw at 6 bar, closing | 77 N   |
| Mass moment of inertia                           | 0.344 kgcm <sup>2</sup>  |
| Maximum force on gripper jaw Fz, static          | 700 N  |

| Feature                                      | Value   |
|--|---|
| Maximum torque on gripper jaw, Mx static     | 15 Nm   |
| Maximum torque on gripper jaw, My static     | 15 Nm   |
| Maximum torque on gripper jaw, Mz static     | 8 Nm  |
| Relubrication interval for guidance elements | 5 MioCyc  |
| Product weight                               | 135 g   |
| Type of mounting                             | Alternatively:<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                         | M5  |
| Note on materials                            | RoHS compliant  |
| Cover cap material                           | high-alloy stainless steel  |
| Housing material                             | Anodized aluminum   |
| Gripper jaw material                         | Hardened steel  |