

# Parallel gripper HGPT-16-A-B-F

Part number: 560195

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 16   |
| Stroke per gripper jaws   | 1.5 mm   |
| Max. replacement accuracy                                       | 0.2 mm   |
| Max. angular gripper jaw backlash ax, ay                        | 0.1 deg  |
| Max. gripper jaw backlash Sz                                    | 0.02 mm  |
| Rotationally symmetrical  | 0.2 mm   |
| Repetition accuracy, gripper                                    | 0.03 mm  |
| Number of gripper jaws  | 2  |
| Drive system  | Pneumatic  |
| Mounting position   | optional   |
| Mode of operation   | Double-acting  |
| Gripper function  | Parallel   |
| Gripper force back-up   | None   |
| Design  | Wedge-shaped drive<br>Force pilot operated motion sequence                                 |
| Position detection  | Via proximity switch   |
| Operating pressure  | 3 bar...8 bar  |
| Operating pressure of blocked air                               | 0 bar...0.5 bar  |
| Max. operating frequency of gripper                             | 3 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                    | 8 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                    | 10 ms  |
| Max. mass per external gripper finger                           | 40 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-B1/B2-L  |
| Degree of protection  | IP40   |
| Ambient temperature   | 5 °C...60 °C   |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi)            | 216 N  |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 192 N  |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 108 N  |

| Feature   | Value   |
|---|---|
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 96 N  |
| Mass moment of inertia  | 0.141 kgcm <sup>2</sup>   |
| Max. force on gripper jaw Fz static                             | 200 N   |
| Max. torque at gripper Mx static                                | 10 Nm   |
| Max. torque at gripper My static                                | 12 Nm   |
| Max. torque at gripper Mz static                                | 6 Nm  |
| Lubrication interval for guide components                       | 5 MioCyc  |
| Product weight  | 85 g  |
| Type of mounting  | Either:<br>Via female thread and centring sleeve<br>Via through-hole and centring sleeve<br>Via through-hole and dowel pin<br>Via female thread and dowel pin |
| Pneumatic connection, blocked air                               | M3  |
| Pneumatic connection  | M5  |
| Note on materials   | RoHS-compliant  |
| Material cover cap  | High-alloy stainless steel  |
| Material housing  | Anodised aluminium  |
| Material gripper jaws   | Hardened steel  |