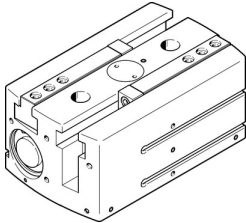


# Parallel gripper HGPL-40-60-A-B

Part number: 3361489

FESTO



## Data sheet

| Feature                                          | Value                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------------|
| Size                                             | 40                                                                       |
| Stroke per gripper jaw                           | 60 mm                                                                    |
| Max. interchangeability                          | <0.2 mm                                                                  |
| Max. gripper jaw angular play ax, ay             | <0.2 deg                                                                 |
| Max. gripper jaw backlash Sz                     | <0.05 mm                                                                 |
| Rotational symmetry                              | ≤0.2 mm                                                                  |
| Pneumatic gripper repetition accuracy            | <0.03 mm                                                                 |
| Type code                                        | HGPL                                                                     |
| Number of gripper jaws                           | 2                                                                        |
| Mounting position                                | Any                                                                      |
| Mode of operation                                | Double-acting                                                            |
| Gripper function                                 | Parallel                                                                 |
| Design                                           | Twin piston<br>Guide<br>Piston gate valve<br>T-shape<br>Gear rack/pinion |
| Position sensing                                 | For proximity sensor                                                     |
| Symbol                                           | 00991894                                                                 |
| Total gripping force at 6 bar, opening           | 1038 N                                                                   |
| Total gripping force at 6 bar, closing           | 1216 N                                                                   |
| Operating pressure                               | 3 bar ... 8 bar                                                          |
| Max. operating frequency of pneumatic gripper    | <1 Hz                                                                    |
| Min. opening time at 6 bar                       | 430 ms                                                                   |
| Min. closing time at 6 bar                       | 430 ms                                                                   |
| 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                                            |
| Ambient temperature                              | 5 °C ... 60 °C                                                           |
| Gripping force per gripper jaw at 6 bar, opening | 519 N                                                                    |
| Gripping force per gripper jaw at 6 bar, closing | 608 N                                                                    |
| Mass moment of inertia                           | 118.3 kgcm <sup>2</sup>                                                  |
| Maximum force on gripper jaw Fz, static          | 2500 N                                                                   |
| Maximum torque on gripper jaw, Mx static         | 125 Nm                                                                   |
| Maximum torque on gripper jaw, My static         | 80 Nm                                                                    |
| Maximum torque on gripper jaw, Mz static         | 100 Nm                                                                   |
| Relubrication interval for guidance elements     | 5 MioCyc                                                                 |

| Feature                               | Value                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------|
| Max. mass per external gripper finger | 420 g                                                                              |
| Product weight                        | 4165 g                                                                             |
| Type of mounting                      | With internal thread and centering sleeve<br>Via through-hole and centering sleeve |
| Pneumatic connection                  | M5                                                                                 |
| Note on materials                     | Free of copper and PTFE<br>RoHS-compliant                                          |
| Housing material                      | Aluminum<br>Smooth anodized                                                        |
| Gripper jaw material                  | Steel<br>Hardened                                                                  |