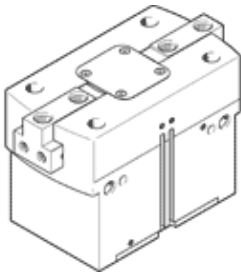


# parallel gripper HGPT-80-A-B-F-G2

Part number: 560239

FESTO

sturdy, with gripping force retention when closing ...-G2.



## Data sheet

| Feature                                   | Value                                                                                                                                                             |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                      | 80                                                                                                                                                                |
| Stroke per gripper jaw                    | 12.5 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              | ≤ 0.05 mm                                                                                                                                                         |
| Number of gripper fingers                 | 2                                                                                                                                                                 |
| Assembly position                         | Any                                                                                                                                                               |
| Mode of operation                         | double-acting                                                                                                                                                     |
| Gripper function                          | Parallel                                                                                                                                                          |
| Gripper force back-up                     | On closing                                                                                                                                                        |
| Design structure                          | Inclined plane<br>guided motion sequence                                                                                                                          |
| Position detection                        | For proximity sensor                                                                                                                                              |
| Operating pressure                        | 4 ... 8 bar                                                                                                                                                       |
| Operating pressure, sealing air           | 0 ... 0.5 bar                                                                                                                                                     |
| Max. operating frequency of gripper       | ≤ 2 Hz                                                                                                                                                            |
| Min. opening time at 6 bar                | 362 ms                                                                                                                                                            |
| Min. closing time at 6 bar                | 178 ms                                                                                                                                                            |
| Operating medium                          | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                                                                                          |
| Note on operating and pilot medium        | Lubricated operation possible (subsequently required for further operation)                                                                                       |
| Corrosion resistance classification CRC   | 2 - Moderate corrosion stress                                                                                                                                     |
| Protection class                          | IP40                                                                                                                                                              |
| Ambient temperature                       | 5 ... 60 °C                                                                                                                                                       |
| Mass moment of inertia                    | 238.336 kgcm <sup>2</sup>                                                                                                                                         |
| Max. force on gripper jaw Fz static       | 7,000 N                                                                                                                                                           |
| Max. torque at gripper Mx static          | 180 Nm                                                                                                                                                            |
| Max. torque at gripper My static          | 220 Nm                                                                                                                                                            |
| Max. torque at gripper Mz static          | 170 Nm                                                                                                                                                            |
| Lubrication interval for guide components | 5 Mio SP                                                                                                                                                          |
| Max. mass per external gripper finger     | 1,830 g                                                                                                                                                           |
| Product weight                            | 6,287 g                                                                                                                                                           |
| Mounting type                             | Internal thread and centring sleeve<br>With through-hole and centring sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin<br>Optional |
| Pneumatic connection, sealing air         | M5                                                                                                                                                                |
| Pneumatic connection                      | G1/4                                                                                                                                                              |
| Materials note                            | Free of copper and PTFE<br>Conforms to RoHS                                                                                                                       |
| Material cover cap                        | High alloy steel, non-corrosive                                                                                                                                   |
| Material housing                          | Aluminium<br>Anodised                                                                                                                                             |
| Material gripper jaws                     | Steel<br>Hardened                                                                                                                                                 |