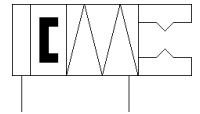
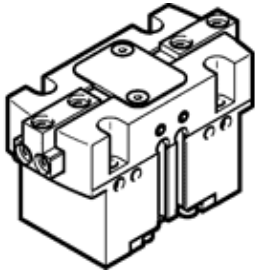


# Parallel gripper HGPT-20-A-B-F-G2

Part number: 560203

FESTO

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



## Data sheet

| Feature                                      | Value                                                                                                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                         | 20                                                                                                                                                                  |
| Stroke per gripper jaw                       | 2 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                 | ≤ 0.04 mm                                                                                                                                                           |
| Number of gripper fingers                    | 2                                                                                                                                                                   |
| Drive system                                 | pneumatic                                                                                                                                                           |
| 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                                                                                                                                                |
| Working pressure                             | 4 ... 8 bar                                                                                                                                                         |
| Working pressure, sealing air                | 0 ... 0.5 bar                                                                                                                                                       |
| Max. operating frequency of gripper          | ≤ 3 Hz                                                                                                                                                              |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 38 ms                                                                                                                                                               |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 14 ms                                                                                                                                                               |
| Max. mass per external gripper finger        | 50 g                                                                                                                                                                |
| 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                                                                                                                                       |
| PWIS conformity                              | VDMA24364-B1/B2-L                                                                                                                                                   |
| Protection class                             | IP40                                                                                                                                                                |
| Ambient temperature                          | 5 ... 60 °C                                                                                                                                                         |
| Mass moment of inertia                       | 0.445 kgcm <sup>2</sup>                                                                                                                                             |
| Max. force on gripper jaw Fz static          | 700 N                                                                                                                                                               |
| Max. torque at gripper Mx static             | 15 Nm                                                                                                                                                               |
| Max. torque at gripper My static             | 15 Nm                                                                                                                                                               |
| Max. torque at gripper Mz static             | 8 Nm                                                                                                                                                                |
| Lubrication interval for guide components    | 5 Mio SP                                                                                                                                                            |
| Product weight                               | 155 g                                                                                                                                                               |
| Mounting type                                | Internal thread and centering sleeve<br>With through-hole and centering sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin<br>Optional |
| Pneumatic connection, sealing air            | M5                                                                                                                                                                  |
| Pneumatic connection                         | M5                                                                                                                                                                  |
| Materials note                               | Conforms to RoHS                                                                                                                                                    |
| Material cover cap                           | High alloy steel, non-corrosive                                                                                                                                     |
| Material housing                             | Anodised aluminium                                                                                                                                                  |
| Material gripper jaws                        | Steel, hardened                                                                                                                                                     |