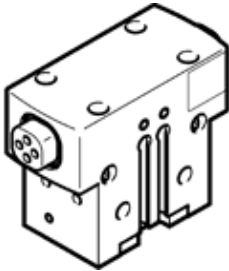


# parallel gripper HGPD-16-A-G1

Part number: 1132937

FESTO

With gripping force backup when opening ...-G1.



## Data sheet

| Feature                                      | Value   |
|--|---|
| Size   | 16  |
| Stroke per gripper jaw                       | 3 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 fingers                    | 2   |
| Drive system                                 | pneumatic   |
| Assembly position                            | Any   |
| Mode of operation                            | double-acting   |
| Gripper function                             | Parallel  |
| Gripper force back-up                        | On opening  |
| 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          | ≤ 3 Hz  |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 15 ms   |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 32 ms   |
| Max. mass per external gripper finger        | 25 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-B2-L  |
| RSBP classification to CD-0033               | F5  |
| Protection class                             | IP65  |
| Ambient temperature                          | 5 ... 60 °C   |
| Mass moment of inertia                       | 0.27 kgcm <sup>2</sup>  |
| Max. torque at gripper Mx static             | 8 Nm  |
| Max. torque at gripper My static             | 4 Nm  |
| Max. torque at gripper Mz static             | 3 Nm  |
| Lubrication interval for guide components    | 5,000,000 Mio SP  |
| Product weight                               | 117 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            | M3  |
| 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   |