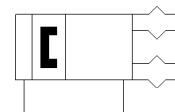
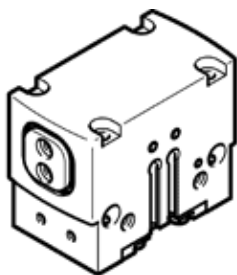


parallel gripper HGPD-20-A

Part number: 1132939

FESTO



Data sheet

| Feature | Value |
|---|---|
| Size | 20 |
| Stroke per gripper jaw | 4 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 | No |
| Design structure | Inclined plane guided motion sequence |
| Position detection | For proximity sensor |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), opening | 159 N |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing | 150 N |
| Operating pressure | 3 ... 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) | 28 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 31 ms |
| Max. mass per external gripper finger | 57 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 |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening | 80 N |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 75 N |
| Mass moment of inertia | 0.4 kgcm ² |
| Max. force on gripper jaw Fz static | 250 N |
| Max. torque at gripper Mx static | 12 Nm |
| Max. torque at gripper My static | 7 Nm |
| Max. torque at gripper Mz static | 6 Nm |
| Lubrication interval for guide components | 5,000,000 Mio SP |
| Product weight | 163 g |
| Mounting type | Internal thread and centring sleeve With through-hole and centring sleeve With through-hole and dowel pin With internal thread and dowel pin Optional |

| Feature | Value |
|-----------------------------------|---------------------------------|
| 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 |