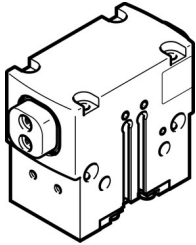


Parallel gripper HGPD-20-A-G1

Part number: 1132940

FESTO



Data sheet

| Feature | Value |
|---|--|
| Size | 20 20 |
| Stroke per gripper jaw | 4 mm |
| Max. interchangeability | ≤0.2 mm |
| Max. gripper jaw angular play ax, ay | ≤0.1 deg |
| Max. gripper jaw backlash Sz | ≤0.02 mm |
| Rotational symmetry | ≤0.2 mm |
| Pneumatic gripper repetition accuracy | ≤0.04 mm |
| Type code | HGPD HGPD |
| Number of gripper jaws | 2 |
| Mounting position | Any Any |
| Mode of operation | Double-acting |
| Gripper function | Parallel Parallel |
| Gripping force backup | On opening |
| Design | Positively driven motion sequence Inclined plane Inclined plane Positively driven motion sequence |
| Position sensing | For proximity sensor For proximity sensor |
| Symbol | 00995947 00995947 |
| Operating pressure | 4 bar ... 8 bar |
| Operating pressure for sealing air | 0 bar ... 0.5 bar |
| Max. operating frequency of pneumatic gripper | ≤3 Hz |
| Min. opening time at 6 bar | 13 ms |
| Min. closing time at 6 bar | 25 ms |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] 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) Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress 2 - Moderate corrosion stress |
| Degree of protection | IP65 IP65 |
| Ambient temperature | 5 °C ... 60 °C |

| Feature | Value |
|--|--|
| Mass moment of inertia | 0.52 kgcm ² |
| Maximum torque on gripper jaw, Mx static | 12 Nm |
| Maximum torque on gripper jaw, My static | 7 Nm |
| Maximum torque on gripper jaw, Mz static | 6 Nm |
| Relubrication interval for guidance elements | 5000000 MioCyc |
| Max. mass per external gripper finger | 57 g |
| Product weight | 182 g |
| Type of mounting | Optionally: With through-hole and dowel pin With internal thread and dowel pin With internal thread and centering sleeve Via through-hole and centering sleeve With internal thread and centering sleeve Via through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin Optionally: |
| Sealing air pneumatic connection | M3 M3 |
| Pneumatic connection | M5 M5 |
| Note on materials | Free of copper and PTFE RoHS-compliant Free of copper and PTFE RoHS-compliant |
| Cover cap material | High-alloy stainless steel High-alloy stainless steel |
| Housing material | Aluminum Anodized Aluminum Anodized |
| Gripper jaw material | Hardened Steel Steel Hardened |