

Three-point gripper HGDT-50-A-F-G2

Part number: 560188

FESTO



Data sheet

| Feature | Value |
|---|--|
| Size | 50 |
| 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 | ≤0.05 mm |
| Rotational symmetry | ≤0.2 mm |
| Pneumatic gripper repetition accuracy | ≤0.03 mm |
| Type code | HGDT |
| Number of gripper jaws | 3 |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Gripper function | 3-point |
| Gripping force backup | During closing |
| Structural design | Inclined plane Positively driven motion sequence |
| Position sensing | For proximity sensor |
| Symbol | 00991895 |
| Operating pressure | 4 bar ... 8 bar |
| Operating pressure for sealing air | 0 bar ... 0.5 bar |
| Max. operating frequency of pneumatic gripper | ≤4 Hz |
| Min. opening time at 6 bar | 88 ms |
| Min. closing time at 6 bar | 65 ms |
| Operating medium | 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) |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| Ambient temperature | 5 °C ... 60 °C |
| Mass moment of inertia | 13.92 kgcm ² |
| Maximum force on gripper jaw Fz, static | 1500 N |
| Maximum torque on gripper jaw, Mx static | 50 Nm |
| Maximum torque on gripper jaw, My static | 30 Nm |
| Maximum torque on gripper jaw, Mz static | 40 Nm |
| Relubrication interval for guidance elements | 5 MioCyc |
| Max. mass per external gripper finger | 160 g |
| Product weight | 1440 g |

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|----------------------------------|--|
| Type of mounting | Optionally: With through-hole and dowel pin With internal thread and dowel pin |
| Sealing air pneumatic connection | M5 |
| Pneumatic connection | G1/8 |
| Note on materials | Free of copper and PTFE RoHS-compliant |
| Cover cap material | High-alloy stainless steel |
| Housing material | Wrought aluminum alloy COMPCOTE-coated |
| Gripper jaw material | Steel Hardened |