

Three-point gripper HGDT-40-A-F

Part number: 560183

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|--|--|
| Size | 40 |
| Stroke per gripper jaw | 3 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 |
| Number of gripper jaws | 3 |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Gripper function | 3-point |
| Structural design | Inclined plane Positively driven motion sequence |
| Position sensing | Via proximity switch |
| Symbol | 00991894 |
| Gripping force per gripper jaw at 6 bar, opening | 1101 N |
| Gripping force per gripper jaw at 6 bar, closing | 990 N |
| Operating pressure | 3 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 | 48 ms |
| Min. closing time at 6 bar | 49 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 |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Ambient temperature | 5 °C ... 60 °C |
| Gripping force per gripper jaw at 6 bar, opening | 367 N |
| Gripping force per gripper jaw at 6 bar, closing | 330 N |
| Mass moment of inertia | 4.37 kgcm ² |
| Maximum force on gripper jaw Fz, static | 800 N |
| Maximum torque on gripper jaw, Mx static | 30 Nm |
| Maximum torque on gripper jaw, My static | 20 Nm |
| Maximum torque on gripper jaw, Mz static | 25 Nm |
| Relubrication interval for guidance elements | 5 MioCyc |

| Feature | Value |
|---------------------------------------|---|
| Max. mass per external gripper finger | 70 g |
| Product weight | 712 g |
| Type of mounting | Alternatively: With through-hole and dowel pin With internal thread and dowel pin |
| Sealing air pneumatic connection | M5 |
| Pneumatic connection | M5 |
| Note on materials | RoHS compliant |
| Cover cap material | high-alloy stainless steel |
| Housing material | Wrought aluminum alloy COMPCOTE-coated |
| Gripper jaw material | Hardened steel |