

Parallel gripper HGPD-16-A-G2

Part number: 1132938

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Size | 16 |
| 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 | ≤0.02 mm |
| Rotational symmetry | ≤0.2 mm |
| Pneumatic gripper repetition accuracy | ≤0.03 mm |
| Number of gripper jaws | 2 |
| Actuator system | Pneumatic |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Gripping force backup | During closing |
| Structural design | Inclined plane Positively driven motion sequence |
| Position sensing | Via proximity switch |
| Symbol | 00991895 |
| 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 | 30 ms |
| Min. closing time at 6 bar | 15 ms |
| Max. mass per external gripper finger | 25 g |
| 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-B2-L |
| Suitability for the production of Li-ion batteries | Metals with more than 5% by mass of copper are excluded from use. This excludes printed circuit boards, cables, electrical connectors and coils. |
| Degree of protection | IP65 |
| Ambient temperature | 5 °C ... 60 °C |
| Mass moment of inertia | 0.27 kgcm ² |
| Maximum torque on gripper jaw, Mx static | 8 Nm |
| Maximum torque on gripper jaw, My static | 4 Nm |
| Maximum torque on gripper jaw, Mz static | 3 Nm |

| Feature | Value |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relubrication interval for guidance elements | 5 MioCyc |
| Product weight | 117 g |
| Type of mounting | Alternatively: With internal thread and centering sleeve Via through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin |
| Sealing air pneumatic connection | M3 |
| Pneumatic connection | M5 |
| Note on materials | RoHS compliant |
| Cover cap material | high-alloy stainless steel |
| Housing material | Anodized aluminum |
| Gripper jaw material | Hardened steel |