# Three-point gripper HGDD-50-A-G2

Part number: 1163045

## Data sheet

| Feature | Value |
|---|---|
| Size | 50 |
| Stroke per gripper jaw | 8 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 |
| Gripping force backup | During closing |
| Structural design | Inclined plane<br>Positively driven motion sequence |
| Position sensing | For proximity sensor |
| 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 | 111 ms |
| Min. closing time at 6 bar | 87 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-B2-L |
| Degree of protection | IP65 |
| Ambient temperature | 5 °C...60 °C |
| Mass moment of inertia | 15.07 kgcm² |
| Maximum force on gripper jaw Fz, static | 1300 N |
| Maximum torque on gripper jaw, Mx static | 45 Nm |
| Maximum torque on gripper jaw, My static | 30 Nm |
| Maximum torque on gripper jaw, Mz static | 30 Nm |
| Relubrication interval for guidance elements | 5 MioCyc |

| Feature | Value |
|---|---|
| Max. mass per external gripper finger | 276 g |
| Product weight | 1495 g |
| Type of mounting | Optionally:<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Sealing air pneumatic connection | M5 |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Cover cap material | High-alloy stainless steel |
| Housing material | Wrought aluminum alloy, smooth-anodized |
| Gripper jaw material | Hardened steel |