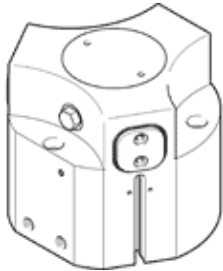


three-point gripper HGDD-80-A-G2

Part number: 1163051

FESTO

With gripping force backup when closing...-G2.



Data sheet

| Feature | Value |
|-------------------------------------------|-----------------------------------------------------------------------------------|
| Size | 80 |
| Stroke per gripper jaw | 12 mm |
| Max. replacement accuracy | ≤ 0.2 mm |
| Max. angular gripper jaw backlash ax,ay | ≤ 0.1 deg |
| Max. gripper jaw backlash Sz | ≤ 0.05 mm |
| Rotationally symmetrical | ≤ 0.2 mm |
| Repetition accuracy, gripper | ≤ 0.05 mm |
| Number of gripper fingers | 3 |
| Assembly position | Any |
| Mode of operation | double-acting |
| Gripper function | 3-point |
| Gripper force back-up | On closing |
| Design structure | Inclined plane guided motion sequence |
| Position detection | For proximity sensor |
| Operating pressure | 4 ... 8 bar |
| Operating pressure, sealing air | 0 ... 0.5 bar |
| Max. operating frequency of gripper | ≤ 4 Hz |
| Min. opening time at 6 bar | 159 ms |
| Min. closing time at 6 bar | 107 ms |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| Protection class | IP65 |
| Ambient temperature | 5 ... 60 °C |
| Mass moment of inertia | 109 kgcm ² |
| Max. force on gripper jaw Fz static | 3,600 N |
| Max. torque at gripper Mx static | 100 Nm |
| Max. torque at gripper My static | 65 Nm |
| Max. torque at gripper Mz static | 75 Nm |
| Lubrication interval for guide components | 5 Mio SP |
| Max. mass per external gripper finger | 790 g |
| Product weight | 4,788 g |
| Mounting type | With through-hole and dowel pin With internal thread and dowel pin Optional |
| Pneumatic connection, sealing air | G1/8 |
| Pneumatic connection | G1/8 |
| Materials note | Conforms to RoHS |
| Material cover cap | High alloy steel, non-corrosive |
| Material housing | Wrought Aluminium alloy Smooth anodised |
| Material gripper jaws | Steel Hardened |