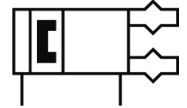
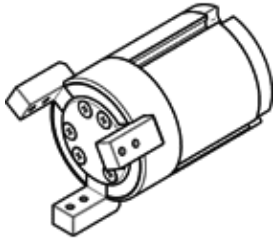


Three-point gripper HGD-50-A

Part number: 161838

FESTO

Self-centering, can be used as internal and external gripper. Magnetic piston for proximity position sensing.



Data sheet

| Feature | Value |
|--|-------------------------------|
| Size | 50 |
| Stroke per gripper jaw | 6 mm |
| Max. replacement accuracy | 0.2 mm |
| Repetition accuracy, gripper | ≤ 0.04 mm |
| Number of gripper fingers | 3 |
| Mode of operation | double-acting |
| Gripper function | 3-point |
| Design structure | Lever |
| Position detection | For proximity sensor |
| Total force at 6 bar, opening | 970 N |
| Total force at 6 bar, closing | 880 N |
| Working pressure | 2 ... 8 bar |
| Max. operating frequency of gripper | 4 Hz |
| Min. opening time at 6 bar | 10 ms |
| Min. closing time at 6 bar | 10 ms |
| Operating medium | Filtered compressed air |
| Corrosion resistance classification CRC | 2 |
| Ambient temperature | 5 ... 60 °C |
| Gripping force per gripper jaw at 6 bar, opening | 323 N |
| Gripping force per gripper jaw at 6 bar, closing | 293 N |
| Max. force on gripper jaw Fz dynamic | 17.3 N |
| Max. force on gripper jaw Fz static | 173 N |
| Max. torque at gripper Mx dynamic | 0.047 Nm |
| Max. torque at gripper Mx static | 4.7 Nm |
| Max. torque at gripper My dynamic | 0.081 Nm |
| Max. torque at gripper My static | 8.1 Nm |
| Max. torque at gripper Mz dynamic | 0.053 Nm |
| Max. torque at gripper Mz static | 5.3 Nm |
| Product weight | 985 g |
| Mounting type | with internal (female) thread |
| Pneumatic connection | G1/8 |
| Materials note | Free of copper and PTFE |
| Materials information for cover cap | POM |
| Materials information, housing | Aluminum Nickel plated |
| Materials information for gripper jaws | Tool steel Nickel plated |