# Parallel gripper
# HGPD-80-A-G2

Part number: 1132959



## Data sheet

| Feature | Value |
|---|---|
| Size | 80 |
| Stroke per gripper jaws | 20 mm |
| Max. replacement accuracy | 0.2 mm |
| Max. angular gripper jaw backlash ax, ay | 0.1 deg |
| Max. gripper jaw backlash Sz | 0.02 mm |
| Rotationally symmetrical | 0.2 mm |
| Repetition accuracy, gripper | 0.05 mm |
| Number of gripper jaws | 2 |
| Drive system | Pneumatic |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Gripper force back-up | During closing |
| Design | Wedge-shaped drive<br>Force pilot operated motion sequence |
| Position detection | Via proximity switch |
| Operating pressure | 4 bar...8 bar |
| Operating pressure of blocked air | 0 bar...0.5 bar |
| Max. operating frequency of gripper | 2 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 379 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 240 ms |
| Max. mass per external gripper finger | 2170 g |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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 | 319.95 kgcm² |
| Max. torque at gripper Mx static | 170 Nm |
| Max. torque at gripper My static | 130 Nm |

| Feature | Value |
|---|---|
| Max. torque at gripper Mz static | 110 Nm |
| Lubrication interval for guide components | 5 MioCyc |
| Product weight | 7484 g |
| Type of mounting | Either:<br>Via female thread and centring sleeve<br>Via through-hole and centring sleeve<br>Via through-hole and dowel pin<br>Via female thread and dowel pin |
| Pneumatic connection, blocked air | M5 |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Material cover cap | High-alloy stainless steel |
| Material housing | Anodised aluminium |
| Material gripper jaws | Hardened steel |