

Parallel gripper HGPL-14-80-A-B

Part number: 3361482

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|--|
| Size | 14 |
| Stroke per gripper jaws | 80 mm |
| Max. replacement accuracy | <0.2 mm |
| Max. angular gripper jaw backlash ax, ay | <0.2 deg |
| Max. gripper jaw backlash Sz | <0.05 mm |
| Rotationally symmetrical | ≤0.2 mm |
| Repetition accuracy, gripper | <0.03 mm |
| Number of gripper jaws | 2 |
| Drive system | Pneumatic |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Gripper force back-up | None |
| Design | Twin piston Guidance Piston gate valve T-shape Rack and pinion |
| Position detection | Via proximity switch |
| Symbol | 00991894 |
| Operating pressure | 3 bar ... 8 bar |
| Max. operating frequency of gripper | <1 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 286 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 270 ms |
| Max. mass per external gripper finger | 80 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-B1/B2-L |
| Ambient temperature | 5 °C ... 60 °C |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi) | 126 N |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi) | 158 N |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 63 N |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 79 N |
| Mass moment of inertia | 21.93 kgcm ² |

| Feature | Value |
|---|---|
| Max. force on gripper jaw Fz static | 500 N |
| Max. torque at gripper Mx static | 35 Nm |
| Max. torque at gripper My static | 35 Nm |
| Max. torque at gripper Mz static | 35 Nm |
| Lubrication interval for guide components | 5 MioCyc |
| Product weight | 720 g |
| Type of mounting | Via female thread and centring sleeve Via through-hole and centring sleeve |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Material housing | Smooth-anodised wrought aluminium alloy |
| Material gripper jaws | Hardened steel |