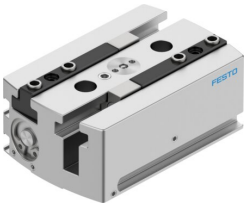
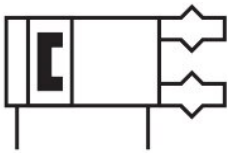
# Parallel gripper
# HGPL-14-20-A-B

Part number: 3361479





## Data sheet

| Feature | Value |
|---|---|
| Size | 14 |
| Stroke per gripper jaw | 20 mm |
| Max. interchangeability | 0.2 mm |
| Max. gripper jaw angular play ax, ay | 0.2 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 | 2 |
| Actuator system | Pneumatic |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Gripping force backup | None |
| Structural design | Double piston<br>Guide<br>Piston gate valve<br>T-shape<br>Gear rack/pinion |
| Position sensing | Via proximity switch |
| Operating pressure | 3 bar...8 bar |
| Max. operating frequency of pneumatic gripper | 1 Hz |
| Min. opening time at 6 bar | 120 ms |
| Min. closing time at 6 bar | 110 ms |
| Max. mass per external gripper finger | 80 g |
| 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-B1/B2-L |
| Ambient temperature | 5 °C...60 °C |
| Gripping force per gripper jaw at 6 bar, opening | 126 N<br>63 N |
| Gripping force per gripper jaw at 6 bar, closing | 158 N<br>79 N |

| Feature | Value |
|---|---|
| Mass moment of inertia | 1.4 kgcm² |
| Maximum force on gripper jaw Fz, static | 500 N |
| Maximum torque on gripper jaw, Mx static | 35 Nm |
| Maximum torque on gripper jaw, My static | 35 Nm |
| Maximum torque on gripper jaw, Mz static | 35 Nm |
| Relubrication interval for guidance elements | 5 MioCyc |
| Product weight | 305 g |
| Type of mounting | With internal thread and centering sleeve<br>Via through-hole and centering sleeve |
| Pneumatic connection | M5 |
| Note on materials | RoHS compliant |
| Housing material | Wrought aluminum alloy, smooth-anodized |
| Gripper jaw material | Hardened steel |