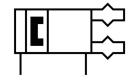
Parallel gripper DHPL-20-100-P-A

Part number: 8112219





FESTO

General operating condition

Data sheet

| Feature | Value |
|--|--|
| Size | 20 |
| Complete stroke | 100 mm |
| Stroke per gripper jaw | 50 mm |
| Max. interchangeability | ≤0.2 mm |
| Max. gripper jaw angular play ax, ay | ≤0.14 deg |
| Max. gripper jaw backlash Sz | ≤0.068 mm |
| Rotational symmetry | ≤0.2 mm |
| Pneumatic gripper repetition accuracy | ≤0.03 mm |
| Number of gripper jaws | 2 |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Gripper function | Parallel |
| Structural design | Gear rack/pinion |
| Guide | Sliding guide |
| Position sensing | For proximity sensor |
| Symbol | 00991894 |
| Operating pressure | 0.15 MPa 0.8 MPa |
| Operating pressure | 1.5 bar 8 bar |
| Operating pressure | 21.75 psi 116 psi |
| Max. operating frequency of pneumatic gripper | ≤1.5 Hz |
| Min. opening time at 6 bar | 189 ms |
| Min. closing time at 6 bar | 274 ms |
| Max. mass per external gripper finger | 170 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) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Degree of protection | IP54 |
| Ambient temperature | -10 °C 60 °C |
| Gripping force per gripper jaw at 6 bar, opening | 316 N |
| Gripping force per gripper jaw at 6 bar, closing | 238 N |
| Gripping force per gripper jaw at 6 bar, opening | 158 N |
| Gripping force per gripper jaw at 6 bar, closing | 119 N |
| Mass moment of inertia | 49.3 kgcm ² 104.5 kgcm ² |

| Feature | Value |
|--|---|
| Maximum force on gripper jaw Fz, static | 280 N |
| Maximum torque on gripper jaw, Mx static | 5 Nm |
| Maximum torque on gripper jaw, My static | 5 Nm |
| Maximum torque on gripper jaw, Mz static | 5 Nm |
| Maintenance interval | Life-time lubrication |
| Product weight | 1407 g |
| Type of mounting | Optionally: Direct fastening via thread With through-hole |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Cover cap material | Wrought aluminum alloy, anodized |
| Cover material | Wrought aluminum alloy, anodized |
| End plate material | Wrought aluminum alloy, anodized |
| Housing material | Wrought aluminum alloy, anodized |
| Gripper jaw material | Anodized wrought aluminum alloy |
| Piston seal material | TPE-U(PU) |
| Piston rod material | High-alloy stainless steel |
| O-ring material | NBR |
| Material of screws | Steel, galvanized |
| Gear rack material | High-alloy stainless steel |
| Gear wheel material | Sintered bronze |