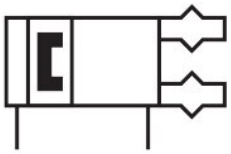
# Parallel gripper
# DHPL-40-200-P-A

Part number: 8112226





## Data sheet

| Feature | Value |
|---|---|
| Size | 40 |
| Complete stroke | 200 mm |
| Stroke per gripper jaw | 100 mm |
| Max. interchangeability | 0.2 mm |
| Max. gripper jaw angular play ax, ay | 0.1 deg |
| Max. gripper jaw backlash Sz | 0.065 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 |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Gripper function | Parallel |
| Gripping force backup | None |
| Structural design | Gear rack/pinion |
| Guide | Plain-bearing guide |
| Position sensing | Via proximity switch |
| Operating pressure | 0.15 MPa...0.8 MPa<br>1.5 bar...8 bar<br>21.75 psi...116 psi |
| Max. operating frequency of pneumatic gripper | 0.6 Hz |
| Min. opening time at 6 bar | 427 ms |
| Min. closing time at 6 bar | 524 ms |
| Max. mass per external gripper finger | 801 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 | 1180 N |

| Feature | Value |
|---|---|
| | 590 N |
| Gripping force per gripper jaw at 6 bar, closing | 992 N<br>496 N |
| Mass moment of inertia | 786.9 kgcm²...1625 kgcm² |
| Maximum force on gripper jaw Fz, static | 750 N |
| Maximum torque on gripper jaw, Mx static | 22 Nm |
| Maximum torque on gripper jaw, My static | 22 Nm |
| Maximum torque on gripper jaw, Mz static | 22 Nm |
| Maintenance interval | Lifetime lubrication |
| Product weight | 6480 g |
| Type of mounting | Alternatively:<br>Direct fastening via thread<br>With through-hole |
| Pneumatic connection | G1/8 |
| 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 | Wrought aluminum alloy, anodized |
| Piston seal material | TPE-U(PU) |
| Piston rod material | high-alloy stainless steel |
| O-ring material | NBR |
| Material of screws | Galvanized steel |
| Gear rack material | high-alloy stainless steel |
| Gear wheel material | Sintered bronze |