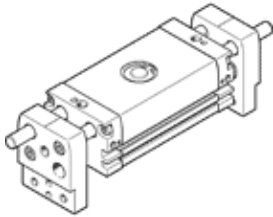


Parallel gripper DHPL-20-100-P-A

Part number: 8112219

FESTO



Data sheet

| Feature | Value |
|---|---|
| Size | 20 |
| Total stroke | 100 mm |
| Stroke per gripper jaw | 50 mm |
| Max. replacement accuracy | ≤ 0.2 mm |
| Max. angular gripper jaw backlash ax,ay | ≤ 0.14 deg |
| Max. gripper jaw backlash Sz | ≤ 0.068 mm |
| Rotationally symmetrical | ≤ 0.2 mm |
| Repetition accuracy, gripper | ≤ 0.03 mm |
| Number of gripper fingers | 2 |
| Assembly position | Any |
| Mode of operation | double-acting |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Gripper function | Parallel |
| Design structure | Rack and pinion |
| Guide | Plain-bearing guide |
| Position detection | For proximity sensor |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), opening | 316 N |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing | 238 N |
| Operating pressure MPa | 0.15 ... 0.8 MPa |
| Working pressure | 1.5 ... 8 bar |
| Operating pressure | 21.75 ... 116 psi |
| Max. operating frequency of gripper | ≤ 1.5 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 189 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 274 ms |
| Max. mass per external gripper finger | 170 g |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Protection class | IP54 |
| Ambient temperature | -10 ... 60 °C |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening | 158 N |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 119 N |
| Mass moment of inertia | 49.3 ... 104.5 kgcm ² |
| Max. force on gripper jaw Fz static | 280 N |
| Max. torque at gripper Mx static | 5 Nm |
| Max. torque at gripper My static | 5 Nm |
| Max. torque at gripper Mz static | 5 Nm |
| Maintenance interval | Life-time lubrication |
| Product weight | 1,407 g |
| Mounting type | Direct mounting via threads with through hole Optional |
| Pneumatic connection | M5 |
| Materials note | Conforms to RoHS |

| Feature | Value |
|-----------------------|----------------------------------|
| Material cover cap | Anodised wrought aluminium alloy |
| Material cover | Anodised wrought aluminium alloy |
| Material end plate | Anodised wrought aluminium alloy |
| Material housing | Anodised wrought aluminium alloy |
| Material gripper jaws | Anodised wrought aluminium alloy |
| Material piston seal | TPE-U(PU) |
| Material piston rod | High alloy steel, non-corrosive |
| Material o-ring | NBR |
| Material screws | Galvanized steel |
| Gear rack material | High alloy steel, non-corrosive |
| Gear material | Sintered bronze |