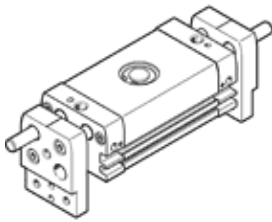


parallel gripper DHPL-16-80-P-A

Part number: 8112218

FESTO



Data sheet

| Feature | Value |
|---|---|
| Size | 16 |
| Total stroke | 80 mm |
| Stroke per gripper jaw | 40 mm |
| Max. replacement accuracy | ≤ 0.2 mm |
| Max. angular gripper jaw backlash ax,ay | ≤ 0.15 deg |
| Max. gripper jaw backlash Sz | ≤ 0.072 mm |
| Rotationally symmetrical | ≤ 0.2 mm |
| Repetition accuracy, gripper | ≤ 0.03 mm |
| Number of gripper fingers | 2 |
| Drive system | pneumatic |
| Assembly position | Any |
| Mode of operation | double-acting |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Gripper function | Parallel |
| Gripper force back-up | No |
| 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 | 190 N |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing | 142 N |
| Operating pressure MPa | 0.15 ... 0.8 MPa |
| Operating pressure | 1.5 ... 8 bar 21.75 ... 116 psi |
| Max. operating frequency of gripper | ≤ 1.5 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 157 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 221 ms |
| Max. mass per external gripper finger | 93 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 | 95 N |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 71 N |
| Mass moment of inertia | 9.7 ... 12.6 kgcm ² |
| Max. force on gripper jaw Fz static | 240 N |
| Max. torque at gripper Mx static | 3.5 Nm |
| Max. torque at gripper My static | 3.5 Nm |
| Max. torque at gripper Mz static | 3.5 Nm |
| Maintenance interval | Life-time lubrication |
| Product weight | 802 g |
| Mounting type | Direct mounting via threads with through hole Optional |

| Feature | Value |
|-----------------------|----------------------------------|
| Pneumatic connection | M5 |
| Materials note | Conforms to RoHS |
| 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 | Galvanised steel |
| Gear rack material | High alloy steel, non-corrosive |
| Gear material | Sintered bronze |