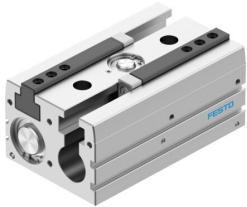


Parallel gripper HPPL-40-120-A-F1A

Part number: 8202626

FESTO



Data sheet

| Feature | Value |
|--|--|
| Size | 40 |
| Complete stroke | 120 mm |
| Stroke per gripper jaw | 60 mm |
| Max. gripper jaw angular play ax, ay | 0.2 deg |
| Max. gripper jaw backlash Sz | 0.05 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, without fixed metal stop |
| Gripper function | Parallel |
| Gripping force backup | Without |
| Structural design | Twin piston Guide Piston gate valve T-shape Gear rack/pinion |
| Guide | Heavy-duty guide |
| Position sensing | For proximity sensor |
| Variants | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Operating pressure | 0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi |
| Min. opening time at 6 bar | 377 ms |
| Min. closing time at 6 bar | 295 ms |
| Max. mass per external gripper finger | 420 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) |
| Shock resistance | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |

| Feature | Value |
|---|--|
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Vibration resistance | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Degree of protection | IP40 |
| Ambient temperature | -10 °C...80 °C |
| Gripping force per gripper jaw at 6 bar, opening | 1174 N 587 N |
| Gripping force per gripper jaw at 6 bar, closing | 1310 N 656 N |
| Theoretical total gripping force at 0 mm, 0.6 MPa (6 bar, 87 psi) open | 1240 N |
| Theoretical total gripping force at 0 mm, 0.6 MPa (6 bar, 87 psi) close | 1376 N |
| Theoretical opening gripping force per Gripper jaw at 0 mm, 0.6 MPa (6 bar, 87 psi) | 620 N |
| Close theoretical gripping force per Gripper jaw at 0 mm, 0.6 MPa (6 bar, 87 psi) | 688 N |
| Mass moment of inertia | 114.77 kgcm ² |
| Max. force Fz | 3000 N |
| Maximum torque on gripper jaw, Mx static | 125 Nm |
| Maximum torque on gripper jaw, My static | 80 Nm |
| Maximum torque on gripper jaw, Mz static | 100 Nm |
| Product weight | 3570 g |
| Type of mounting | With internal thread and centering sleeve Via through-hole and centering sleeve |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant Copper-free |
| Cover cap material | Wrought aluminum alloy, anodized |
| End plate material | Wrought aluminum alloy, anodized |
| Housing material | Wrought aluminum alloy, anodized |
| Gripper jaw material | High-alloy stainless steel |
| Material of piston | Wrought aluminum alloy, anodized |
| Piston seal material | TPE-U(PU) |
| Piston rod material | High-alloy stainless steel |
| O-ring material | NBR |
| Material of screws | Steel, chemically nickel-plated |
| Gear wheel material | High-alloy steel |
| Gripper finger material | Wrought aluminum alloy, anodized |