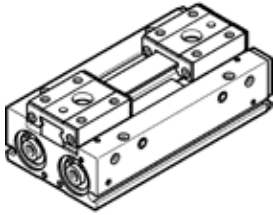


parallel gripper HPPF-16-16-A

Part number: 8105829

FESTO



Data sheet

| Feature | Value |
|---|--|
| Size | 16 |
| Total stroke | 16 mm |
| Stroke per gripper jaw | 8 mm |
| Max. angular gripper jaw backlash ax,ay | 0 deg |
| Max. gripper jaw backlash Sz | 0 mm |
| Repetition accuracy, gripper | ≤ 0.06 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 | Flat mounting of gripper fingers Rack and pinion guided motion sequence |
| Guide | Ball guide |
| Position detection | For proximity sensor |
| Variants | Recommended for production facilities for the manufacture of lithium-ion batteries |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), opening | 241.28 N |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing | 241.28 N |
| Operating pressure MPa | 0.1 ... 0.7 MPa |
| Operating pressure | 1 ... 7 bar 14.5 ... 101.5 psi |
| Max. operating frequency of gripper | 1 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 55 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 47 ms |
| 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 | 0 - No corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 7 |
| Ambient temperature | -10 ... 60 °C |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening | 120.64 N |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 120.64 N |
| Max. force on gripper jaw Fz static | 176 N |
| Max. torque Mx | 2.8 Nm |
| Max. torque My | 1.4 Nm |
| Max. torque Mz | 1.4 Nm |
| Product weight | 366 g |
| Mounting type | Direct mounting via through-holes Direct mounting via threads |
| Pneumatic connection | M5 |

| Feature | Value |
|-----------------------|----------------------------------|
| Materials note | Conforms to RoHS |
| Material cover cap | Anodised wrought aluminium alloy |
| Material cover | Anodised wrought aluminium alloy |
| Material end plate | High alloy steel, non-corrosive |
| Material housing | Anodised wrought aluminium alloy |
| Material gripper jaws | High alloy steel |
| Material piston seal | TPE-U(PU) |
| Material o-ring | NBR |
| Material screws | Coated steel |
| Gear rack material | High alloy steel, non-corrosive |