

Parallel gripper DHPC-16-A-S-2

Part number: 8116787

FESTO



Data sheet

| Feature | Value |
|---|---|
| Size | 16 |
| Stroke per gripper jaw | 3 mm |
| Max. replacement accuracy | 0.2 mm |
| Max. angular gripper jaw backlash ax,ay | 0 deg |
| Max. gripper jaw backlash Sz | 0 mm |
| Rotationally symmetrical | ≤ 0.2 mm |
| Repetition accuracy, gripper | ≤ 0.02 mm |
| Number of gripper fingers | 2 |
| Drive system | pneumatic |
| Assembly position | Any |
| Mode of operation | double-acting |
| Gripper function | Parallel |
| Gripper force back-up | No |
| Design structure | Connection direction at side Flat mounting of gripper fingers Lever 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 | 125.4 N |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing | 107.8 N |
| Operating pressure MPa | 0.1 ... 0.8 MPa |
| Working pressure | 1 ... 8 bar |
| Operating pressure | 14.5 ... 116 psi |
| Max. operating frequency of gripper | 3 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 29 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 31 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-B2-L |
| RSBP classification to CD-0033 | F1a |
| Ambient temperature | -10 ... 60 °C |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening | 62.7 N |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 53.9 N |
| Mass moment of inertia | 0.147 kgcm ² |
| Max. force on gripper jaw Fz static | 49 N |
| Max. torque at gripper Mx static | 0.34 Nm |
| Max. torque at gripper My static | 0.68 Nm |
| Max. torque at gripper Mz static | 0.34 Nm |
| Product weight | 113 g |
| Mounting type | Direct mounting via through-holes Direct mounting via threads |

| Feature | Value |
|-----------------------|---|
| | With through-hole and dowel pin With internal thread and dowel pin Optional |
| Pneumatic connection | M3 |
| Materials note | Conforms to RoHS |
| Material housing | Anodised aluminium |
| Material gripper jaws | High alloy steel, non-corrosive |