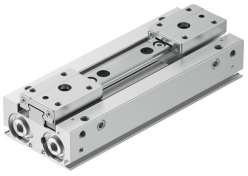
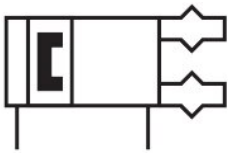
# Parallel gripper
# HPPF-12-48-A

Part number: 8139792





## Data sheet

| Feature | Value |
|---|---|
| Size | 12 |
| Complete stroke | 48 mm |
| Stroke per gripper jaw | 24 mm |
| Max. gripper jaw angular play ax, ay | 0 deg |
| Max. gripper jaw backlash Sz | 0 mm |
| Pneumatic gripper repetition accuracy | 0.02 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 |
| Gripper function | Parallel |
| Gripping force backup | None |
| Structural design | Flat mounting type for gripper fingers<br>Gear rack/pinion<br>Positively driven motion sequence |
| Guide | Ball guide |
| Position sensing | Via proximity switch |
| 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 | 0.1 MPa...0.7 MPa<br>1 bar...7 bar<br>14.5 psi...101.5 psi |
| Max. operating frequency of pneumatic gripper | 2 Hz |
| Min. opening time at 6 bar | 121 ms |
| Min. closing time at 6 bar | 105 ms |
| Max. mass per external gripper finger | 130 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) |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 Zone III |

| Feature | Value |
|---|---|
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Ambient temperature | -10 °C...60 °C |
| Gripping force per gripper jaw at 6 bar, opening | 120.3 N<br>60.15 N |
| Gripping force per gripper jaw at 6 bar, closing | 120.3 N<br>60.15 N |
| Maximum force on gripper jaw Fz, static | 100 N |
| Max. torque Mx | 2.2 Nm |
| Max. torque My | 1.12 Nm |
| Max. torque Mz | 1.12 Nm |
| Product weight | 305 g |
| Type of mounting | Direct mounting via through-hole<br>Direct fastening via thread |
| Pneumatic connection | M5 |
| Note on materials | RoHS compliant |
| Cover cap material | Wrought aluminum alloy, anodized |
| Cover material | Wrought aluminum alloy, anodized |
| End plate material | high-alloy stainless steel |
| Housing material | Wrought aluminum alloy, anodized |
| Gripper jaw material | High-alloy steel |
| Piston seal material | TPE-U(PU) |
| O-ring material | NBR |
| Material of screws | Coated steel |
| Gear rack material | high-alloy stainless steel |