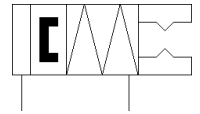
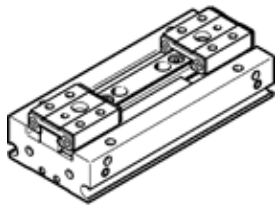


# parallel gripper HPPF-8-32-A

Part number: 8128415

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 8  |
| Total stroke  | 32 mm  |
| Stroke per gripper jaw  | 16 mm  |
| Max. angular gripper jaw backlash ax,ay                           | 0 deg  |
| Max. gripper jaw backlash Sz                                      | 0 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  | Flat mounting of gripper fingers<br>Rack and pinion<br>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          | 60.32 N  |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing          | 60.32 N  |
| Operating pressure MPa  | 0.15 ... 0.7 MPa   |
| Operating pressure  | 1.5 ... 7 bar<br>21.75 ... 101.5 psi   |
| Max. operating frequency of gripper                               | 2 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                      | 46 ms  |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                      | 44 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 | 30.16 N  |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 30.16 N  |
| Max. force on gripper jaw Fz static                               | 58 N   |
| Max. torque Mx  | 0.6 Nm   |
| Max. torque My  | 0.3 Nm   |
| Max. torque Mz  | 0.3 Nm   |
| Product weight  | 122 g  |
| Mounting type   | Direct mounting via through-holes<br>Direct mounting via threads                   |
| Pneumatic connection  | M3   |

| 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  |