

# Parallel gripper HPPF-8-8-A-S

Part number: 8134368

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 8  |
| Complete stroke                                    | 8 mm   |
| Stroke per gripper jaw                             | 4 mm   |
| Max. gripper jaw angular play ax, ay               | 0 deg  |
| Max. gripper jaw backlash Sz                       | 0 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   |
| 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   |
| Symbol   | 00991894   |
| 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                                 | 0.15 MPa ... 0.7 MPa   |
| Operating pressure                                 | 1.5 bar ... 7 bar  |
| Operating pressure                                 | 21.75 psi ... 101.5 psi  |
| Max. operating frequency of pneumatic gripper      | 2 Hz   |
| Min. opening time at 6 bar                         | 15 ms  |
| Min. closing time at 6 bar                         | 12 ms  |
| Max. mass per external gripper finger              | 20 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   |
| 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   |

| Feature  | Value   |
|--|---|
| Gripping force per gripper jaw at 6 bar, opening | 54.44 N   |
| Gripping force per gripper jaw at 6 bar, closing | 54.44 N   |
| Gripping force per gripper jaw at 6 bar, opening | 27.22 N   |
| Gripping force per gripper jaw at 6 bar, closing | 27.22 N   |
| Maximum force on gripper jaw Fz, static          | 60 N  |
| Max. torque Mx                                   | 0.9 Nm  |
| Max. torque My                                   | 0.4 Nm  |
| Max. torque Mz                                   | 0.4 Nm  |
| Product weight                                   | 78 g  |
| Type of mounting                                 | Direct mounting via through-hole<br>Direct fastening via thread |
| Pneumatic connection                             | M3  |
| 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                                      |