

# Parallel gripper HPPF-8-16-A-S

Part number: 8134375

FESTO



 General operating condition

## Data sheet

| Feature                                            | Value                                                                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                               | 8                                                                                                                                                                                                                              |
| Complete stroke                                    | 16 mm                                                                                                                                                                                                                          |
| Stroke per gripper jaw                             | 8 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                              | Without                                                                                                                                                                                                                        |
| Structural design                                  | Positively driven motion sequence                                                                                                                                                                                              |
| Guide                                              | Ball guide                                                                                                                                                                                                                     |
| Position sensing                                   | For proximity sensor                                                                                                                                                                                                           |
| 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                         | 32 ms                                                                                                                                                                                                                          |
| Min. closing time at 6 bar                         | 31 ms                                                                                                                                                                                                                          |
| 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)                                                                                                                                                             |
| Cleanroom class                                    | Class 7 according to ISO 14644-1                                                                                                                                                                                               |
| Ambient temperature                                | -10 °C ... 60 °C                                                                                                                                                                                                               |
| Gripping force per gripper jaw at 6 bar, opening   | 54.44 N                                                                                                                                                                                                                        |
| Gripping force per gripper jaw at 6 bar, closing   | 54.44 N                                                                                                                                                                                                                        |

| Feature                                          | Value                                                           |
|--------------------------------------------------|-----------------------------------------------------------------|
| 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                                   | 95 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                               | Steel, coated                                                   |
| Gear rack material                               | High-alloy stainless steel                                      |