

# Three-point gripper DHDS-16-A-NC

Part number: 1259492

FESTO



 General operating condition

## Data sheet

| Feature                                            | Value                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                               | 16                                                                                                                                                                                                                                                                    |
| Stroke per gripper jaw                             | 2.5 mm                                                                                                                                                                                                                                                                |
| Max. interchangeability                            | ≤0.2 mm                                                                                                                                                                                                                                                               |
| Max. gripper jaw angular play ax, ay               | ≤0.5 deg                                                                                                                                                                                                                                                              |
| Max. gripper jaw backlash Sz                       | ≤0.02 mm                                                                                                                                                                                                                                                              |
| Rotational symmetry                                | ≤0.2 mm                                                                                                                                                                                                                                                               |
| Pneumatic gripper repetition accuracy              | ≤0.04 mm                                                                                                                                                                                                                                                              |
| Number of gripper jaws                             | 3                                                                                                                                                                                                                                                                     |
| Mounting position                                  | Any                                                                                                                                                                                                                                                                   |
| Mode of operation                                  | Double-acting                                                                                                                                                                                                                                                         |
| Gripper function                                   | 3-point                                                                                                                                                                                                                                                               |
| Gripping force backup                              | During closing                                                                                                                                                                                                                                                        |
| Structural design                                  | Positively driven motion sequence                                                                                                                                                                                                                                     |
| Position sensing                                   | For Hall sensor                                                                                                                                                                                                                                                       |
| Symbol                                             | 00995947                                                                                                                                                                                                                                                              |
| Operating pressure                                 | 4 bar ... 8 bar                                                                                                                                                                                                                                                       |
| Max. operating frequency of pneumatic gripper      | ≤4 Hz                                                                                                                                                                                                                                                                 |
| Min. opening time at 6 bar                         | 31 ms                                                                                                                                                                                                                                                                 |
| Min. closing time at 6 bar                         | 34 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)                   | 1 - Low corrosion stress                                                                                                                                                                                                                                              |
| LABS (PWIS) conformity                             | VDMA24364-B2-L                                                                                                                                                                                                                                                        |
| Suitability for the production of Li-ion batteries | Metals with more than 1% by mass of copper are excluded from use.<br>Circuit boards, Lines, electrical push-in connectors and Coils Metals with more than 1% copper as an alloy component are excluded from use.<br>Exceptions are printed circuit boards, cables, el |
| Ambient temperature                                | 5 °C ... 60 °C                                                                                                                                                                                                                                                        |
| Mass moment of inertia                             | 0.139 kgcm <sup>2</sup>                                                                                                                                                                                                                                               |
| Maximum force on gripper jaw Fz, static            | 50 N                                                                                                                                                                                                                                                                  |
| Maximum torque on gripper jaw, Mx static           | 2 Nm                                                                                                                                                                                                                                                                  |
| Maximum torque on gripper jaw, My static           | 2 Nm                                                                                                                                                                                                                                                                  |
| Maximum torque on gripper jaw, Mz static           | 2 Nm                                                                                                                                                                                                                                                                  |
| Relubrication interval for guidance elements       | 10 MioCyc                                                                                                                                                                                                                                                             |
| Max. mass per external gripper finger              | 50 g                                                                                                                                                                                                                                                                  |
| Product weight                                     | 99 g                                                                                                                                                                                                                                                                  |

| Feature              | Value                                 |
|----------------------|---------------------------------------|
| Type of mounting     | With internal thread and dowel pin    |
| Pneumatic connection | M3                                    |
| Note on materials    | RoHS-compliant                        |
| Cover cap material   | PA                                    |
| Housing material     | Wrought aluminum alloy, hard-anodized |
| Gripper jaw material | High-alloy stainless steel            |