

# Parallel gripper DHPS-35-A

Part number: 1254052

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                            | Value                                                                                                                                                                                                                                                           |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                               | 35                                                                                                                                                                                                                                                              |
| Stroke per gripper jaw                             | 12.5 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              | <0.02 mm                                                                                                                                                                                                                                                        |
| Number of gripper jaws                             | 2                                                                                                                                                                                                                                                               |
| Actuator system                                    | Pneumatic                                                                                                                                                                                                                                                       |
| Mounting position                                  | Any                                                                                                                                                                                                                                                             |
| Mode of operation                                  | Double-acting                                                                                                                                                                                                                                                   |
| Gripper function                                   | Parallel                                                                                                                                                                                                                                                        |
| Gripping force backup                              | Without                                                                                                                                                                                                                                                         |
| Structural design                                  | Positively driven motion sequence                                                                                                                                                                                                                               |
| Guide                                              | Sliding guide                                                                                                                                                                                                                                                   |
| Position sensing                                   | For proximity sensor                                                                                                                                                                                                                                            |
| Symbol                                             | 00991894                                                                                                                                                                                                                                                        |
| Operating pressure                                 | 0.2 MPa ... 0.8 MPa                                                                                                                                                                                                                                             |
| Operating pressure                                 | 2 bar ... 8 bar                                                                                                                                                                                                                                                 |
| Operating pressure                                 | 29 psi ... 116 psi                                                                                                                                                                                                                                              |
| Max. operating frequency of pneumatic gripper      | 2 Hz                                                                                                                                                                                                                                                            |
| Min. opening time at 6 bar                         | 95 ms                                                                                                                                                                                                                                                           |
| Min. closing time at 6 bar                         | 123 ms                                                                                                                                                                                                                                                          |
| Max. mass per external gripper finger              | 450 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)                   | 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. Circuit boards, Lines, electrical push-in connectors and Coils Metals with more than 1% copper as an alloy component are excluded from use. Exceptions are printed circuit boards, cables, el |
| Ambient temperature                                | 5 °C ... 60 °C                                                                                                                                                                                                                                                  |
| Gripping force per gripper jaw at 6 bar, opening   | 970 N                                                                                                                                                                                                                                                           |
| Gripping force per gripper jaw at 6 bar, closing   | 910 N                                                                                                                                                                                                                                                           |
| Gripping force per gripper jaw at 6 bar, opening   | 483 N                                                                                                                                                                                                                                                           |

| Feature                                          | Value                                 |
|--------------------------------------------------|---------------------------------------|
| Gripping force per gripper jaw at 6 bar, closing | 450 N                                 |
| Mass moment of inertia                           | 12.7 kgcm <sup>2</sup>                |
| Maximum force on gripper jaw Fz, static          | 450 N                                 |
| Maximum torque on gripper jaw, Mx static         | 50 Nm                                 |
| Maximum torque on gripper jaw, My static         | 50 Nm                                 |
| Maximum torque on gripper jaw, Mz static         | 50 Nm                                 |
| Relubrication interval for guidance elements     | 10 MioCyc                             |
| Product weight                                   | 1285 g                                |
| Type of mounting                                 | Via through-hole and centering sleeve |
| Pneumatic connection                             | G1/8                                  |
| Note on materials                                | RoHS-compliant                        |
| Cover cap material                               | PA                                    |
| Housing material                                 | Wrought aluminum alloy, hard-anodized |
| Gripper jaw material                             | High-alloy stainless steel            |