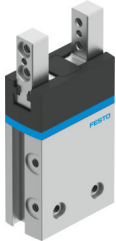


# Parallel gripper DHPS-10-A

Part number: 1254040

FESTO



## Data sheet

| Feature                                            | Value                                                                                                                                               |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                               | 10                                                                                                                                                  |
| Stroke per gripper jaw                             | 3 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                                                                                                                                                   |
| Mounting position                                  | Any                                                                                                                                                 |
| Mode of operation                                  | Double-acting                                                                                                                                       |
| Gripper function                                   | Parallel                                                                                                                                            |
| Structural design                                  | Lever<br>Positively driven motion sequence                                                                                                          |
| Guide                                              | Plain-bearing guide                                                                                                                                 |
| Position sensing                                   | Via proximity switch                                                                                                                                |
| Operating pressure                                 | 0.2 MPa...0.8 MPa<br>2 bar...8 bar<br>29 psi...116 psi                                                                                              |
| Max. operating frequency of pneumatic gripper      | 4 Hz                                                                                                                                                |
| Min. opening time at 6 bar                         | 21 ms                                                                                                                                               |
| Min. closing time at 6 bar                         | 28 ms                                                                                                                                               |
| Max. mass per external gripper finger              | 60 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 5% by mass of copper are excluded from use.<br>This excludes printed circuit boards, cables, electrical connectors and coils. |
| Ambient temperature                                | 5 °C...60 °C                                                                                                                                        |
| Gripping force per gripper jaw at 6 bar, opening   | 80 N<br>39 N                                                                                                                                        |
| Gripping force per gripper jaw at 6 bar, closing   | 70 N                                                                                                                                                |

| Feature                                      | Value                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                              | 34.5 N                                                                                               |
| Mass moment of inertia                       | 0.079 kgcm <sup>2</sup>                                                                              |
| Maximum force on gripper jaw Fz, static      | 60 N                                                                                                 |
| Maximum torque on gripper jaw, Mx static     | 3 Nm                                                                                                 |
| Maximum torque on gripper jaw, My static     | 3 Nm                                                                                                 |
| Maximum torque on gripper jaw, Mz static     | 3 Nm                                                                                                 |
| Relubrication interval for guidance elements | 10 MioCyc                                                                                            |
| Product weight                               | 67 g                                                                                                 |
| Type of mounting                             | Alternatively:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve |
| 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                                                                           |