

# Parallel gripper DHPC-16-A-NO-Z

Part number: 8116794

FESTO



## Data sheet

| Feature                                          | Value                                                                                                                      |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Size                                             | 16                                                                                                                         |
| Stroke per gripper jaw                           | 3 mm                                                                                                                       |
| Max. interchangeability                          | 0.2 mm                                                                                                                     |
| Max. gripper jaw angular play ax, ay             | 0 deg                                                                                                                      |
| Max. gripper jaw backlash Sz                     | 0 mm                                                                                                                       |
| Rotational symmetry                              | ≤0.2 mm                                                                                                                    |
| Pneumatic gripper repetition accuracy            | ≤0.02 mm                                                                                                                   |
| Type code                                        | DHPC                                                                                                                       |
| Number of gripper jaws                           | 2                                                                                                                          |
| Mounting position                                | Any                                                                                                                        |
| Mode of operation                                | Single-acting<br>Open                                                                                                      |
| Gripper function                                 | Parallel                                                                                                                   |
| Structural design                                | Connection via mounting spigot<br>Lever<br>Standard mounting type for gripper fingers<br>Positively driven motion sequence |
| Guide                                            | Ball guide                                                                                                                 |
| Position sensing                                 | For proximity sensor                                                                                                       |
| Symbol                                           | 00997349                                                                                                                   |
| Total gripping force at 6 bar, closing           | 86.8 N                                                                                                                     |
| Operating pressure                               | 0.25 MPa ... 0.8 MPa                                                                                                       |
| Operating pressure                               | 2.5 bar ... 8 bar                                                                                                          |
| Operating pressure                               | 36.25 psi ... 116 psi                                                                                                      |
| Max. operating frequency of pneumatic gripper    | 3 Hz                                                                                                                       |
| Min. opening time at 6 bar                       | 29 ms                                                                                                                      |
| Min. closing time at 6 bar                       | 11 ms                                                                                                                      |
| Max. mass per external gripper finger            | 360 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                                                                                                    |
| Ambient temperature                              | -10 °C ... 60 °C                                                                                                           |
| Gripping force per gripper jaw at 6 bar, closing | 43.4 N                                                                                                                     |
| Mass moment of inertia                           | 0.167 kgcm <sup>2</sup>                                                                                                    |
| Maximum force on gripper jaw Fz, static          | 49 N                                                                                                                       |
| Maximum torque on gripper jaw, Mx static         | 0.34 Nm                                                                                                                    |
| Maximum torque on gripper jaw, My static         | 0.68 Nm                                                                                                                    |

| Feature                                  | Value                                                                                                                                                                        |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum torque on gripper jaw, Mz static | 0.34 Nm                                                                                                                                                                      |
| Product weight                           | 136 g                                                                                                                                                                        |
| Type of mounting                         | Optionally:<br>Direct mounting via through-hole<br>Direct fastening via thread<br>On mounting frame<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Pneumatic connection                     | M5                                                                                                                                                                           |
| Note on materials                        | Free of copper and PTFE<br>RoHS-compliant                                                                                                                                    |
| Housing material                         | Aluminum, anodized                                                                                                                                                           |
| Gripper jaw material                     | High-alloy stainless steel                                                                                                                                                   |