

Angle gripper DHWS-16-A

Part number: 1310178

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|---|
| Size | 16 |
| Max. replacement accuracy | ≤0.2 mm |
| Max. opening angle | 40 deg |
| Rotationally symmetrical | ≤0.2 mm |
| Repetition accuracy, gripper | ≤0.04 mm |
| Number of gripper jaws | 2 |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Gripper function | Angle |
| Design | Lever |
| Position detection | Via proximity switch |
| Symbol | 00991894 |
| Operating pressure | 2 bar ... 8 bar |
| Max. operating frequency of gripper | ≤4 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 44 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 52 ms |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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. Exceptions are printed circuit boards, cables, electrical connectors and coils. |
| Ambient temperature | 5 °C ... 60 °C |
| Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening | 129 Ncm |
| Total gripper torque, closing, 0.6 MPa (6 bar, 87 psi) | 114 Ncm |
| Mass moment of inertia | 0.14 kgcm ² |
| Max. force on gripper jaw Fz static | 50 N |
| Max. torque at gripper Mx static | 1.6 Nm |
| Max. torque at gripper My static | 1.6 Nm |
| Max. torque at gripper Mz static | 1.6 Nm |
| Product weight | 110 g |
| Type of mounting | Either: Via female thread and centring sleeve Via through-hole and centring sleeve |

| Feature | Value |
|-----------------------|--|
| Pneumatic connection | M3 |
| Note on materials | RoHS-compliant |
| Material cover cap | PA |
| Material housing | Wrought aluminium alloy Hard anodised |
| Material gripper jaws | High-alloy steel |