

# Angled gripper HGWM-08-EZ-G7

Part number: 185697

**FESTO**



## Data sheet

| Feature                                                   | Value                                        |
|-----------------------------------------------------------|----------------------------------------------|
| Size                                                      | 8                                            |
| Max. gripper jaw angular play ax, ay                      | 0.5 deg                                      |
| Max. gripper jaw backlash Sz                              | 0.03 mm                                      |
| Max. opening angle                                        | 14 deg                                       |
| Pneumatic gripper repetition accuracy                     | 0.02 mm                                      |
| Number of gripper jaws                                    | 2                                            |
| Actuator system                                           | Pneumatic                                    |
| Mode of operation                                         | Single-acting<br>Closed                      |
| Gripper function                                          | Bracket                                      |
| Gripping force backup                                     | None                                         |
| Structural design                                         | Inclined plane                               |
| Position sensing                                          | None                                         |
| Operating pressure                                        | 2 bar...8 bar                                |
| Max. operating frequency of pneumatic gripper             | 4 Hz                                         |
| Min. opening time at 6 bar                                | 1 ms                                         |
| Min. closing time at 6 bar                                | 2.5 ms                                       |
| Operating medium                                          | Compressed air as per ISO 8573-1:2010 [7:::] |
| Corrosion resistance class (CRC)                          | 2 - Moderate corrosion stress                |
| LABS (PWIS) conformity                                    | VDMA24364-B2-L                               |
| Ambient temperature                                       | 5 °C...60 °C                                 |
| Spring return torque                                      | 0.5 Ncm                                      |
| Total gripping torque at 0.6 MPa (6 bar, 87 psi), opening | 24 Ncm                                       |
| Mass moment of inertia                                    | 31.5 kgcm <sup>2</sup>                       |
| Mass moment of inertia per external gripper finger        | 250 kgcm <sup>2</sup>                        |
| Maximum force on gripper jaw Fz, static                   | 7 N                                          |
| Maximum torque on gripper jaw, Mx static                  | 20 Ncm                                       |
| Maximum torque on gripper jaw, My static                  | 20 Ncm                                       |
| Maximum torque on gripper jaw, Mz static                  | 20 Ncm                                       |
| Max. mass per external gripper finger                     | 400 g                                        |
| Product weight                                            | 14 g                                         |
| Type of mounting                                          | With locknut                                 |

| Feature              | Value                      |
|----------------------|----------------------------|
| Pneumatic connection | M3                         |
| Note on materials    | RoHS compliant             |
| Cover cap material   | POM                        |
| Housing material     | high-alloy stainless steel |
| Gripper jaw material | High-alloy steel           |