

# Angled gripper HGWM-12-EO-G6

Part number: 185699

**FESTO**



## Data sheet

| Feature                                            | Value                                        |
|----------------------------------------------------|----------------------------------------------|
| Size                                               | 12                                           |
| Max. gripper jaw angular play ax, ay               | 0.5 deg                                      |
| Max. gripper jaw backlash Sz                       | 0.03 mm                                      |
| Max. opening angle                                 | 18.5 deg                                     |
| Pneumatic gripper repetition accuracy              | 0.02 mm                                      |
| Number of gripper jaws                             | 2                                            |
| Actuator system                                    | Pneumatic                                    |
| Mode of operation                                  | Single-acting<br>Open                        |
| 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                         | 3.7 ms                                       |
| Min. closing time at 6 bar                         | 1.8 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                                 |
| Stroke compensation spring force                   | 10 N...23 N                                  |
| Spring return torque                               | 1.3 Ncm                                      |
| Total gripping torque at 6 bar, closing            | 64 Ncm                                       |
| Mass moment of inertia                             | 421 kgcm <sup>2</sup>                        |
| Mass moment of inertia per external gripper finger | 560 kgcm <sup>2</sup>                        |
| Maximum force on gripper jaw Fz, static            | 20 N                                         |
| Maximum torque on gripper jaw, Mx static           | 40 Ncm                                       |
| Maximum torque on gripper jaw, My static           | 40 Ncm                                       |
| Maximum torque on gripper jaw, Mz static           | 40 Ncm                                       |
| Max. mass per external gripper finger              | 1000 g                                       |
| Product weight                                     | 75 g                                         |

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