

# Three-point gripper HGDT-63-A-G1

Part number: 540872

FESTO



## Data sheet

| Feature                                      | Value  |
|--|--|
| Size   | 63   |
| Stroke per gripper jaws                      | 10 mm  |
| Max. replacement accuracy                    | 0.2 mm   |
| Max. angular gripper jaw backlash ax, ay     | 0.1 deg  |
| Max. gripper jaw backlash Sz                 | 0.05 mm  |
| Rotationally symmetrical                     | 0.2 mm   |
| Repetition accuracy, gripper                 | 0.03 mm  |
| Number of gripper jaws                       | 3  |
| Mounting position                            | optional   |
| Mode of operation                            | Double-acting  |
| Gripper function                             | 3-point  |
| Gripper force back-up                        | During opening   |
| Design                                       | Wedge-shaped drive<br>Force pilot operated motion sequence                                 |
| Position detection                           | Via proximity switch   |
| Operating pressure                           | 4 bar...8 bar  |
| Operating pressure of blocked air            | 0 bar...0.5 bar  |
| Max. operating frequency of gripper          | 4 Hz   |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 48 ms  |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 246 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               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L  |
| Ambient temperature                          | 5 °C...60 °C   |
| Mass moment of inertia                       | 42.44 kgcm <sup>2</sup>  |
| Max. force on gripper jaw Fz static          | 2500 N   |
| Max. torque at gripper Mx static             | 80 Nm  |
| Max. torque at gripper My static             | 50 Nm  |
| Max. torque at gripper Mz static             | 60 Nm  |
| Lubrication interval for guide components    | 5 MioCyc   |

| Feature                               | Value  |
|---------------------------------------|--|
| Max. mass per external gripper finger | 250 g  |
| Product weight                        | 2469 g   |
| Type of mounting                      | Via through-hole and dowel pin<br>Via female thread and dowel pin<br>Either: |
| Pneumatic connection, blocked air     | M5   |
| Pneumatic connection                  | G1/8   |
| Material cover cap                    | High-alloy stainless steel   |
| Material housing                      | Wrought aluminium alloy<br>Coated with COMPCOTE                              |
| Material gripper jaws                 | Hardened steel   |