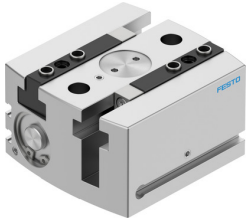


# Parallel gripper HGPL-25-20-A-B

Part number: 3361483

FESTO



 General operating condition

## Data sheet

| Feature                                                         | Value                                                                                      |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Size                                                            | 25                                                                                         |
| Stroke per gripper jaws                                         | 20 mm                                                                                      |
| Max. replacement accuracy                                       | <0.2 mm                                                                                    |
| Max. angular gripper jaw backlash ax, ay                        | <0.2 deg                                                                                   |
| Max. gripper jaw backlash Sz                                    | <0.05 mm                                                                                   |
| Rotationally symmetrical                                        | ≤0.2 mm                                                                                    |
| Repetition accuracy, gripper                                    | <0.03 mm                                                                                   |
| Number of gripper jaws                                          | 2                                                                                          |
| Drive system                                                    | Pneumatic                                                                                  |
| Mounting position                                               | optional                                                                                   |
| Mode of operation                                               | Double-acting                                                                              |
| Gripper function                                                | Parallel                                                                                   |
| Gripper force back-up                                           | None                                                                                       |
| Design                                                          | Twin piston<br>Guidance<br>Piston gate valve<br>T-shape<br>Rack and pinion                 |
| Position detection                                              | Via proximity switch                                                                       |
| Symbol                                                          | 00991894                                                                                   |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi)            | 412 N                                                                                      |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 512 N                                                                                      |
| Operating pressure                                              | 3 bar ... 8 bar                                                                            |
| Max. operating frequency of gripper                             | <1 Hz                                                                                      |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                    | 170 ms                                                                                     |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                    | 150 ms                                                                                     |
| Max. mass per external gripper finger                           | 250 g                                                                                      |
| 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                                                                             |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 206 N                                                                                      |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 256 N                                                                                      |
| Mass moment of inertia                                          | 11.98 kgcm <sup>2</sup>                                                                    |

| Feature                                   | Value                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------|
| Max. force on gripper jaw Fz static       | 1500 N                                                                        |
| Max. torque at gripper Mx static          | 100 Nm                                                                        |
| Max. torque at gripper My static          | 60 Nm                                                                         |
| Max. torque at gripper Mz static          | 70 Nm                                                                         |
| Lubrication interval for guide components | 5 MioCyc                                                                      |
| Product weight                            | 1015 g                                                                        |
| Type of mounting                          | Via female thread and centring sleeve<br>Via through-hole and centring sleeve |
| Pneumatic connection                      | M5                                                                            |
| Note on materials                         | RoHS-compliant                                                                |
| Material housing                          | Smooth-anodised wrought aluminium alloy                                       |
| Material gripper jaws                     | Hardened steel                                                                |