6.2 Accessory installation

Depending on the design rules, the pneumatic connections are located on the front face of the housing or alternatively on the side surfaces of the housing.

### Screw size

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>M3</th>
<th>M4</th>
<th>M5</th>
<th>M6</th>
<th>M8</th>
<th>M10</th>
<th>M12</th>
<th>M14</th>
<th>M16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. torque (Nm)</td>
<td>0.2</td>
<td>0.7</td>
<td>2.5</td>
<td>5.5</td>
<td>10</td>
<td>18</td>
<td>28</td>
<td>43</td>
<td>66</td>
</tr>
</tbody>
</table>

### Prevented tightening torque (Nm)

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>M3</th>
<th>M4</th>
<th>M5</th>
<th>M6</th>
<th>M8</th>
<th>M10</th>
<th>M12</th>
<th>M14</th>
<th>M16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. torque (Nm)</td>
<td>0.3</td>
<td>0.8</td>
<td>2.7</td>
<td>5.7</td>
<td>11</td>
<td>19</td>
<td>30</td>
<td>45</td>
<td>69</td>
</tr>
</tbody>
</table>

### 6.3 Gripper finger and sensor installation

Please follow the instructions in the gripper manual for installing the gripper fingers and sensors.

### 8. Maintenance

Maintenance of the gripper includes regular cleaning, lubrication, and checking for wear. Regular maintenance is essential to ensure the machine operates efficiently and safely.

### 9. Declaration of incorporation

We hereby declare that the incomplete machine described below is compliant with all applicable regulations and standards.

#### Product designation
- Type designation: pneumatic gripper
- Designation: GK

#### Technical data
- Operating pressure: 6 bar
- Stroke: 20 mm
- Speed: 1000 mm/sec
- Torque: 50 Nm

#### INTEGRATION AND OPERATING INSTRUCTIONS: 2-jaw parallel grippers, pneumatic, GK series

- Operating pressure: 6 bar
- Stroke: 20 mm
- Speed: 1000 mm/sec
- Torque: 50 Nm

#### Installation and operating instructions

- The gripper is designed for operation with compressed air only. It is not suited for operation with other media such as liquids or gases.
- The gripper is used as defined under "Proper use" in enclosed rooms for time-restricted gripping, handling, and holding workpieces. It is not suitable for clamping workpieces during machining processes or for direct contact with peripheral tools.

#### Safety notes
- Proper use of the gripper also includes the forces and torques that may be acting in addition to the gripping force.

#### Function

- The function relies on the action of a pneumatic piston vented on both sides. Alternating ventilation moves the pneumatic piston up and down.
- Proper use of the gripper also includes the forces and torques that may be acting in addition to the gripping force.

#### Personnel qualifications

- Installation, commissioning, and maintenance must only be performed by qualified personnel. These personnel must have read and understood the installation instructions in full.

### 5. Function

- The function relies on the action of a pneumatic piston vented on both sides. Alternating ventilation moves the pneumatic piston up and down.
- Proper use of the gripper also includes the forces and torques that may be acting in addition to the gripping force.

### 6. Installation

- The gripper must be fitted on a mounting surface from several sides with the necessary evenness.

### 7. Technical data

- This data varies within the series depending on the specific design. If you should have further questions about products or technical data, please contact Zimmer GmbH customer service.

### 8. Maintenance

Maintenance is necessary for the correct operation of the machine. It is recommended to follow the maintenance schedule provided by Zimmer GmbH.

### 9. Declaration of incorporation

We hereby declare that the incomplete machine described below is compliant with all applicable regulations and standards.