### Technical Specifications

#### Bypass valves

<table>
<thead>
<tr>
<th>Connection diameter</th>
<th>Pressure adjustment range</th>
<th>Max. working pressure</th>
<th>Max. working temperature</th>
<th>Dimensions (10 bar version)</th>
<th>Weight (10 bar version)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bar</td>
<td>bar</td>
<td>°C</td>
<td>L × W × H mm</td>
<td>kg</td>
</tr>
<tr>
<td>G 1/2</td>
<td>4 – 10</td>
<td>16</td>
<td>80</td>
<td>65 × 90 × 185</td>
<td>1</td>
</tr>
<tr>
<td>G 3/4</td>
<td>4 – 10</td>
<td>16</td>
<td>80</td>
<td>75 × 90 × 185</td>
<td>1.1</td>
</tr>
<tr>
<td>G 1</td>
<td>4 – 10</td>
<td>16</td>
<td>80</td>
<td>90 × 90 × 185</td>
<td>1.5</td>
</tr>
</tbody>
</table>

#### Pre-installed air-main charging systems

<table>
<thead>
<tr>
<th>Connection diameter</th>
<th>working pressure</th>
<th>Max. working temperature</th>
<th>Reliable compressed air treatment</th>
<th>Reliable compressed air supply</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 bar</td>
<td>16 bar</td>
<td>40 bar</td>
<td>L × W × H approx. mm</td>
<td>kg</td>
<td></td>
</tr>
<tr>
<td>Versions with ball valves</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G 1/2</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>220 × 230 × 400</td>
<td>3.9</td>
</tr>
<tr>
<td>G 3/4</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>220 × 230 × 410</td>
<td>4.0</td>
</tr>
<tr>
<td>G 1</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>230 × 230 × 430</td>
<td>4.3</td>
</tr>
<tr>
<td>G 1 1/4</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>240 × 240 × 450</td>
<td>4.7</td>
</tr>
<tr>
<td>G 1 1/2</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>240 × 240 × 460</td>
<td>5.7</td>
</tr>
<tr>
<td>G 2</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>250 × 240 × 480</td>
<td>6.8</td>
</tr>
<tr>
<td>G 2 1/2</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>260 × 240 × 490</td>
<td>10</td>
</tr>
<tr>
<td>G 3</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>100</td>
<td>270 × 240 × 500</td>
<td>12</td>
</tr>
<tr>
<td>Versions with butterfly valves</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DN 40</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>220 × 220 × 560</td>
<td>6</td>
</tr>
<tr>
<td>DN 50</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>270 × 230 × 580</td>
<td>9</td>
</tr>
<tr>
<td>DN 65</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>270 × 250 × 620</td>
<td>11</td>
</tr>
<tr>
<td>DN 80</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>270 × 260 × 670</td>
<td>13</td>
</tr>
<tr>
<td>DN 100</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>315 × 260 × 700</td>
<td>18</td>
</tr>
<tr>
<td>DN 125</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>345 × 260 × 750</td>
<td>22</td>
</tr>
<tr>
<td>DN 150</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>410 × 280 × 800</td>
<td>33</td>
</tr>
<tr>
<td>DN 200</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>440 × 330 × 880</td>
<td>47</td>
</tr>
<tr>
<td>DN 250</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>480 × 400 × 970</td>
<td>64</td>
</tr>
<tr>
<td>DN 300</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>50</td>
<td>550 × 470 × 1070</td>
<td>90</td>
</tr>
</tbody>
</table>

Electric power supply 230 V, AC, 50 Hz

○ Please state max. working pressure when ordering
◆ Set at factory
□ Adjustable on-site

Pre-installed air-main charging systems when delivered:
Reliable compressed air quality. Modification also possible on-site.
Why do we need an air-main charging system?

Compressed air treatment systems are designed for a certain rate of air flow which, when the system is operating at full load, pushes against the pressurised air in the air distribution network. However, should this resistance not be present, for example during periods of low load or downtime, it is possible that dryers and filters may be overwhelmed by the sudden surge in airflow that occurs when the system re-starts. Air-main charging systems prevent this from occurring. They not only ensure consistent compressed air quality, but also enhance system reliability and significantly extend the service life of air treatment equipment.

KAESER KOMPRESSOREN can provide a suitable air-main charging system for virtually every compressed air application and network.

Tailored reliability

1. Reliable air-main charging ...  
   ... with the KAESER bypass valve. Suitable for basic compressed air systems with one compressor and air distribution piping up to 1 inch in diameter.

2. Reliable compressed air supply and system start-up ...  
   ... with KAESER’s proven air-main charging systems. Ideal for compressed air installations with several compressors and a single air treatment package.

3. Reliable compressed air supply and system start-up ...  
   ... for compressed air installations with several air treatment packages is achieved by equipping each with a KAESER air-main charging system. This ensures consistent compressed air quality even when only one air treatment package in operation.
## Technical Specifications

### Bypass valves

<table>
<thead>
<tr>
<th>Connection diameter</th>
<th>Pressure adjustment range</th>
<th>Max. working pressure</th>
<th>Max. working temperature</th>
<th>Dimensions (10 bar version)</th>
<th>Weight (10 bar version)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bar</td>
<td>bar</td>
<td>°C</td>
<td>L × W × H mm</td>
<td>kg</td>
</tr>
<tr>
<td>G 1/2</td>
<td>4 – 10</td>
<td>16</td>
<td>80</td>
<td>65 × 90 × 185</td>
<td>1</td>
</tr>
<tr>
<td>G 3/4</td>
<td>4 – 10</td>
<td>16</td>
<td>80</td>
<td>75 × 90 × 185</td>
<td>1.1</td>
</tr>
<tr>
<td>G 1</td>
<td>4 – 10</td>
<td>16</td>
<td>80</td>
<td>90 × 90 × 185</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### Pre-installed air-main charging systems

<table>
<thead>
<tr>
<th>Connection diameter</th>
<th>working pressure bar</th>
<th>Max. working temperature °C</th>
<th>Reliable compressed air treatment</th>
<th>Reliable compressed air supply</th>
<th>Dimensions L × W × H approx. mm</th>
<th>Weight kg</th>
</tr>
</thead>
</table>

#### Through-fitted valves

- **G 1/2**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 220 × 230 × 400
  - Weight: 3.9 kg

- **G 3/4**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 220 × 230 × 410
  - Weight: 4.0 kg

- **G 1**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 230 × 230 × 430
  - Weight: 4.3 kg

- **G 1 1/4**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 240 × 240 × 450
  - Weight: 4.7 kg

- **G 1 1/2**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 240 × 240 × 460
  - Weight: 5.7 kg

- **G 2**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 250 × 240 × 480
  - Weight: 6.8 kg

- **G 2 1/2**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 260 × 240 × 490
  - Weight: 10 kg

- **G 3**
  - Connection 10 bar: ○ ○ ○ ○ 100 ○ ○
  - Dimensions: 270 × 240 × 560
  - Weight: 12 kg

#### Butterfly valves

- **DN 40**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 220 × 220 × 560
  - Weight: 6 kg

- **DN 50**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 270 × 270 × 580
  - Weight: 9 kg

- **DN 65**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 270 × 250 × 620
  - Weight: 11 kg

- **DN 80**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 270 × 260 × 670
  - Weight: 13 kg

- **DN 100**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 315 × 260 × 700
  - Weight: 18 kg

- **DN 125**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 345 × 260 × 750
  - Weight: 22 kg

- **DN 150**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 410 × 280 × 800
  - Weight: 33 kg

- **DN 200**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 440 × 310 × 880
  - Weight: 67 kg

- **DN 250**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 480 × 400 × 970
  - Weight: 64 kg

- **DN 300**
  - Connection: ○ ○ ○ ○ 50 ○ ○
  - Dimensions: 550 × 470 × 1070
  - Weight: 90 kg

---

Pre-installed air-main charging systems when delivered:
- Reliable compressed air quality, modification also possible on-site.

Electric power supply: 230 V, AC, 50 Hz

○ Please state max. working pressure when ordering

Set at factory

Adjustable on-site