Technical data sheet
Flow control valve BG12

Advantages
+ Flow from 10 cm³/min
+ Reproducibility even with low flow rates
+ Fluid flow can be controlled nearly independently of pressure and viscosity
+ Sensitive adjustment
Dimensional drawing

Mounting hole

Actuation D and V

Actuation K and P

all dimensions in mm
### Technical data

#### General

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of valve</td>
<td>gap-type throttle valve</td>
</tr>
<tr>
<td>Operation</td>
<td>rotary knob</td>
</tr>
<tr>
<td>Angle of rotation, 1 rotation</td>
<td>330°</td>
</tr>
<tr>
<td>Valve mounting</td>
<td>thread M30x1.5</td>
</tr>
<tr>
<td>Connections of ports</td>
<td>mounting hole</td>
</tr>
<tr>
<td>Mounting position</td>
<td>mountable in any position</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-5°C to +50°C</td>
</tr>
<tr>
<td>Mass valve</td>
<td>0.6 kg</td>
</tr>
</tbody>
</table>

#### Hydraulic

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation pressure A, B</td>
<td>max. 150 bar</td>
</tr>
<tr>
<td>Hydraulic oil temperature</td>
<td>-10 to +70 °C</td>
</tr>
<tr>
<td>Viscosity range</td>
<td>10 to 300 mm²/s</td>
</tr>
<tr>
<td>Rate of flow</td>
<td>max. 6 l/min</td>
</tr>
</tbody>
</table>

### Symbol

**20**

![Diagram 20](image)

**21**

![Diagram 21](image)
**Actuation**

V = rotary knob and lock type E10  
D = rotary knob  
K = cover (pre-set value)  
P = cover and lead sealed, pre-set value

**Number of revolutions**

**Design code**

**Design**

**Flow range**
(for design K and P pre-set value)

<table>
<thead>
<tr>
<th>max. volume flow</th>
<th>code</th>
</tr>
</thead>
<tbody>
<tr>
<td>[cm³/min]</td>
<td></td>
</tr>
<tr>
<td>min</td>
<td>max</td>
</tr>
<tr>
<td>10</td>
<td>100</td>
</tr>
<tr>
<td>10</td>
<td>200</td>
</tr>
<tr>
<td>10</td>
<td>400</td>
</tr>
<tr>
<td>25</td>
<td>500</td>
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<tr>
<td>25</td>
<td>700</td>
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<tr>
<td>50</td>
<td>1500</td>
</tr>
<tr>
<td>100</td>
<td>3000</td>
</tr>
<tr>
<td>150</td>
<td>6000</td>
</tr>
</tbody>
</table>

**Nominal size**

**Symbol**

**Flow control valve**

**Material number**