Flow Control Valve NG 6
Technical Data Sheet

• Flow from 10 cm³/min
• Reproducibility even with low flow rates
• Fluid flow can be controlled nearly independently of pressure and viscosity
• Control range of up to 3 rotations
• Sensitive adjustment
• Connection according to ISO 4401
### Technical Data

#### General

- **Type of valve**: gap-type throttle valve
- **Operation**: rotary knob
- **Angle of rotation, 1 rotation**: 330°
- **Angle of rotation, 2 rotations**: 690°
- **Angle of rotation, 3 rotations**: 1050°
- **Valve mounting**: 2x M5 x50 DIN912
- **Connection of ports**: mounting plate
- **Mounting position**: mountable in any position
- **Ambient temperature**: -5°C to +50°C
- **Mass valve**: 1 kg

#### Hydraulic

- **Operation pressure A, B**: max. 250 bar
- **Hydraulic oil temperature**: -10 to +70°C
- **Viscosity range**: 10 to 300 mm²/s
- **Rate of flow**: max. 9 l/min

### Flow Range

<table>
<thead>
<tr>
<th>Flow [cm³/min]</th>
<th>Code</th>
<th>Rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>min</td>
<td>max</td>
<td>1 (330°)</td>
</tr>
<tr>
<td>10</td>
<td>100</td>
<td>0.1</td>
</tr>
<tr>
<td>10</td>
<td>200</td>
<td>0.2</td>
</tr>
<tr>
<td>10</td>
<td>400</td>
<td>0.4</td>
</tr>
<tr>
<td>25</td>
<td>500</td>
<td>0.5</td>
</tr>
<tr>
<td>25</td>
<td>700</td>
<td>0.7</td>
</tr>
<tr>
<td>50</td>
<td>1500</td>
<td>1.5</td>
</tr>
<tr>
<td>100</td>
<td>3000</td>
<td>3.0</td>
</tr>
<tr>
<td>150</td>
<td>6000</td>
<td>6.0</td>
</tr>
<tr>
<td>20</td>
<td>8000</td>
<td>8.0</td>
</tr>
<tr>
<td>20</td>
<td>1200</td>
<td>1.2</td>
</tr>
<tr>
<td>20</td>
<td>3000</td>
<td>3.0</td>
</tr>
<tr>
<td>20</td>
<td>6000</td>
<td>6.0</td>
</tr>
<tr>
<td>20</td>
<td>9000</td>
<td>9.0</td>
</tr>
</tbody>
</table>

### Symbol

```
A
\arrow{A}{B}
```
Dimensional Drawing

actuation D

actuation V

actuation K and P

front panel mounting

all dimensions in mm
The figure shows the side of the mounting plate to which the valve is fastened.

<table>
<thead>
<tr>
<th></th>
<th>P</th>
<th>A</th>
<th>T</th>
<th>B</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø max [mm]</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>x [mm]</td>
<td>21.5</td>
<td>12.7</td>
<td>21.5</td>
<td>30.2</td>
<td>0</td>
<td>40.5</td>
<td>40.5</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>y [mm]</td>
<td>25.9</td>
<td>15.5</td>
<td>5.1</td>
<td>15.5</td>
<td>0</td>
<td>-0.75</td>
<td>31.75</td>
<td>31</td>
<td>31.75</td>
</tr>
</tbody>
</table>

F: M5, thread depth min. 1.5 x Ø
G: hole depth min. 1.5 x Ø

For connection of the flow control valve, the ports A and B are used.
Various single and multiple mounting plates are available.
Type Code

M 20 - 6 - 1.5 P 200 - 0 V

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
0 = 1 rotation without front panel mounting
1 = 1 rotation with front panel mounting
2 = 2 rotations with front panel mounting
3 = 3 rotations with front panel mounting

Design code

Design

Flow range
for design K and P pre-set value

Nominal size

Symbol

Flow control valve

Material number