FLOW CONTROL VALVE / PINCH VALVE / 2-PORT/2-WAY VALVE

**Description**
The flow control valve functions as a pinch valve in a new design of housing with full flow cross-section. Since the straight valve passage has neither constrictions nor back-points, there is no danger of clogging or blockage. Frictional loss is at a minimum.

**Media**
Compressed air, gases, liquids or other paste-like or powdery media. Solids are enclosed by the flexible sleeve at shut-off.

**Sleeve**
Highly flexible with double woven reinforcement in eight different grades. Sleeve simple to change.

**Pressures**
Operating pressure: max. 4.0 bar Pressure: max. 0.5
Differential pressure: max. 2.5 bar Closing pressure: Pp + 2.5 bar to DN32, Pp + 2 bar from DN40 on

**Vacuum**
If vacuum is greater than -100 mbar, vacuum compensation should be provided on the control side.

**Accuracy**
In the flow range of 0 to 70% the linearity of pilot pressure to flow is about 10% accurate.

**Mounting position**
Any, at horizontal mounting pilot port preferably at the top.

**Temperature range**
0 °C to max. 100 °C / 32 °F to max. 212 °F, subject to sleeve material

**Material**
Body: stainless steel 318L, material no. 1.4435 Sleeve: depending on selected version

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<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Nominal size</th>
<th>Chamber capacity</th>
<th>Control port</th>
<th>Operating pressure max. bar</th>
<th>Connection thread</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>Ø (mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>26</td>
<td>6</td>
<td>0.01</td>
<td>M5</td>
<td>G¼</td>
<td>QE06-02NR</td>
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<tr>
<td>80</td>
<td>38</td>
<td>10</td>
<td>0.03</td>
<td>M5</td>
<td>G½</td>
<td>QE10-03NR</td>
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<tr>
<td>95</td>
<td>44</td>
<td>15</td>
<td>0.04</td>
<td>G¼</td>
<td>G½</td>
<td>QE15-04NR</td>
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<tr>
<td>110</td>
<td>55</td>
<td>20</td>
<td>0.05</td>
<td>G¾</td>
<td>G¾</td>
<td>QE20-06NR</td>
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<tr>
<td>125</td>
<td>60</td>
<td>25</td>
<td>0.07</td>
<td>G¾</td>
<td>G¾</td>
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<tr>
<td>140</td>
<td>73</td>
<td>32</td>
<td>0.10</td>
<td>G¾</td>
<td>G¾</td>
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<tr>
<td>150</td>
<td>83</td>
<td>40</td>
<td>0.13</td>
<td>G¾</td>
<td>G½</td>
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<tr>
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<td>99</td>
<td>50</td>
<td>0.28</td>
<td>G¾</td>
<td>G¾</td>
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</tbody>
</table>

**Flow control valve**
Operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure

**Special options**, add the appropriate letter
- **sleeve NR**: natural rubber, black
- **sleeve NRL**: rubber, suitable for food, black
- **sleeve NLH**: rubber, suitable for food, light
- **sleeve NBR**: nitrile rubber/Buna-N, suitable for food
- **sleeve EPDM**: ethylene-propylene rubber, suitable for food, black
- **sleeve FKM**: fluoro rubber, black
- **sleeve CR**: chloroprene rubber/neoprene, black
- **sleeve CSM**: natural rubber, chlorosulphonyl/polyethylene

For further pinch valves made of POM or aluminium see chapter for special devices

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Order example: QE06-02NR

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