Constant Flow Valves
Constant Flow Rate Regardless of Pressure

Biggest Range of Flow Rates
Best Accuracy
20 Years Life Expectancy

www.maric.com
**Product Range**

**Screwed BSP & NPT**
Available in: **Brass, Chrome, UPVC & Stainless steel.**
Select desired flow rate from “flow rates available”.
Flow control Check valves available in limited configurations.
Available in **FF, MF, FM** - First letter denotes inlet.

**Flow rates available are from 0.2 litres/minute up to the maximum listed below.**

<table>
<thead>
<tr>
<th>Body Size;</th>
<th>1/4&quot;</th>
<th>10mm</th>
<th>15mm</th>
<th>20mm</th>
<th>25mm</th>
<th>32mm</th>
<th>40mm</th>
<th>50mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Flow L/Minute;</td>
<td>9</td>
<td>9</td>
<td>23</td>
<td>54</td>
<td>114</td>
<td>233</td>
<td>233</td>
<td>342</td>
</tr>
</tbody>
</table>

**Wafer Type**
For mounting between flanged pipe fittings.
(Table “D” as standard. Other specs to order)

Available in: **Brass, UPVC, Gunmetal & Stainless Steel.** Wafers are supplied with an o’ring in each face for sealing.

Standard Wafer O.D. is located by flange bolts. Full flange wafers made to order.

**Flow rates available are from 0.2 litres/minute up to the maximum listed below.**

<table>
<thead>
<tr>
<th>Body Sizes (mm);</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
<th>65</th>
<th>80</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Flow L/Minute;</td>
<td>114</td>
<td>233</td>
<td>233</td>
<td>233</td>
<td>342</td>
<td>456</td>
<td>699</td>
<td>1279</td>
<td>2320</td>
<td>4427</td>
<td>6058</td>
<td>8854</td>
</tr>
</tbody>
</table>

**Insert Type**
Inserts are out of sight and protected from unauthorised interference.
Available in: **Brass, UPVC & Stainless Steel**

**Plain insert** – various applications including press fitting into OEM’s equipment & tapware etc.

**Flanged & Special inserts** – for numerous applications including water meter flow control. Suitable for 15 to 50 mm water meters.

**Flow rates available are from 0.2 litres/minute upwards** Specific dimensions and flow rates are available on application.
Understanding Headloss or Pressure Differential (P.D.) across valve.

**QUESTION:** What will the headloss across the Maric valve be?

**ANSWER:** At least 140 kPa, or, between 140 and 1000 kPa, at full flow, if the system is designed and operating correctly. This is because the function of our PRECISION valves is to control flow when Pressure Differential across the valve is within this range. Therefore, to achieve full rated flow (accurate to within ±10 %), the installation must provide for inlet to be at least 140 kPa above outlet pressure. At lower than rated flows, headloss reduces significantly.

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**When ordering valves, Please Specify**

- Body Size
- FF, MF, FM or Water
- Body Material
- Precision (or otherwise)
- Flow Rate

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**Standard Specifications** (Standard Precision Performance)

**Pressure Differential Range:** 140 – 1000 kPa

**Flow Rate Accuracy:** + / - 10%

**Headloss:** 140 kPa at rated flow. (At lower than rated flows headloss reduces significantly.)

**Temperature Range:** 0 – 60°C (50°C for UPVC)

**Performance Curve:** Typical of PRECISION valves irrespective of body size or flow rate

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**Control Rubber Options**

<table>
<thead>
<tr>
<th>Rubber Type</th>
<th>Abbreviation</th>
<th>Rubber Material</th>
<th>Pressure Differential Range</th>
<th>Flow Accuracy</th>
<th>Max Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precision (standard)</td>
<td>&quot;P&quot;</td>
<td>Nitrile</td>
<td>1.4 – 10 bar (20 – 150psi)</td>
<td>+/-10%</td>
<td>60C</td>
</tr>
<tr>
<td>Kwyflo</td>
<td>&quot;K&quot;</td>
<td>Nitrile</td>
<td>1.4 – 10 bar (20 – 150psi)</td>
<td>+/-20%</td>
<td>60C</td>
</tr>
<tr>
<td>Low Pressure</td>
<td>&quot;LP&quot;</td>
<td>Nitrile</td>
<td>0.4 – 4 bar (6 – 60psi)</td>
<td>+/-20%</td>
<td>60C</td>
</tr>
<tr>
<td>High Pressure (1)</td>
<td>&quot;N6&quot;</td>
<td>Nitrile</td>
<td>1.4 – 15 bar (20 – 215psi)</td>
<td>+/-20%</td>
<td>60C</td>
</tr>
<tr>
<td>High Pressure (2)</td>
<td>&quot;N7&quot;</td>
<td>Nitrile</td>
<td>1.7 – 20 bar (25 – 290psi)</td>
<td>+/-20%</td>
<td>60C</td>
</tr>
<tr>
<td>EPDM</td>
<td>&quot;EP&quot;</td>
<td>EPDM</td>
<td>1.4 – 15 bar (20 – 215psi)</td>
<td>+/-20%</td>
<td>100C</td>
</tr>
<tr>
<td>EPDM High Pressure 2</td>
<td>&quot;E7&quot;</td>
<td>EPDM</td>
<td>1.7 – 20 bar (25 – 290psi)</td>
<td>+/-20%</td>
<td>100C</td>
</tr>
<tr>
<td>Viton</td>
<td>&quot;V&quot;</td>
<td>Viton</td>
<td>1.4 – 10 bar (20 – 150psi)</td>
<td>+/-20%</td>
<td>200C</td>
</tr>
</tbody>
</table>

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For full **Product Manual** and list of international **Distributors**, refer to our website [www.maric.com](http://www.maric.com)
Benefits of using Maric flow control valves

**MINING: Centrifugal Pumps**
- Maximise gland packing life through carefully controlled gland-water flow
- Minimise dilution of slurry
- Ensure availability of gland-water to all glands on a common gland-water line
- Save valuable water supplies
- Also used in fire fighting equipment, safety showers & dust suppression

**WATER AUTHORITIES**
- Severely restricting flow encourages payment of overdue water bills
- Improve mains distribution pressure
- Extend water meter life
- Enable agreed maximum flow to consumers tanks.
- Enable economical distribution to sparsely populated areas
- Enforce water restriction
- Reduce infrastructure costs

**WATER TREATMENT**
- Prevent media loss during back-flushing of media filters
- Protect delicate filters from excessive flow rates
- Enable controlled flow rate of sampling water to analysing equipment
- Ensure 100% bacteria kill in ultraviolet water sterilisation

**CENTRIFUGAL PUMP PROTECTION**
Extend pump life by;
- Keeping pump on its curve by limiting maximum flow rate
- Prevent up-thrust damage (common on high draw-down submersibles)
- Prevent cavitation damage
- Prevent over-pumping beyond the supply capacity
- Maximise gland packing life through carefully controlled gland-water flow

**OTHER INDUSTRIAL APPLICATIONS**
- Vacuum Pumps “Liquid Ring” - operator convenience, prevent overheating and overloading
- Fire-fighting – guarantee pressure and flow to all hydrants, control flow of water and foaming agent to ensure correct dose ratio
- Dust Suppression - minimise dust and erosion
- Distilleries - ensure correct cooling of condensers
- Safety showers & eye-wash equipment - ensure safe operation

DISTRIBUTED BY:

[Maric Flow Control Valves](http://www.maric.com)

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