

# Valve Selection Guide

- Establishing Part Numbers
- Valve Body Specs
- Control Rubber Type

## Introduction

Maric Flow Control Valves are available in many configurations catering for numerous civil and industrial environments. This section makes it easy for users to establish all valve specifications and the part number in three easy steps;

- **Establishing Part Numbers**
- **Selecting Valve Body Types**
- **Selecting Control Rubber Type**

**Important: Refer to the  
Product Data section  
through-out this process**

### Note;

To ensure availability of a particular configuration, please refer to the "Product Data" section of this catalogue. It is assumed that the reader already has a desired flow rate in mind and a basic understanding of pipe thread and pipe flange terminology.

All flow control valves are made to order, and are therefore not returnable or suitable for modifying for other flow rates.

Maric Constant Flow Valves

Constant Flow Rate Regardless of Pressure

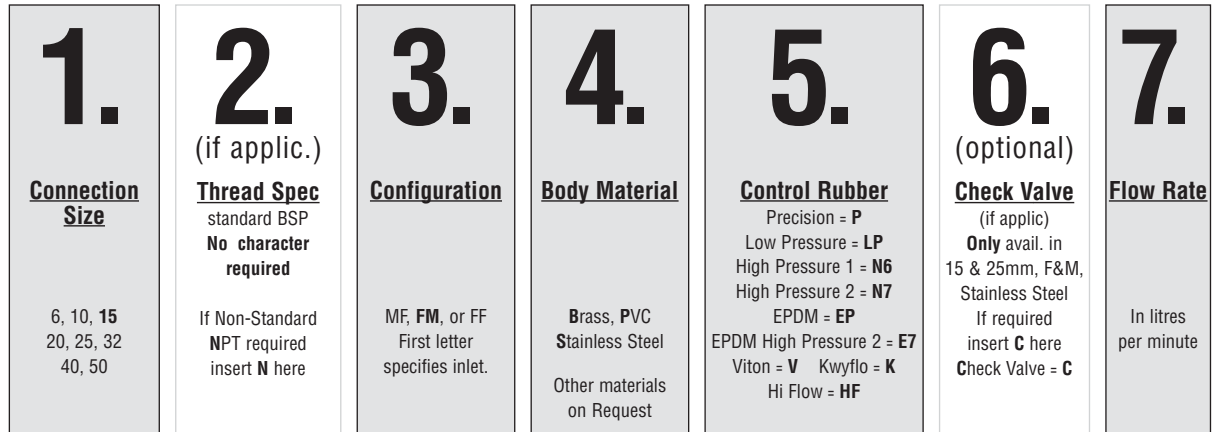


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**Important:**  
Refer to the Product Data section through-out this process

- When purchasing a Maric valve, please specify each of the components below. The full description (specification) then condenses into an appropriate part number as illustrated below.

### Screwed Type Valves – your 7 step specifying guide

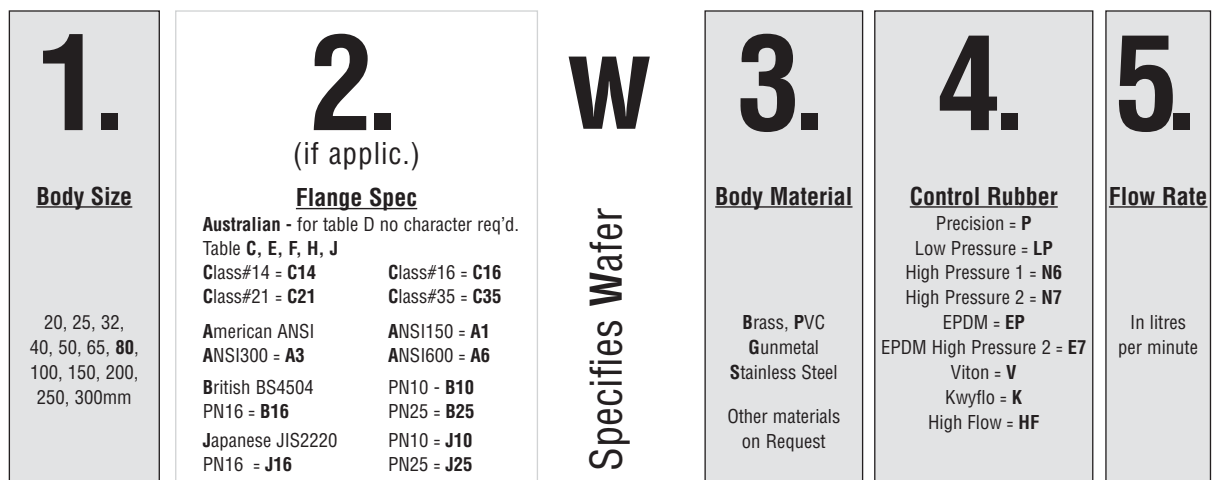


Description: No 15 – F&M Brass Precision – 9 lpm

Applicable part number: **15FMBP9**

- Other examples;**
- |   |                   |
|---|-------------------|
| No.15 F&F PVC Precision 9 lpm                             | <b>15FFPP9</b>    |
| No.20 F&F S/steel EPDM 36 lpm                             | <b>20FFSEP36</b>  |
| No.15 F&M S/steel EPDM Flow Control Check 12 lpm          | <b>15FMSEPC12</b> |
| No.25 NPT F&M S/steel Precision Flow Control Check 45 lpm | <b>25NFMSPC45</b> |

### Wafer Type Valves – your 5 step specifying guide



Description: No 80 – Wafer PVC Precision 658 lpm

Applicable part number: **80WPP658**

- Other examples;**
- |  |                    |
|--|--------------------|
| 50mm Wafer Brass Precision 342 lpm             | <b>50WBP342</b>    |
| 100mm Wafer PVC Low Pressure 750 lpm           | <b>100WPLP750</b>  |
| 200mm (Table E) Wafer Gunmetal Kwyflo 2345 lpm | <b>200EWGK2345</b> |
| 40mm (ANSI150) Wafer S/steel EPDM 59 lpm       | <b>40A1WSEP59</b>  |



### Insert Type Valves – contact your nearest Maric Representative

Maric Constant  
Flow Valves

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Constant  
Flow Rate  
Regardless  
of Pressure



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**Important:**  
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to the  
Product Data  
section  
through-out  
this  
process

Step one:

**Connection types: Screwed, Wafer or Insert** as determined by installation preferences

Select from the following Body Connection Types:

• For **Screwed type** valves consider:

- Body Size
- Thread type; BSP as standard. NPT is currently available in F&F in stainless bodies. Also other materials and configurations where quantities justify production
- Thread configuration; MF, FM or FF configuration
- Check valve feature if required (available only in No 15 and No 25 stainless steel bodies)



• For **Wafer type (flange mount)** valves consider:

- Body Size
- Flange Specification



• **Insert type**, are designed mostly for either press-fitting into OEM's equipment, or for installation within water authority water meter assemblies. Due to the vast number of meter manufacturers, models and sizes it is best to speak to a Maric representative for assistance in selection of an insert.



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Step two:

**Material options** as determined by environment

Select from the following Body Material Options:

- **Screwed;** Brass, UPVC and Stainless Steel
- **Wafer;** Brass, Gunmetal, UPVC and Stainless Steel
- **Insert;** Brass, UPVC and Stainless Steel



### Maric Constant Flow Valves

Constant Flow Rate  
Regardless of Pressure



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Control rubbers, together with the shape of their enclosure, controls the flow rate. Precision Nitrile type are supplied as standard unless otherwise requested.

If installations parameters render standard Precision control rubbers unsuitable, see below for the full range of control rubber types available.

#### Factors to consider when selecting alternative control rubbers for the valves.

- Maximum pressure differential
- Compatibility with chemical environment
- Operating temperature
- Noise
- Body material compatibility



Rubber Type	Abbreviation	Rubber Material	Pressure Differential Range	Flow Accuracy	Max Temp
<b>Precision</b> (standard)	"P"	Nitrile	140 – 1000 kPa (1.4 – 10 bar)	+/-10%	60C
<b>Applications</b> - Supplied as standard, they offer the best flow rate accuracy and tolerate a wide range of chemical environments, making them suitable for most mains pressure, pumping, industrial, and water treatment applications. This product complies with the WaterMark license and AS4020 Potable Water requirement.					
<b>Kwyflo</b>	"K"	Nitrile	140 – 1000 kPa (1.4 – 10 bar)	+/-20%	60C
<b>Applications</b> - For applications where noise must be minimised. Originally used for domestic water saving applications, they are also suited to industrial applications. Not available in Stainless Steel bodies.					
<b>Spotcheck</b>	"S"	Nitrile	140 – 1000 kPa (1.4 – 10 bar)	+/-20%	60C
<b>Applications</b> - For economy. Available in 15 to 25mm brass only. They receive less than 100% performance testing and may not deliver +/- 10% flow rate accuracy. They are therefore priced lower.					
<b>Low Pressure</b>	"LP"	Nitrile	40 – 400 kPa (0.4 – 4 bar)	+/-20%	60C
<b>Applications</b> - Used where the installation demands a low headloss flow controller. NOTE: Only Available in No 15 Series Rubbers from 5.0 lpm upwards					
<b>High Pressure (1)</b>	"N6"	Nitrile	140 – 1500 kPa (1.4 – 15 bar)	+/-20%	60C
<b>Applications</b> - Used where installation pressures exceed that which Precision valves will handle. Not compatible with PVC bodies.					
<b>High Pressure (2)</b>	"N7"	Nitrile	170 – 2000 kPa (1.7 – 20 bar )	+/-20%	60C
<b>Applications</b> - Used where installation pressures exceed that which Precision and High Pressure 1 valves will handle. Compatible with Stainless Steel bodies only.					
<b>High Flow</b>	"HF"	Nitrile	140 – 700 kPa (1.4 – 7 bar )	varies	60C
<b>Applications</b> - Where available, allow for higher than standard maximum flow rates for body size.					
<b>EPDM</b>	"EP"	EPDM	140 – 700 kPa (1.4 – 7 bar )	+/-20%	100C
<b>Applications</b> - For handling higher temperatures and pressures than standard Precision nitrile. They are also suitable in a caustic environment which makes them ideal for the alumina industry.					
<b>EPDM High Pressure 2</b>	"E7"	EPDM	170 – 2000 kPa (1.7 – 20 bar )	+/-20%	100C
<b>Applications</b> - For handling higher temperatures and pressures than standard nitrile and EPDM. They are also suitable in a caustic environment which makes them ideal for the alumina industry. Compatible with Stainless Steel bodies only.					
<b>Viton</b>	"V"	Viton	140 – 1000 kPa (1.4 – 10 bar)	+/-20%	200C
<b>Applications</b> - For where temperatures above 100 degrees Celsius, and below 200 degrees Celsius are encountered. Viton is also the preferred material in chemical environments where both Nitrile or EPDM control rubbers are unsuitable.					