

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 Flow Control Valves

Constant Flow Rate Regardless of Pressure

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

<h1>1.</h1> <p>Body Size</p> <p>6, 10, 15 20, 25, 32 40, 50</p>	<h1>2.</h1> <p>(if applic.)</p> <p>Thread Spec standard BSP No character required</p> <p>If Non-Standard NPT required insert N here</p>	<h1>3.</h1> <p>Configuration</p> <p>MF, FM, or FF First letter specifies inlet.</p>	<h1>4.</h1> <p>Body Material</p> <p>Brass, PVC Stainless Steel</p>	<h1>5.</h1> <p>Control Rubber</p> <p>Precision = P Low Pressure = LP High Pressure 1 = N6 High Pressure 2 = N7 EPDM = EP EPDM High Pressure 2 = E7 Viton = V Kwyflo = K Hi Flow = HF</p>	<h1>6.</h1> <p>(optional)</p> <p>Check Valve (if applic) Only avail. in 15 & 25mm, F&M, Stainless Steel If required insert C here Check Valve = C</p>	<h1>7.</h1> <p>Flow Rate</p> <p>In litres per minute</p>
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Description: No 15 – F&M Brass Precision – 9 lpm

Applicable part number: **15FMBP9**

Other examples;

- | | |
|---|-------------------|
| No.15 F&F PVC Precision 9 lpm | 15FFPP9 |
| No.20 F&F S/steel EPDM 36 lpm | 20FFSEP36 |
| No.15 F&M S/steel EPDM FC Check 12 lpm | 15FMSEPC12 |
| No.25 NPT F&M S/steel Precision FC Check 45 lpm | 25NFMSPC45 |

Wafer Type Valves – your 5 step specifying guide

<h1>1.</h1> <p>Body Size</p> <p>20, 25, 32, 40, 50, 65, 80, 100, 150, 200, 250, 300mm</p>	<h1>2.</h1> <p>(if applic.)</p> <p>Flange Spec</p> <p>Australian - for table D no character req'd. Table C, E, F, H, J Class#14 = C14 Class#16 = C16 Class#21 = C21 Class#32 = C32</p> <p>American ANSI ANSI150 = A1 ANSI300 = A3 ANSI600 = A6</p> <p>British BS4504 PN14 = B14 PN16 = B16 PN25 = B25</p> <p>Japanese JIS2220 PN10 = J10 PN16 = J16 PN25 = J25</p>	<h1>W</h1> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Specifies Wafer</p>	<h1>3.</h1> <p>Body Material</p> <p>Brass, PVC Stainless Steel Gunmetal</p>	<h1>4.</h1> <p>Control Rubber</p> <p>Precision = P Low Pressure = LP High Pressure 1 = N6 High Pressure 2 = N7 EPDM = EP EPDM High Pressure 2 = E7 Viton = V Kwyflo = K High Flow = HF</p>	<h1>5.</h1> <p>Flow Rate</p> <p>In litres per minute</p>
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Description: No 80 – Wafer PVC Precision 658 lpm

Applicable part number: **80WPP658**

Other examples;

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

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Insert Type Valves – contact your nearest Maric Representative

Maric Flow Control Valves

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Constant Flow Rate Regardless of Pressure

Important: Refer 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 Flow Control 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
Precision (standard)	“P”	Nitrile	1.4 – 10 bar (20 – 150psi)	+/-10%	60C
Applications - 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.					
Kwyflo	“K”	Nitrile	1.4 – 10 bar (20 – 150psi)	+/-20%	60C
Applications - 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.					
Spotcheck	“S”	Nitrile	1.4 – 10 bar (20 – 150psi)	+/-20%	60C
Applications - 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.					
Low Pressure	“LP”	Nitrile	0.4 – 3 bar (6 - 30psi)	+/-20%	60C
Applications - Used where the installation demands a low headloss flow controller.					
High Pressure (1)	“N6”	Nitrile	1.4 – 15 bar (20 – 215psi)	+/-20%	60C
Applications - Used where installation pressures exceed that which Precision valves will handle. Not compatible with PVC bodies.					
High Pressure (2)	“N7”	Nitrile	1.7 – 20 bar (25 - 290psi)	+/-20%	60C
Applications - Used where installation pressures exceed that which Precision and High Pressure 1 valves will handle. Compatible with Stainless Steel bodies only.					
High Flow	“HF”	Nitrile	1.4 – 7 bar	varies	60C
Applications - Where available, allow for higher than standard maximum flow rates for body size.					
EPDM	“EP”	EPDM	1.4 – 15 bar (20 – 215psi)	+/-20%	100C
Applications - 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.					
EPDM High Pressure 2	“E7”	EPDM	1.7 – 20 bar (25 – 290psi)	+/-20%	100C
Applications - 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.					
Viton	“V”	Viton	1.4 – 10 bar (20 – 150psi)	+/-20%	200C
Applications - 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.					

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