



AUSTRALIA
Maric Constant
Flow Valves



Product Data

Screwed Valves

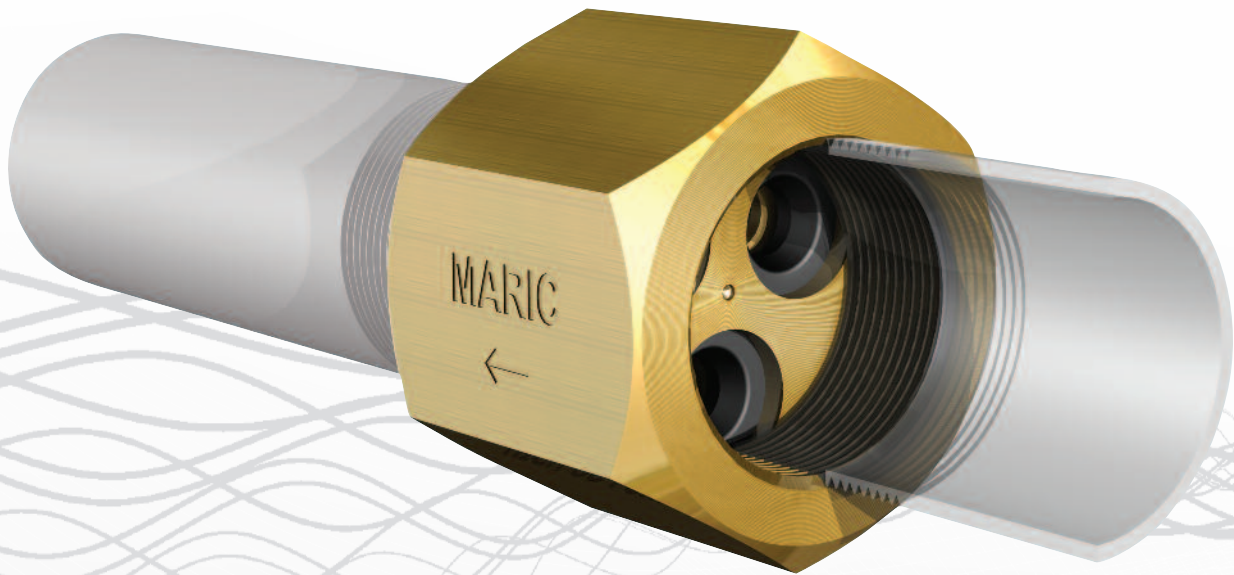
Brass and Chrome

PVC

Stainless Steel

Flow Control Check Valves - 15mm

Flow Control Check Valves - 25mm



Exported
Globally

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V1022

Maric Constant Flow Valves

Constant Flow Rate Regardless of Pressure



Est. 1963

Availability & Specifications – Maric Flow Control Valves

Body Sizes	Configurations <i>First letter specifies inlet</i>	Flow Rate Availability <i>See all Available Flow Rates below</i>
6mm (1/4")	F&F	from 0.2 to 9 l/m
10mm	F&F	from 0.2 to 9 l/m
15mm	F&F, M&F, F&M	from 0.2 to 23 l/m
20mm	F&F, M&F, F&M	from 0.2 to 59 l/m
25mm	F&F, M&F, F&M	from 0.4 to 114 l/m
32mm	F&F	from 15 to 114 l/m
40mm	F&F	from 15 to 233 l/m
50mm	F&F	from 15 to 342 l/m



Dimensions & Weights

Nominal size	1/4"	10	15	20	25	32	40	50
A/F Dimension "A"	18.0	22.0	25.4	31.8	40.0	50.8	57.0	70.0
FF Body Length "B"	32.0	33.1	41.8	47.9	58.0	66.2	66.2	74.8
MF Body Length "C"	-	15.0	23.2	30.8	39.7	-	-	-
FM Body Length "D"	18.4	15.0	23.2	28.6	36.4	-	-	-
Approx Weight Kg	0.06	0.07	0.1	0.18	0.3	0.6	0.8	1.3-2.2

Standard Performance

Unless otherwise specified, **standard** Nitrile "Precision" type control rubbers are fitted giving the valve the following standard performance; (Refer also to available; Product Data – Control Rubbers – Precision)

Pressure Differential Range	140 – 1000 kPa with Precision Rubbers fitted. (Higher DP options available)
Flow Rate Accuracy	+/- 10%
Headloss	140 kPa at rated flow. (At lower than rated flows headloss reduces significantly.)
Available Flow Rates (litres/min)	.2 / .25 / .3 / .35 / .4 / .45 / .5 / .55 / .63 / .7 / .8 / .9 / 1.0 / 1.1 / 1.2 / 1.3 / 1.5 / 1.6 / 1.8 / 2.0 / 2.3 / 2.5 / 2.8 / 3.0 / 3.2 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.3 / 7.0 / 8.0 / 9.0 / 10 / 11 / 12 / 13 / 15 / 16 / 18 / 20 / 23 / 25 / 28 / 32 / 36 / 41 / 45 / 49 / 54 / 59 / 66 / 73 / 82 / 91 / 102 / 114 / 125 / 138 / 150 / 162 / 180 / 199 / 216 / 233 lpm up to 342 lpm Kwyflo flow rate options, (quiet design) are limited to the flows listed in underlined bold type

Materials	Body	"DR" Brass to AS1562 alloy 352 (plus chrome plating if applicable) Chrome plated valves are available in most 15, 20 & 25mm body sizes
Quality & Construction	Threads	Valves comply to WaterMark Technical Standards WMTS-037.1 and AS 4020 BSPT to AS ISO 7.1-2008 Male Series R, Female RP NPT available for minimum order quantities.
Max Pressure Differential		1500 kPa (for N6 and EP rubbers only)
Max Hydrostatic Pressure		6000 kPa
Max Temperature		60°C for Nitrile control rubbers, 100°C for EPDM
Compatible Control Rubbers		Standard Precision P (Non Standard LP, N6, EP, V, K, HF)

Specifying valves

When ordering these valves, please be sure to specify;

- Body size • Thread configuration • Body material
- Control rubber material and pressure differential range - if other than Precision
- Flow Rate



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Constant Flow Rate Regardless of Pressure

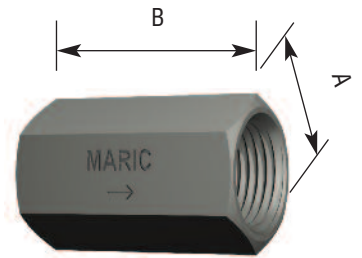


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Availability & Specifications – Maric Flow Control Valves

Body Sizes	Configurations	Flow Rate Availability
6mm (1/4")	F&F	from 0.15 to 9 l/m
15mm	F&F	from 0.15 to 23 l/m
20mm	F&F	from 0.15 to 59 l/m
25mm	F&F	from 0.4 to 114 l/m
32mm	F&F	from 15 to 114 l/m
40mm	F&F	from 15 to 233 l/m
50mm	F&F	from 15 to 342 l/m

See all Available Flow Rates below



F&F only

Dimensions & Weights

Nominal size	1/4"	15	20	25	32	40	50
A/F Dimension "A"	23.0	32.0	40.0	46.0	56.0	71.0	86.0
FF Body Length "B"	32.0	41.8	47.9	58.0	74.8	74.8	80.8
Approx Weight Kg	0.02	0.04	0.06	0.09	0.15	0.28	0.46



Standard Performance

- Pressure Differential Range
- Flow Rate Accuracy
- Headloss
- Available Flow Rates (litres/min)

Unless otherwise specified, **standard** Nitrile "Precision" type control rubbers are fitted giving the valve the following standard performance; (Refer also to available; Product Data – Control Rubbers – Precision)

140 – 1000 kPa
 +/- 10%
 140 kPa at rated flow. (At lower than rated flows headloss reduces significantly.)
 .15 / .2 / .25 / .3 / .35 / .4 / .45 / .5 / .55 / .63 / .7 / .8 / .9 / 1.0 / 1.1 / 1.2 / 1.3 / 1.5 / 1.6 / 1.8 / 2.0 / **2.3** / 2.5 / **2.8** / 3.0 / 3.2 / **3.5** / 4.0 / **4.5** / 5.0 / 5.5 / 6.3 / **7.0** / 8.0 / **9.0** / 10 / **11** / 12 / **13** / 15 / **16** / 18 / **20** / 23 / **25** / 28 / **32** / 36 / **41** / 45 / **49** / 54 / **59** / 66 / 73 / 82 / 91 / 102 / 114 / 125 / 138 / 150 / 162 / 180 / 199 / 216 / 233 lpm up to 342 lpm
 Kwiflo flow rate options, (quiet design) are limited to the flows listed in **underlined bold type**

Materials	Body	UPVC compliant with AS4020 drinking water requirements
Quality & Construction	Threads	Valves comply to WaterMark Technical Standards WMTS-037.1 and AS 4020 BSP to AS ISO 7.1-2008 Series RP (Parallel) NPT available for minimum order quantities.
Max Pressure Differential		1000 kPa, or limited by Control Rubber type
Max Hydrostatic Pressure		3000 kPa
Max Temperature		50°C
Compatible Control Rubbers		Standard Precision P (Non Standard LP, EP, V, K, HF)
Valve Body Length		Maximum length is shown. Lower Flow rates will change the valve body length and the valve will be slightly shorter
Installation		Maximum recommended tightness is hand-tight plus a quarter of a turn

Specifying valves

When ordering these valves, please be sure to specify;

- Body size • Thread configuration • Body material
- Control rubber material and pressure differential range - if other than Precision
- Flow Rate

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Maric Constant Flow Valves

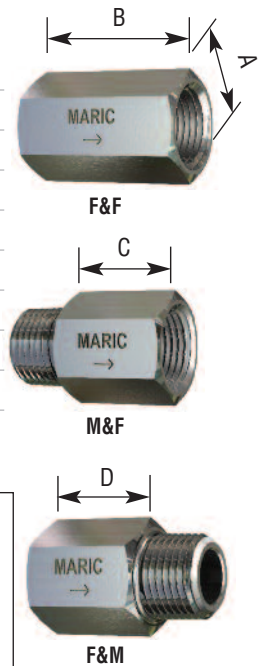
Constant Flow Rate Regardless of Pressure



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Availability & Specifications – Maric Flow Control Valves

Body Sizes	BSP Configurations <i>First letter specifies inlet</i>	NPT Configurations <i>First letter specifies inlet</i>	Flow Rate Availability <i>See all Available Flow Rates below</i>
6x3mm (1/4" x 1/8")	F&M	-	from 0.20 to 9 l/m
6mm (1/4")	F&F, F&M	F&F	from 0.20 to 9 l/m
10mm	M&F	F&F	from 0.20 to 9 l/m
15mm	F&F, M&F, F&M	F&F	from 0.20 to 23 l/m
20mm	F&F	F&F	from 0.20 to 59 l/m
25mm	F&F, M&F, F&M	F&F	from 0.4 to 114 l/m
32mm	F&F	F&F	from 15 to 114 l/m
40mm	F&F	F&F	from 15 to 233 l/m
50mm	F&F	F&F	from 15 to 233 l/m



Dimensions & Weights

Nominal size	1/4" x 1/8"	1/4"	10	15	20	25	32	40	50
A/F Dimension "A"	18.0	18.0	22.0	25.4	31.8	40.0	57.0	57.0	70.0
FF Body Length "B"	-	32.0	-	41.8	47.9	58.0	66.2	66.2	74.8
MF Body Length "C"	-	-	15.0	23.2	-	39.7	-	-	-
FM Body Length "D"	18.6	18.6	-	23.2	-	36.4	-	-	-
NPT (F&F only)	-	32.8	33.1	42.0	43.1	57.0	61.6	61.6	62.4
Approx Weight Kg	0.03	0.04	0.05	0.1	0.18	0.22	0.83	0.7	1.0

Standard Performance

Pressure Differential Range
Headloss
Flow Rate Accuracy
Available Flow Rates
(litres/min)

Unless otherwise specified, **standard** Nitrile "Precision" type control rubbers are fitted giving the valve the following standard performance; (Refer also to available; Product Data – Control Rubbers – Precision)

140 – 1000 kPa (Higher DP options available)

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

+/- 10%

.2/.25 / .3 / .35 / .4 / .45 / .5 / .55 / .63 / .7 / .8 / .9 / 1.0 / 1.1 / 1.2 / 1.3 / 1.5 / 1.6 / 1.8 / 2.0 / **2.3** / 2.5 / **2.8** / 3.0 / 3.2 / **3.5** / 4.0 / **4.5** / 5.0 / 5.5 / 6.3 / **7.0** / 8.0 / **9.0** / 10 / **11** / 12 / **13** / 15 / **16** / 18 / **20** / 23 / **25** / 28 / **32** / 36 / **41** / 45 / **49** / 54 / **59** / 66 / 73 / 82 / 91 / 102 / 114 / 125 / 138 / 150 / 162 / 180 / 199 / 216 / 233 lpm

Materials

Body 316 Stainless Steel to ASTM484/A276

Threads, BSPT BSPT to AS ISO 7.1-2008 Male Series R, Female RP (Standard)

Threads, NPT NPT to ANSI/ASME B1.20.1 Female NPSC, Male NPT

Max Pressure Differential 2000 kPa (for N7 & E7 rubbers only)

Max Hydrostatic Pressure 6000 kPa

Max Temperature 60°C for Nitrile control rubbers, 100°C for EPDM, 200°C for Viton

Compatible Control Rubbers Standard Precision P (Non Standard LP, N6, N7, EP, E7, V, HF)

Specifying valves

When ordering these valves, please be sure to specify;

- Body size • (NPT if applicable) • Thread configuration • Body material
- Control rubber material and pressure differential range - if other than Precision
- Flow Rate

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Maric Constant Flow Valves

Constant Flow Rate Regardless of Pressure



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Application

For providing the centrifugal pumping industry with a constant glandwater flow rate to pump glands, - with backflow prevention. A constant pre-set maximum flow rate to centrifugal pump glands can be achieved irrespective of fluctuating gland-water supply pressure, gland condition, or centrifugal pump discharge pressure.

Benefits

- A constant supply of glandwater to the gland, ensures the life of expensive pump seals are maximised.
- Can ensure that the slurry will not be unnecessarily diluted.
- Prevents one centrifugal pump from robbing all the available gland water in the event of its failure, which could result in the simultaneous failure of all other glands supplied from the same water supply.
- Minimise wastage of available water supplies

Features

- Constant glandwater flow rate
- Back-flow prevention
- High pressure and high temperature handling
- Corrosion and scale resistant assembly



Non-Return Feature. The maintenance free design of the Maric valve uses the flow control rubber as the flexible sealing component in the non-return mechanism. The flexing of the control rubber under normal operating conditions prevents scale build-up on the rubbers surface, which ensures a reliable seal, even after extended periods of no reverse pressure.

Standard Performance

Unless otherwise specified, **EP type EPDM** control rubbers are fitted giving the valve the following standard performance;

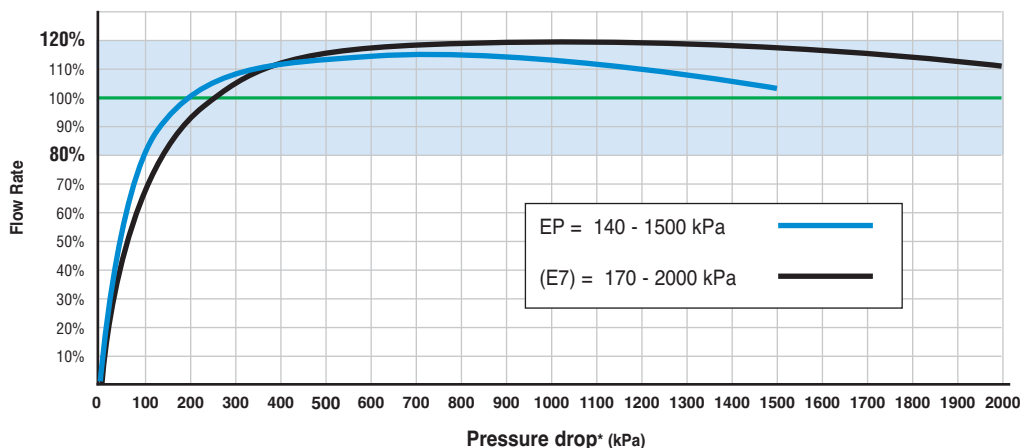
Pressure Differential Range	140 – 1500 kPa
Headloss	140 kPa at rated flow. (At lower than rated flows headloss, reduces significantly.)
Flow Rate Accuracy	+/- 20%
Available Flow Rates (litres/min)	.4 / .45 / .5 / .55 / .63 / .7 / .8 / .9 / 1.0 / 1.1 / 1.2 / 1.3 / 1.5 / 1.6 / 1.8 / 2.0 / 2.3 / 2.5 / 2.8 / 3.0 / 3.2 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.3 / 7.0 / 8.0 / 9.0 / 10 / 11 / 12 / 13 / 15 / 16 / 18 lpm
Check Valve Operation	Closed when reverse pressure of 70 kPa exists
Body Material	303 Stainless Steel to ASTM484/A582
Thread Configuration	F&M, Female inlet (parallel), Male outlet,(tapered)
Threads, BSPT	15mm (1/2") BSPT to AS1722.1 Female Series RP, Male Series R
Threads, NPT (non-standard)	15mm (1/2") NPT to ANSI/ASME B1.20.1, Female NPSC, Male NPT
Max Hydrostatic Pressure	6000 kPa
Temperature Range	0 - 100 degrees C.

Non-Standard Specifications

High pressure 2, "E7", 170 – 2000 kPa. is also available. Alternative flow rates apply

Performance Curve Options – Maric, No 15 Flow Control Check Valve

EP = 140 - 1500 kPa, High Pressure 2 (E7) = 170 - 2000 kPa



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Please Specify When Ordering: Body Size **15mm** Configuration **F&M** Body Material **Stainless** Control Rubber **EP (or E7)** Check **C** Flow Rate **0.4 to 18 lpm**

Options / Description
Example Part Number for 18 lpm;

15 FM S EP C 18

(Add **N** here for NPT if required)

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Est. 1963

Application

For providing the centrifugal pumping industry with a constant glandwater flow rate to pump glands, with backflow prevention. A constant pre-set maximum flow rate to centrifugal pump glands can be achieved irrespective of fluctuating gland-water supply pressure, gland condition, or centrifugal pump discharge pressure.

Benefits

- A constant supply of glandwater to the gland, ensures the life of expensive pump seals are maximised.
- Can ensure that the slurry will not be unnecessarily diluted.
- Prevents one centrifugal pump from robbing all the available gland water in the event of its failure, which could result in the simultaneous failure of all other glands supplied from the same water supply.
- Minimise wastage of available water supplies

Features

- Constant glandwater flow rate
- Back-flow prevention
- High pressure and high temperature handling
- Corrosion and scale resistant assembly



Non-Return Feature. The maintenance free design of the Maric valve uses the flow control rubber as the flexible sealing component in the non-return mechanism. The flexing of the control rubber under normal operating conditions prevents scale build-up on the rubbers surface, which ensures a reliable seal, even after extended periods of no reverse pressure.

Standard Performance

Pressure Differential Range

Unless otherwise specified, **standard** Nitrile “**Precision**” type control rubbers are fitted giving the valve the following standard performance;

Headloss

140 kPa at rated flow. (At lower than rated flows, headloss reduces significantly.)

Flow Rate Accuracy

+/- 10%

Available (Precision) Flow Rates

15 / 16 / 18 / 20 / 23 / 25 / 28 / 32 / 36 / 41 / 45 / 49 / 54 / 59 / 66 lpm

(litres/min)

For flow rates in other control rubber types - contact a Maric rep.

Check Valve Operation

Closed when reverse pressure of 70 kPa exists

Body Material

316 Stainless Steel to ASTM484/A276

Thread Configuration

F&M, Female inlet (parallel), Male outlet, (tapered)

Threads, BSPT

25mm (1”) BSPT to AS1722.1 Female Series RP, Male Series R

Threads, NPT (non-standard)

25mm (1”) NPT to ANSI/ASME B1.20. Female NPSC, Male NPT

Max Hydrostatic Pressure

6000 kPa

Temperature Range

0 - 60 degrees C. (100°C for non-standard EPDM control rubbers)

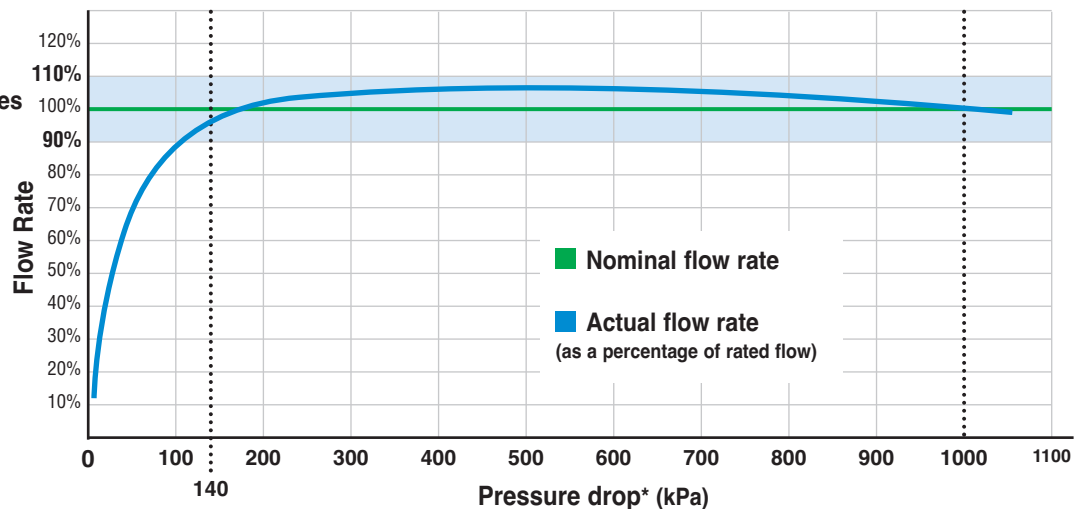
Non-Standard Specifications

Control rubber material EPDM for higher temp and / or caustic handling

Pressure differential ranges 140 - 1500 kPa., & 170 - 2000 kPa. In EPDM or Nitrile - Refer to “How to Specify Maric Valves” Alternative flow rates apply. Flow accuracy is +/- 20%

Performance graph for standard valves with control rubber type, Precision

*Pressure drop is the difference between inlet and outlet pressure across the valve.



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Please Specify When Ordering: Body Size **25mm** Configuration **F&M** Body Material **Stainless** Control Rubber **Precision (or other)** Check **C** Flow Rate **18 to 66 lpm**

Options / Description

Example Part Number for 66 lpm; **25 FM S P C 66**

(Add **N** here for NPT if required)