

Product Data

Screwed Valve bodies

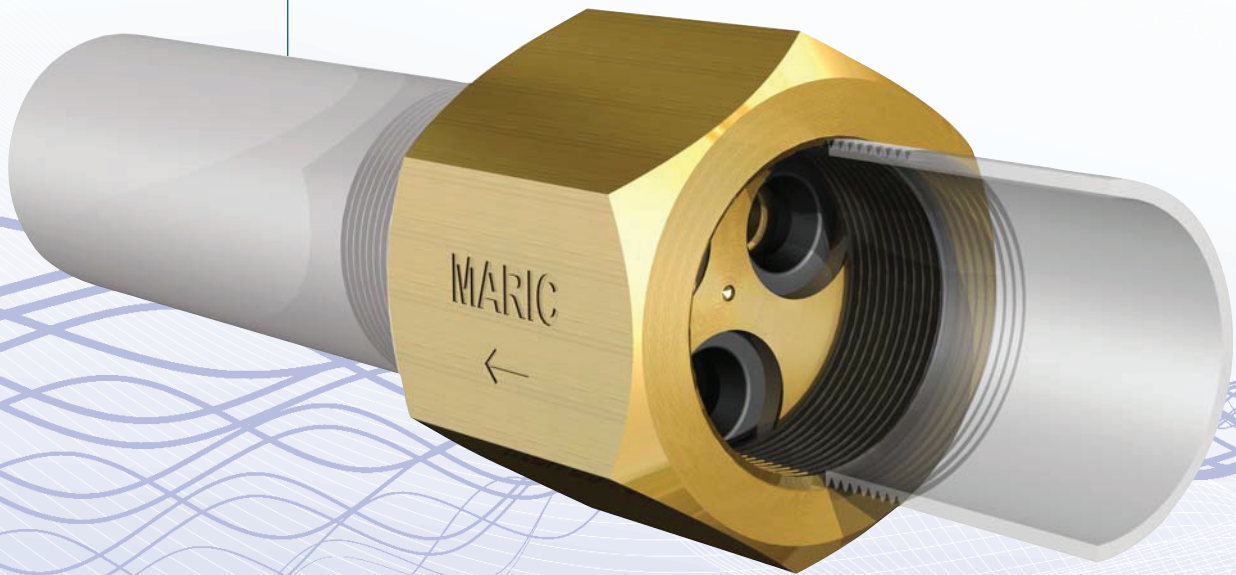
Brass and Chrome

PVC

316 Stainless Steel

Flow Control Check Valves - 15mm

Flow Control Check Valves - 25mm



Maric Flow
Control Valves

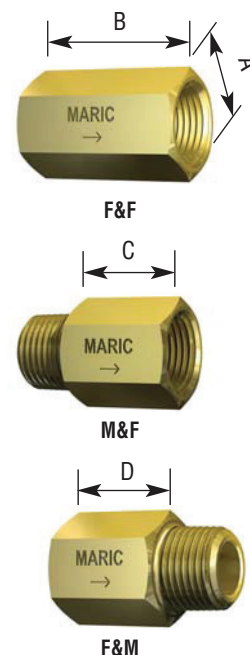
Constant
Flow Rate
Regardless
of Pressure

Specifications – Valve bodies

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 0.4 to 9 l/m
10mm	F&F	from 0.4 to 9 l/m
15mm	F&F, M&F, F&M	from 0.4 to 23 l/m
20mm	F&F, M&F, F&M	from 0.4 to 54 l/m
25mm	F&F, M&F, F&M	from 0.4 to 114 l/m
32mm	F&F	from 0.4 to 233 l/m
40mm	F&F	from 0.4 to 233 l/m
50mm	F&F	from 0.4 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

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.)
.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 / 3.2 / 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

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
Construction	Assembly Threads	Valves comply to Australian Technical Standards ATS5200-037.1 & AS4020 BSPT to AS ISO 7.1-2008 Male Series R, Female RP
Max Pressure Differential		1500 kPa or limited by Control Rubber type
Max Hydrostatic Pressure		6000 kPa
Max Temperature		60°C for Nitrile control rubbers, 100°C for EPDM
Compatible Control Rubbers		P, LP, N6, EP, T, 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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Telephone:

08 8431 2281

(+61 8 8431 2281)

Facsimile:

08 8431 2025

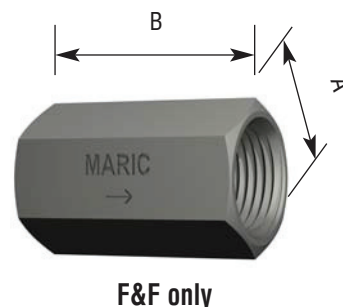


Maric Flow
Control Valves

Constant
Flow Rate
Regardless
of Pressure

Specifications – Valve bodies

Body Sizes	Configurations	Flow Rate Availability
<i>See all Available Flow Rates below</i>		
6mm (1/4")	F&F	from 0.4 to 9 l/m
15mm	F&F	from 0.4 to 23 l/m
20mm	F&F	from 0.4 to 54 l/m
25mm	F&F	from 0.4 to 114 l/m
32mm	F&F	from 0.4 to 233 l/m
40mm	F&F	from 0.4 to 233 l/m
50mm	F&F	from 0.4 to 342 l/m



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.)
.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 / 3.2 / 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

Materials	Body	UPVC compliant with AS4020 drinking water requirements
Construction	Assembly Threads	Valves comply to Australian Technical Standards ATS5200-037.1 BSP to AS ISO 7.1-2008 Series RP (Parallel)
Max Pressure Differential		1000 kPa or limited by Control Rubber type
Max Hydrostatic Pressure		3000 kPa
Max Temperature		50°C
Compatible Control Rubbers		P, LP, EP, V, K, HF

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08 8431 2281
(+61 8 8431 2281)
Facsimile:
08 8431 2025

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

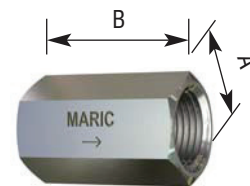


Maric Flow
Control Valves

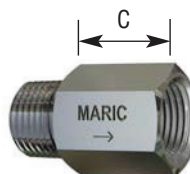
Constant
Flow Rate
Regardless
of Pressure

Specifications – Valve bodies

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 0.4 to 9 l/m
6mm (1/4")	F&F, F&M	F&F	from 0.4 to 9 l/m
10mm	M&F	F&F	from 0.4 to 9 l/m
15mm	F&F, M&F, F&M	F&F	from 0.4 to 23 l/m
20mm	F&F	F&F	from 0.4 to 54 l/m
25mm	F&F, M&F, F&M	F&F	from 0.4 to 114 l/m
32mm	F&F	F&F	from 0.4 to 233 l/m
40mm	F&F	F&F	from 0.4 to 233 l/m
50mm	F&F	F&F	from 0.4 to 233 l/m



F&F



M&F



F&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	33.1	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	-	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

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

+/- 10%

.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 / 3.2 / 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

NPSC to ANSI/ASME B1.20.1

Max Pressure Differential

2000 kPa or limited by Control Rubber type

Max Hydrostatic Pressure

6000 kPa

Max Temperature

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

Compatible Control Rubbers

P, LP, N6, N7, EP, E7, V, HF

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Telephone:

08 8431 2281

(+61 8 8431 2281)

Facsimile:

08 8431 2025

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



Maric Flow Control Valves

Constant
Flow Rate
Regardless
of Pressure

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.

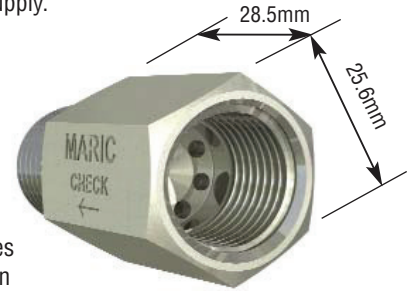
Benefits

- 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, **EP type EPDM** 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

+/- 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 / 3.2 / 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 Male Series R, Female Series RP

Threads, NPT (non-standard)

15mm (1/2") NPT to ANSI/ASME B1.20.1, Male NPT, Female NPSC

Max Hydrostatic Pressure

6000 kPa

Temperature Range

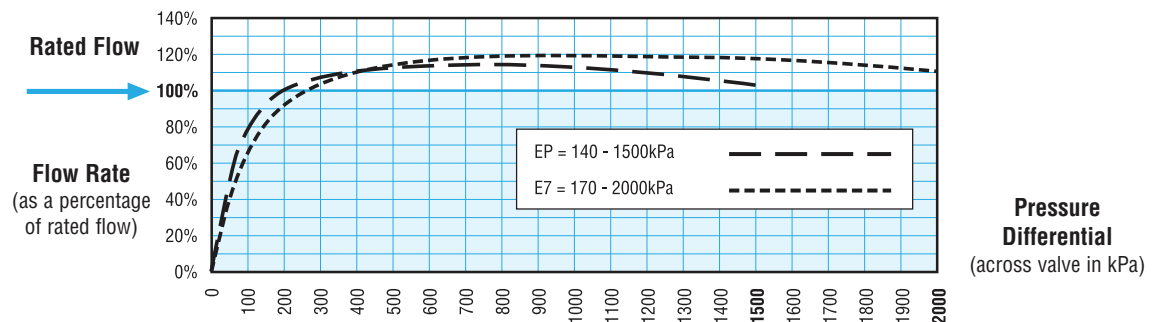
0- 100 degrees C.

Non-Standard Specifications

High pressure 2, "E7", 170 – 2000 kPa. is also available.

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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Telephone:

08 8431 2281

(+61 8 8431 2281)

Facsimile:

08 8431 2025



Please Specify When Ordering:
Options / Description

Body Size
15mm

Configuration
F&M

Body Material
Stainless

Control Rubber
EP (or E7)

Check
C

Flow Rate
0.4 to 18 lpm

Example Part Number for 18 lpm;

15 FM S EP C 18

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

Maric Flow Control Valves

Constant
Flow Rate
Regardless
of Pressure

Application

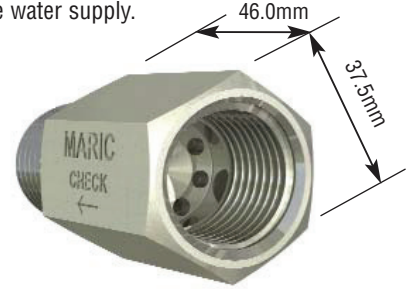
For providing the centrifugal pumping industry with a constant glandwater flow rate to pump glands, with backflow prevention. A constant pre-set maximum flow rate to centrifugal pump glands can be achieved irrespective of fluctuating gland-water supply pressure, gland condition, or centrifugal pump discharge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

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

(litres/min)

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 Male Series R, Female Series RP

Threads, NPT (non-standard)

25mm (1”) NPT to ANSI/ASME B1.20.1 Male NPT, Female NPSC

Max Hydrostatic Pressure

6000 kPa

Temperature Range

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

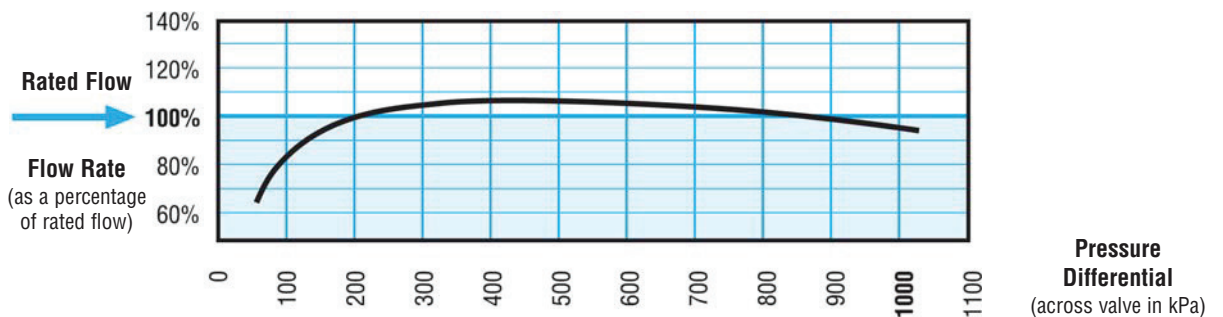
Non-Standard Specifications

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”

Performance Graph

Typical of all PRECISION valves irrespective of body size or flow rate



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(+61 8 8431 2281

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Please Specify When Ordering:

Options / Description

Body Size

25mm

Configuration

F&M

Body Material

Stainless

Control Rubber

Precision (or other)

Check

C

Flow Rate

18 to 66 lpm

Example Part Number for 66 lpm;

25 FM S P C 66

(Add N here for NPT if required)

Product Data

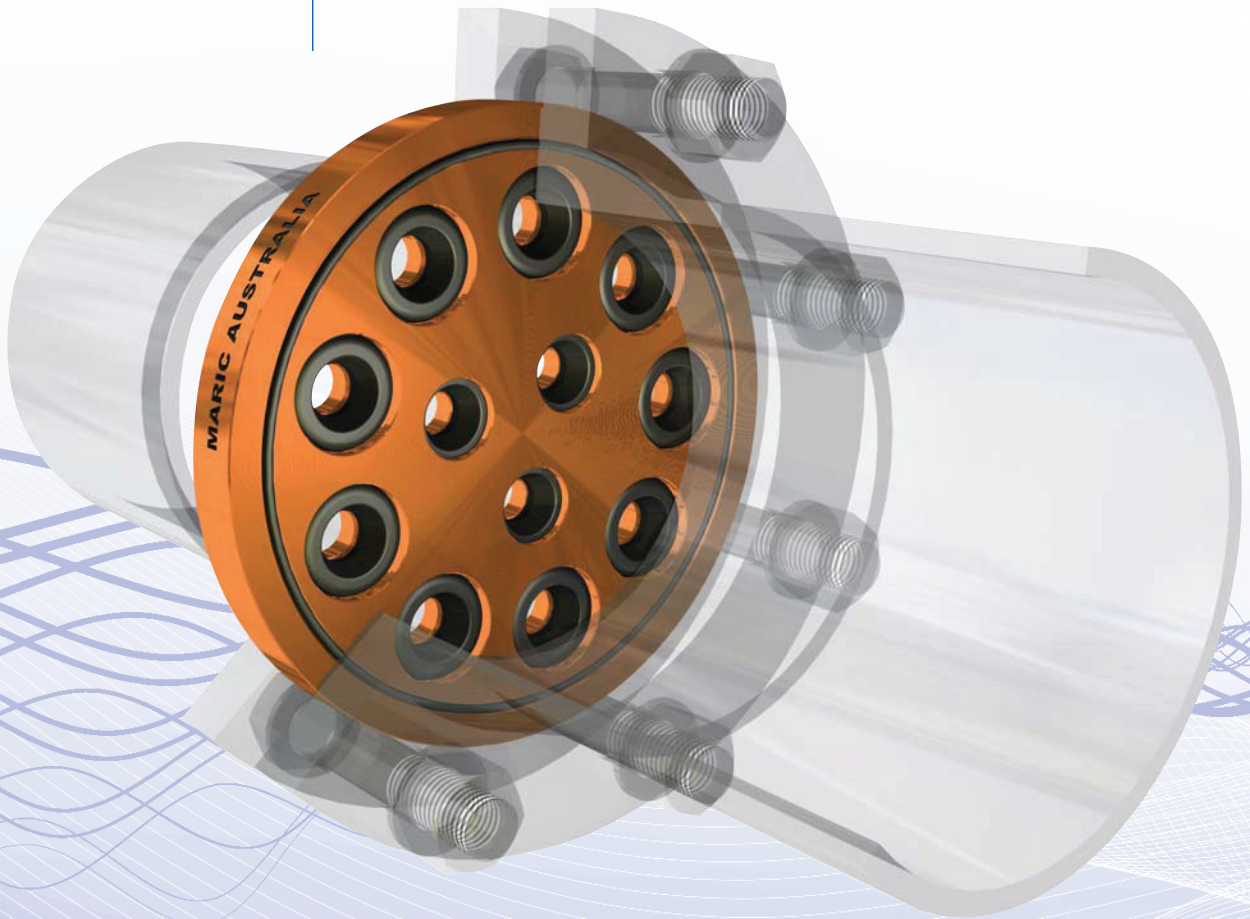
Wafer Valve bodies

Brass

Gunmetal

PVC

316 Stainless Steel



**Maric Flow
Control Valves**

Constant
Flow Rate
Regardless
of Pressure

Specifications – Valve bodies

Designed for mounting between Table “D” pipe flanges.

Sizes	flow rate ranges avail.	standard no. of control rubbers
20mm	from 0.4 to 114 l/m	1
25mm	from 0.4 to 233 l/m	1
32mm	from 0.4 to 233 l/m	1
40mm	from 0.4 to 233 l/m	1
50mm	from 0.4 to 342 l/m	1 – 3



Dimensions & Weights

Nominal size	20	25	32	40	50
Diameter	61.0	71.0	75.0	86.0	98.0
Thickness	22.0	22.0	22.0	22.0	22.0
Approx Weight Kg	0.45	0.6	0.8	0.9	1.2

Standard Performance

Pressure Differential Range
Flow Rate Accuracy
Headloss
Available Flow Rates

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.)

.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 / 3.2 / 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

Materials

Body
Sealing O’Rings

“DR” Brass to AS1567 alloy 352

Nitrile, potable water approved to AS4020 or EPDM or Viton if applicable

Construction

Flange Specification

Valve assemblies comply to Australian Technical Standards ATS5200-037.1

Suits standard table “D” flanges to AS2129 and AS4087 Class 14

Alternative specs are available - *Refer to Valve Selection Guide for additional info.*

Standard Wafers are not full flange type i.e. flange bolts locate wafer concentrically and remain visible when viewing assembly. PVC and Poly Stub Flanges note; Due to smaller I.D. of these flanges/pipes, Optional spacers are often required to prevent restriction. Please contact a Maric rep

Max Pressure Differential

Max Hydrostatic Pressure

Max Temperature

Compatible Control Rubbers

1500 kPa or limited by Control Rubber type

6000 kPa

60°C for Nitrile control rubbers, 100°C for EPDM

P, LP, N6, EP, K, V, HF

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Telephone:

08 8431 2281

(+61 8 8431 2281)

Facsimile:

08 8431 2025



Specifying valves

When ordering these valves, please be sure to specify;

- Body size
- Flange specification (if other than Table D)
- Body material
- Control rubber material and pressure differential range (if other than Precision)
- Flow Rate

**Maric Flow
Control Valves**

Constant
Flow Rate
Regardless
of Pressure

Specifications – Valve bodies

Designed for mounting between Table “D” pipe flanges.

Sizes	flow rate ranges avail.	standard no. of control rubbers
20mm	from 0.4 to 114 l/m	1
25mm	from 0.4 to 233 l/m	1
32mm	from 0.4 to 233 l/m	1
40mm	from 0.4 to 233 l/m	1
50mm	from 0.4 to 342 l/m	1 – 3
65mm	from 0.4 to 456 l/m	4
80mm	from 0.4 to 699 l/m	3
100mm	from 0.4 to 1279 l/m	6
150mm	from 0.4 to 2320 l/m	12
200mm	from 125 to 4427 l/m	19
250mm	from 25 to 6058 l/m	26
300mm	from 125 to 8854 l/m	38



Dimensions & Weights

Nominal size	20	25	32	40	50	65	80	100	150	200	250	300
Diameter	61.0	71.0	75.0	86.0	98.0	111.0	130.0	162.0	219.0	276.0	336.0	386.0
Thickness	22.0	22.0	22.0	22.0	22.0	22.0	22.0	24.0	28.0	35.0	40.0	50.0
Approx Weight Kg	0.45	0.5	0.8	0.9	1.2	1.3	1.9	3.1	7.0	13.0	25.0	45.0

Standard Performance

Pressure Differential Range
Flow Rate Accuracy
Headloss
Available Flow Rates

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.)
.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 / 3.2 / 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 8854 lpm

Materials

Body
Sealing O’Rings

LG2 or LG4 to BS1400
Nitrile, potable water approved to AS4020 or EPDM or Viton if applicable

Flange Specification

Suits standard table “D” flanges to AS2129 and AS4087 Class 14
Alternative specs are available - *Refer to Valve Selection Guide for additional info.*
Standard Wafers are not full flange type i.e. flange bolts locate wafer concentrically and remain visible when viewing assembly. PVC and Poly Stub Flanges note; Due to smaller I.D. of these flanges/pipes, Optional spacers are often required to prevent restriction. Please contact a Maric rep

Max Pressure Differential
Max Hydrostatic Pressure
Max Temperature
Compatible Control Rubbers

1500 kPa or limited by Control Rubber type
6000 kPa
60°C for Nitrile control rubbers, 100°C for EPDM
P, LP, N6, EP, K, V, HF

Specifying valves

When ordering these valves, please be sure to specify;

- Body size
- Flange specification (if other than Table D)
- Body material
- Control rubber material and pressure differential range (if other than Precision)
- Flow Rate

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08 8431 2281

(+61 8 8431 2281)

Facsimile:

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Maric Flow
Control Valves

Specifications – Valve bodies

Constant
Flow Rate
Regardless
of Pressure

Designed for mounting between Table “D” pipe flanges.

Sizes	flow rate ranges avail.	standard no. of control rubbers
20mm	from 0.4 to 114 l/m	1
25mm	from 0.4 to 233 l/m	1
32mm	from 0.4 to 233 l/m	1
40mm	from 0.4 to 233 l/m	1
50mm	from 0.4 to 342 l/m	1 – 3
65mm	from 0.4 to 456 l/m	4
80mm	from 0.4 to 699 l/m	3
100mm	from 0.4 to 1279 l/m	6
150mm	from 0.4 to 2320 l/m	12
200mm	from 125 to 4427 l/m	19
250mm	from 25 to 6058 l/m	26
300mm	from 125 to 8854 l/m	38



Dimensions & Weights

Nominal size	20	25	32	40	50	65	80	100	150	200	250	300
Diameter	61.0	71.0	75.0	86.0	98.0	111.0	130.0	162.0	219.0	276.0	336.0	386.0
Thickness	24.0	24.0	24.0	24.0	24.0	24.0	24.0	39.5	39.5	49.0	80.0	100.0
Approx Weight Kg	0.10	0.12	0.13	0.15	0.23	0.24	0.37	0.93	1.0	2.7	9.0	13.0

Standard Performance

Pressure Differential Range
Flow Rate Accuracy
Headloss
Available Flow Rates

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.)
.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 / 3.2 / 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 8854 lpm

Materials

Body
Sealing O’Rings

Grey UPVC, Special grade to suit potable water requirements to AS4020
Nitrile, potable water approved to AS4020 or EPDM or Viton if applicable

Construction

Flange Specification

Valve assemblies comply to Australian Technical Standards ATS5200-037.1
Suits standard table “D” flanges to AS2129 and AS4087 Class 14
Alternative specs are available - *Refer to Valve Selection Guide for additional info.*
Standard Wafers are not full flange type i.e. flange bolts locate wafer concentrically and remain visible when viewing assembly. PVC and Poly Stub Flanges note; Due to smaller I.D. of these flanges/pipes, Optional spacers are often required to prevent restriction. Please contact a Maric rep

Max Pressure Differential
Max Hydrostatic Pressure
Max Temperature
Compatible Control Rubbers

1000 kPa or limited by Control Rubber type
3000 kPa
50°C
P, LP, EP, K, V, HF

Specifying valves

When ordering these valves, please be sure to specify;

- Body size
- Flange specification (if other than Table D)
- Body material
- Control rubber material and pressure differential range (if other than Precision)
- Flow Rate

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Facsimile:
08 8431 2025



Constant
Flow Rate
Regardless
of Pressure

Standard Specifications – Valve bodies

Designed for mounting between Table “D” pipe flanges.

Sizes	flow rate ranges avail.	standard no. of control rubbers
20mm	from 0.4 to 114 l/m	1
25mm	from 0.4 to 233 l/m	1
32mm	from 0.4 to 233 l/m	1
40mm	from 0.4 to 233 l/m	1
50mm	from 0.4 to 342 l/m	1 – 3
65mm	from 0.4 to 456 l/m	4
80mm	from 0.4 to 699 l/m	3
100mm	from 0.4 to 1279 l/m	6
150mm	from 0.4 to 2320 l/m	12
200mm	from 125 to 4427 l/m	19
250mm	from 25 to 6058 l/m	26
300mm	from 125 to 8854 l/m	38



Dimensions & Weights

Nominal size	20	25	32	40	50	65	80	100	150	200	250	300
Diameter	61.0	71.0	75.0	86.0	98.0	111.0	130.0	162.0	219.0	276.0	336.0	386.0
Thickness	22.0	22.0	22.0	22.0	22.0	22.0	22.0	24.0	24.0	28.0	32.0	40.0
Approx Weight Kg	0.45	0.6	0.7	0.9	1.2	1.2	1.6	2.7	5.0	11.0	19.0	31.0

Standard Performance

Pressure Differential Range
Flow Rate Accuracy
Headloss
Available Flow Rates

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.)
.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 / 3.2 / 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

Materials
Body
Sealing O’Rings
Flange Specification

316 Stainless Steel to ASTM484/A276
Nitrile, potable water approved to AS4020 or EPDM or Viton if applicable
Suits standard table “D” flanges to AS2129 and AS4087 Class 14
Alternative specs are available - *Refer to Valve Selection Guide for additional info.*
Standard Wafers are not full flange type i.e. flange bolts locate wafer concentrically and remain visible when viewing assembly. PVC and Poly Stub Flanges note; Due to smaller I.D. of these flanges/pipes, Optional spacers are often required to prevent restriction. Please contact a Maric rep

Max Pressure Differential
Max Hydrostatic Pressure
Max Temperature
Compatible Control Rubbers

1000 kPa or limited by Control Rubber type
6000 kPa
50°C
P, LP, EP, K, V, HF

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(+61 8 8431 2281)
Facsimile:
08 8431 2025



Specifying valves

When ordering these valves, please be sure to specify;

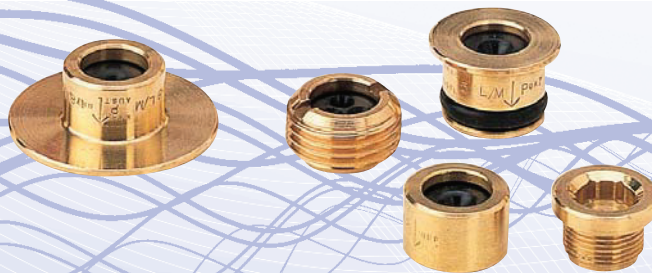
- Body size
- Flange specification (if other than Table D)
- Body material
- Control rubber material and pressure differential range (if other than Precision)
- Flow Rate

Product Data

Insert Valve bodies

Plain inserts - Brass and PVC

Special inserts for water meters and tails



Standard Specifications – Valve bodies

Constant
Flow Rate
Regardless
of Pressure

Sizes and flow rate ranges available

1/4 inch	from 0.4	to 9	l/m
15mm	from 0.4	to 23	l/m
20mm	from 8	to 54	l/m
25mm	from 15	to 114	l/m
40mm	from 125	to 233	l/m



Available flow rates litres/minute

.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 / 3.2 / 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 /
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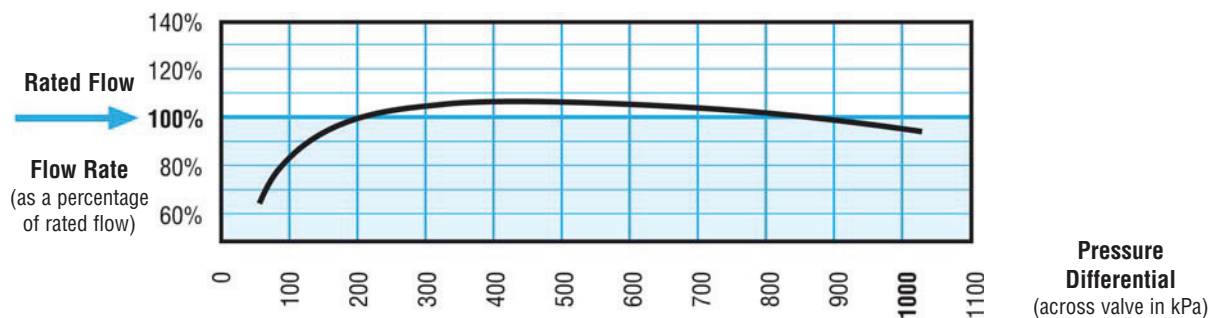
Pressure Differential Range 140 – 1000 KPA

Flow Rate Accuracy + / - 10%

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

Temperature Range 0 – 50°C

Performance Graph; Typical of **PRECISION** valves irrespective of body size or flow rate



Materials	Body	Brass	“DR” Brass to AS1567 - 352
		PVC	Grey UPVC, Special grade to suit potable water requirements to AS4020
	Control rubber		Nitrile butadiene, potable water approved to AS4020

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Insert Dimensions & Weights

Nominal size	6	15	20	25	40
Diameter “A”	12.45	18.40	26.70	37.85	50.40
Length “B”	8.0	11.1	15.1	17.5	22.4
Brass Kg	0.005	0.013	0.027	0.065	-
PVC Kg	0.001	0.003	0.008	-	0.043

Non-Standard Specifications - Higher flow rates, Kwyflo (quiet) valves, EPDM or Viton control rubbers, Higher or lower pressure ranges, or higher temperature ranges may be available in certain valve configurations.

Refer to Product Data - Control Rubbers for additional information.



**Document Under
Construction**

Available flow rates litres/minute

.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 / 3.2 / 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 /

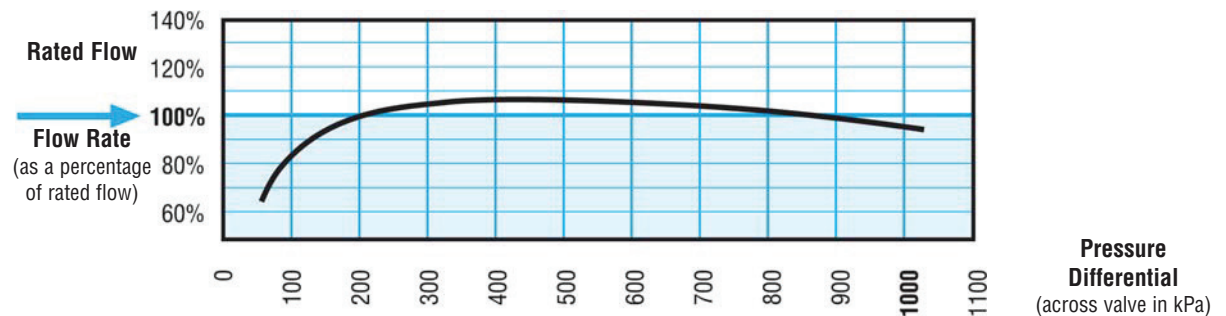
Pressure Differential Range 140 – 1000 KPA

Flow Rate Accuracy + / - 10%

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

Temperature Range

Performance Graph; Typical of **PRECISION** valves irrespective of body size or flow rate



Materials

Body Brass
PVC
Control rubber
O'Rings

"DR" Brass to AS1567 - 352

Grey UPVC, Special grade to suit potable water requirements to AS4020

Nitrile butadiene, potable water approved to AS4020

Nitrile, potable water approved to AS4020

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Insert Dimensions

Non-Standard Specifications - Higher flow rates, Kwyflo (quiet) valves, EPDM or Viton control rubbers, Higher or lower pressure ranges, or higher temperature ranges may be available in certain valve configurations. Refer to Product Data - Control Rubbers for additional information.

