

Control Valves, Fittings and Accessories

INTERNATIONAL



WS2CI/QC

473 lpm
28.4 m³/h
125 gpm



WS2EI/QC

473 lpm
28.4 m³/h
125 gpm



WS2H*

473 lpm
28.4 m³/h
125 gpm



WS3

946 lpm
56.8 m³/h
250 gpm



WS1.5CI

227 lpm
13.6 m³/h
60 gpm



WS1.5EI

227 lpm
13.6 m³/h
60 gpm



WS2CI

435 lpm
26.1 m³/h
115 gpm



WS2EI

435 lpm
26.1 m³/h
115 gpm



WS1.25*

129 lpm
7.7 m³/h
34 gpm



WS1.25CI*

129 lpm
7.7 m³/h
34 gpm



WS1.25EI*

129 lpm
7.7 m³/h
34 gpm



WS1.25TC*

129 lpm
7.7 m³/h
34 gpm



WS1*

102 lpm
6.1 m³/h
27 gpm



WS1CI*

102 lpm
6.1 m³/h
27 gpm



WS1EI*

102 lpm
6.1 m³/h
27 gpm



WS1TC*

102 lpm
6.1 m³/h
27 gpm

*Valves shown with optional bypass.

Clack™ ®

1" WATER SPECIALIST VALVE SPECIFICATIONS

INTERNATIONAL

Clack™ 



SPECIFICATIONS

WS1

WS1CI

Service @ 1 bar/15 psi drop	102 lpm, 6.1 m ³ /h (includes meter and bypass)	102 lpm, 6.1 m ³ /h (includes meter and bypass)
Backwash @ 1.7 bar/25 psi drop	102 lpm, 6.1 m ³ /h (includes bypass)	102 lpm, 6.1 m ³ /h (includes bypass)
Tank Applications:		
Softener	6" - 21" diameter	6" - 21" diameter
Filter (1)	6" - 21" diameter	6" - 21" diameter
Inlet/Outlet Fitting Connections	3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent	3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent
Valve Material	Noryl (2)	Noryl (2)
Cycles	Up to 6	Up to 9
Regeneration	Downflow/Upflow	Downflow/Upflow
Operating Pressures	1.4 - 8.6 bar	1.4 - 8.6 bar
Operating Temperatures	4° - 43° C	4° - 43° C
Meter:		
Flow Rate Range	0.95 - 102 lpm	1 - 102 lpm
Volume Range (cubic meters)	.07 - 189m ³	.10 - 2000.0m ³
Totalizer	Yes	Yes
Distributor Pilot	1.050 O.D. Pipe	1.050 O.D. Pipe
Drain Line Connection	3/4" Male NPT Standard 1" Male NPT Optional	3/4" Male NPT Standard 1" Male NPT Optional
Brine Line Connection	3/8" or 1/2" O.D. Poly Tube Compression	3/8" or 1/2" O.D. Poly Tube Compression
Mounting Base Options	2 1/2" - 8 NPSM	2 1/2" - 8 NPSM
Height From Top of Tank	187mm	187mm
Shipping Weight	2 Kg	2 Kg
Electrical:		
Supply Voltage	230V AC	230V AC
Supply Frequency	50 Hz	50 Hz
Output Voltage	12V AC	12V AC
Output Current	500 mA	500 mA

1. Filter tank size calculated @ 407 lpm per m² of bed area/10 gpm of backwash per square foot of bed area
2. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company

1" WATER SPECIALIST VALVE SPECIFICATIONS






WS1EI

WS1TC

<p>102 lpm, 6.1 m³/h (includes meter and bypass) 102 lpm, 6.1 m³/h (includes bypass)</p>	<p>102 lpm, 6.1 m³/h (includes meter and bypass) 102 lpm, 6.1 m³/h (includes bypass)</p>
<p>6" - 21" diameter 6" - 21" diameter</p>	<p>6" - 21" diameter 6" - 21" diameter</p>
<p>3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent</p>	<p>3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent</p>
<p>Noryl (2) Up to 6 Downflow</p>	<p>Noryl (2) Up to 6 Downflow</p>
<p>1.4 - 8.6 bar 4° - 43° C</p>	<p>1.4 - 8.6 bar 4° - 43° C</p>
<p>0.95 - 102 lpm .07 - 189m³ Yes</p>	<p>Not Applicable</p>
<p>1.050 O.D. Pipe</p>	<p>1.050 O.D. Pipe</p>
<p>3/4" Male NPT Standard 1" Male NPT Optional</p>	<p>3/4" Male NPT Standard 1" Male NPT Optional</p>
<p>3/8" or 1/2" O.D. Poly Tube Compression</p>	<p>3/8" or 1/2" O.D. Poly Tube Compression</p>
<p>2 1/2" - 8 NPSM</p>	<p>2 1/2" - 8 NPSM</p>
<p>187mm</p>	<p>187mm</p>
<p>2 Kg</p>	<p>2 Kg</p>
<p>230V AC 50 Hz 12V AC 500 mA</p>	<p>230V AC 50 Hz 12V AC 500 mA</p>

Valves shown with optional bypass.

1.25" WATER SPECIALIST VALVE SPECIFICATIONS

		
SPECIFICATIONS	WS1.25	WS1.25CI
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	129 lpm, 7.7 m ³ /h (includes meter and bypass) 121 lpm, 7.3 m ³ /h (includes bypass)	129 lpm, 7.7 m ³ /h (includes meter and bypass) 121 lpm, 7.3 m ³ /h (includes bypass)
Tank Applications: Softener Filter (1)	6" - 21" diameter 6" - 24" diameter	6" - 21" diameter 6" - 24" diameter
Inlet/Outlet Fitting Connections	3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent	3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent
Valve Material Cycles Regeneration	Noryl (2) Up to 6 Downflow	Noryl (2) Up to 9 Downflow
Operating Pressures Operating Temperatures	1.4 - 8.6 bar 4° - 43° C	1.4 - 8.6 bar 4° - 43° C
Meter: Flow Rate Range Volume Range (cubic meters) Totalizer	0.95 - 129 lpm .500 - 250.0m ³ Yes	1 - 129 lpm .10 - 2000.0m ³ Yes
Distributor Pilot	32mm O.D. Pipe	32mm O.D. Pipe
Drain Line Connection	3/4" Male NPT Standard 1" Male NPT Optional	3/4" Male NPT Standard 1" Male NPT Optional
Brine Line Connection	3/8" or 1/2" O.D. Poly Tube Compression	3/8" or 1/2" O.D. Poly Tube Compression
Mounting Base Options	2-1/2" - 8 NPSM	2-1/2" - 8 NPSM
Height From Top of Tank	187mm	187mm
Shipping Weight w/Meter	2 Kg	2 Kg
Electrical: Supply Voltage Supply Frequency Output Voltage Output Current	230V AC 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA

1. Filter tank size calculated @ 407 lpm per m² of bed area/10 gpm of backwash per square foot of bed area
2. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company

1.25" WATER SPECIALIST VALVE SPECIFICATIONS






WS1.25EI

WS1.25TC

129 lpm, 7.7 m ³ /h (includes meter and bypass) 121 lpm, 7.3 m ³ /h (includes bypass)	129 lpm, 7.7 m ³ /h (includes meter and bypass) 121 lpm, 7.3 m ³ /h (includes bypass)
6" - 21" diameter 6" - 24" diameter	6" - 21" diameter 6" - 24" diameter
3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent	3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent
Noryl (2) Up to 6 Downflow	Noryl (2) Up to 6 Downflow
1.4 - 8.6 bar 4° - 43° C	1.4 - 8.6 bar 4° - 43° C
.95 - 129 lpm .0500 - 250.0m ³ Yes	Not Applicable
32mm O.D. Pipe	32mm O.D. Pipe
3/4" Male NPT Standard 1" Male NPT Optional	3/4" Male NPT Standard 1" Male NPT Optional
3/8" or 1/2" O.D. Poly Tube Compression	3/8" or 1/2" O.D. Poly Tube Compression
2-1/2" - 8 NPSM	2-1/2" - 8 NPSM
187mm	187mm
2 Kg	2 Kg
230V AC 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA

Valves shown with optional bypass.

1.5" WATER SPECIALIST VALVE SPECIFICATIONS

		
SPECIFICATIONS	WS1.5CI	WS1.5EI
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	227 lpm, 13.6 m ³ /h 189 lpm, 11.4 m ³ /h	227 lpm, 13.6 m ³ /h 189 lpm, 11.4 m ³ /h
Tank Applications: Softener Filter (1)	12" - 24" diameter 12" - 30" diameter	12" - 24" diameter 12" - 30" diameter
Inlet/Outlet Fitting Connections	1.5" Female BSPT or NPT	1.5" Female BSPT or NPT
Valve Material Cycles Regeneration	Lead Free Brass Up to 9 Downflow	Lead Free Brass Up to 6 Downflow
Operating Pressures Operating Temperatures	1.4 - 8.6 bar 4° - 43° C	1.4 - 8.6 bar 4° - 43° C
Meter: Flow Rate Range Volume Range Totalizer	2 - 284 lpm 0.02 - 5700 m ³ Yes	2 - 284 lpm 0.02 - 5700 m ³ Yes
Distributor Pilot	50mm O.D. or 1.90" O.D. Pipe	50mm O.D. or 1.90" O.D. Pipe
Drain Line Connection	1.25" Female NPT with 3/4" Male NPT Standard 1" Male NPT Optional	1.25" Female NPT with 3/4" Male NPT Standard 1" Male NPT Optional
Brine Line Connection	3/4" Female NPT 1/2" O.D. Poly Tube Compression	3/4" Female NPT 1/2" O.D. Poly Tube Compression
Mounting Base Options	4" - 8 UN	4" - 8 UN
Height From Top of Tank	191mm	191mm
Shipping Weight w/Meter	9.5 Kg	9.5 Kg
Electrical: Supply Voltage Supply Frequency Output Voltage Output Current	230V AC 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA

1. Filter tank size calculated @ 407 lpm per m² of bed area/10 gpm of backwash per square foot of bed area
2. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company

2" WATER SPECIALIST VALVE SPECIFICATIONS



WS2CI

WS2CI/QC

WS2EI

WS2EI/QC

435 lpm, 26.1 m³/h
303 lpm, 18.2 m³/h

473 lpm, 28.4 m³/h
322 lpm, 19.3 m³/h

435 lpm, 26.1 m³/h
303 lpm, 18.2 m³/h

473 lpm, 28.4 m³/h
322 lpm, 19.3 m³/h

12" - 48" diameter
12" - 36" diameter

12" - 48" diameter
12" - 36" diameter

12" - 48" diameter
12" - 36" diameter

12" - 48" diameter
12" - 36" diameter

2" Female BSPT or
NPT

2" Female BSPT or
NPT

2" Female BSPT or
NPT

2" Female BSPT or
NPT

Lead Free Brass
Up to 9
Downflow

Lead Free Brass
Up to 9
Downflow

Lead Free Brass
Up to 6
Downflow

Lead Free Brass
Up to 6
Downflow

1.4 - 8.6 bar
4° - 43° C

1.4 - 8.6 bar
4° - 43° C

1.4 - 8.6 bar
4° - 43° C

1.4 - 8.6 bar
4° - 43° C

5.7 - 568 lpm
0.02 - 5700 m³
Yes

5.7 - 568 lpm
0.02 - 5700 m³
Yes

5.7 - 568 lpm
0.02 - 5700 m³
Yes

5.7 - 568 lpm
0.02 - 5700 m³
Yes

50mm O.D. or 1.90" O.D. Pipe

63mm O.D. or 2.375" O.D. Pipe

50mm O.D. or 1.90" O.D. Pipe

63mm O.D. or 2.375" O.D. Pipe

1.5" Female NPT

1.5" Female NPT

1.5" Female NPT

1.5" Female NPT

1" Male NPT elbow
3/4" x 1" Solvent elbow
1/2" O.D. Poly Tube
Compression

1" Male NPT elbow
3/4" x 1" Solvent elbow
1/2" O.D. Poly Tube
Compression

1" Male NPT elbow
3/4" x 1" Solvent elbow
1/2" O.D. Poly Tube
Compression

1" Male NPT elbow
3/4" x 1" Solvent elbow
1/2" O.D. Poly Tube
Compression

4" - 8 UN

Quick Disconnect
4" - 8 UN
6" Flange or Side Mount

4" - 8 UN

Quick Disconnect
4" - 8 UN
6" Flange or Side Mount

216mm

191mm

216mm

191mm

13 Kg

14 Kg

13 Kg

14 Kg

230V AC
50 Hz
12V AC
500 mA

230V AC
50 Hz
12V AC
500 mA

230V AC
50 Hz
12V AC
500 mA

230V AC
50 Hz
12V AC
500 mA

2" & 3" WATER SPECIALIST VALVE SPECIFICATIONS

INTERNATIONAL

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SPECIFICATIONS

WS2H

WS3

Service @ 1 bar/15 psi drop	473 lpm, 28.4 m ³ /h (includes meter)	946 lpm, 56.8 m ³ /h
Backwash @ 1.7 bar/25 psi drop	473 lpm, 28.4 m ³ /h	833 lpm, 50.0 m ³ /h
Tank Applications:		
Softener	18" - 63" diameter	18" - 96" diameter
Filter (1)	18" - 48" diameter	18" - 63" diameter
Inlet/Outlet Fitting Connections	2" Female BSPT or NPT/ 2.5" Groove Lock	3" Female BSPT or NPT
Valve Material	Lead Free Brass	Lead Free Brass
Cycles Regeneration	Up to 9 Downflow	Up to 9 Downflow
Operating Pressures	1.4 - 8.6 bar	1.4 - 8.6 bar
Operating Temperatures	4° - 43° C	4° - 43° C
Meter:		
Flow Rate Range	5.7 - 473 lpm	13 - 1,325 lpm
Volume Range	38 - 3796.2 liters x 1000	38 - 3796.2 liters x 1000
Totalizer	Yes	Yes
Distributor Pilot	63mm O.D. or 2.375" O.D. Pipe	90mm or 3.5" O.D. Pipe 3" NPS
Drain Line Connection	2" Female NPT or BSPT 2.5" Groove Lock	3" Female NPT or BSPT
Brine Line Connection	1" Male NPT elbow 3/4" x 1" Solvent elbow	1" Male NPT elbow 3/4" x 1" Solvent elbow
Mounting Base Options	Quick Disconnect 4" - 8 UN 6" Flange Side Mount	Quick Disconnect 6" Flange Side Mount
Height From Top of Tank	280mm	318mm
Shipping Weight w/Meter	22.7 Kg	25.9 Kg
Electrical:		
Supply Voltage	230V AC	230V AC
Supply Frequency	50 Hz	50 Hz
Output Voltage	24V AC	24V AC
Output Current	750 mA	750 mA

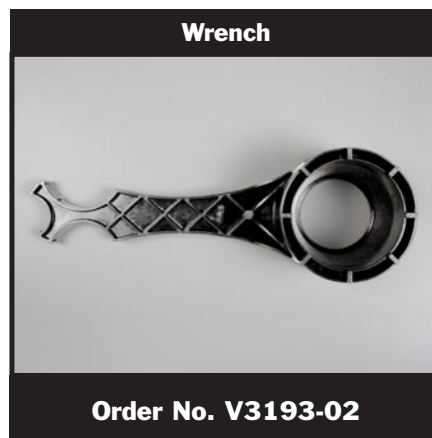
1. Filter tank size calculated @ 407 lpm per m² of bed area/10 gpm of backwash per square foot of bed area

2. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company

1" & 1.25" Control Valve Fittings and Accessories



1" & 1.25" Control Valve Fittings and Accessories



1" & 1.25" Control Valve Fittings and Accessories

**1" & 1.25"
Motorized Alternating Valve**



Order No. V3069FF • F x F

**1" & 1.25"
Motorized Alternating Valve**



Order No. V3069MM • M x M

**1" & 1.25"
No Hard Water Bypass Valve**



Order No. V3070FF • F x F

**1" & 1.25"
No Hard Water Bypass Valve**



Order No. V3070FM • F x M

1.5", 2" and 3" Control Valve Accessories

1.5"
Motorized Alternating Valve



Order No. V3071 • NPT
Order No. V3071BSPT • BSPT

2.0"
Motorized Alternating Valve



Order No. V3076 • NPT
Order No. V3076BSPT • BSPT

3"
Motorized Alternating Valve

Available later in 2009



Order No. V3083 • NPT
Order No. V3083BSPT • BSPT