



#### 1" WATER SPECIALIST VALVE SPECIFICATIONS







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<b>SPECIFICATIONS</b>	WS1	WS1CI
Service @ 1 bar/15 psi drop	102 lpm, 6.1 m <sup>3</sup> /h (includes meter and bypass)	102 lpm, 6.1 m³/h (includes meter and bypass)
Backwash @ 1.7 bar/25 psi drop	102 lpm, 6.1 m³/h (includes bypass)	102 lpm, 6.1 m³/h (includes bypass)
Tank Applications:	C" 04" diameter	C" O4" diameter
Softener Filter (1)	6" - 21" diameter 6" - 21" diameter	6" - 21" diameter 6" - 21" diameter
Inlet/Outlet	3/4" - 1.25" Male BSPT	3/4" - 1.25" Male BSPT
Fitting Connections	<sup>3</sup> / <sub>4</sub> " - 1.5" Sweat	<sup>3</sup> / <sub>4</sub> " - 1.5" Sweat
_	<sup>3</sup> ⁄ <sub>4</sub> " - 1.5" Solvent	<sup>3</sup> ⁄ <sub>4</sub> " - 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	.95 - 102 lpm	.95 - 102 lpm
Volume Range (cubic meters) Totalizer	.07 - 189m³	.10 - 2000.0m³
	Yes	Yes
Distributor Pilot	1.050 O.D. Pipe	1.050 O.D. Pipe
Drain Line Connection	<ul><li>¾" Male NPT Standard</li><li>1" Male NPT Optional</li></ul>	3/4" Male NPT Standard 1" Male NPT Optional
Brine Line Connection	3/8" or 1/2" O.D.	3/8" or 1/2" O.D.
	Poly Tube Compression	Poly Tube Compression
Mounting Base Options	2½" - 8 NPSM	2½" - 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

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

<sup>2.</sup> Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company

### 1" WATER SPECIALIST VALVE SPECIFICATIONS





WS1EI WS1SP	WS1TC
102 lpm, 6.1 m <sup>3</sup> /h (includes meter and bypass)	102 lpm, 6.1 m <sup>3</sup> /h (includes meter and bypass)
102 lpm, 6.1 m <sup>3</sup> /h (includes bypass)	102 lpm, 6.1 m³/h (includes bypass)
6" - 21" diameter 6" - 21" diameter 3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent Noryl (2) Up to 6	6" - 21" diameter 6" - 21" diameter 3/4" - 1.25" Male BSPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent Noryl (2) Up to 6
Downflow	Downflow
1.4 - 8.6 bar 4° - 43° C	1.4 - 8.6 bar 4° - 43° C
.95 - 102 lpm .02 - 5700m <sup>3</sup> Yes	Not Applicable
1.050 O.D. Pipe	1.050 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.	3/8" or 1/2" O.D.
Poly Tube Compression	Poly Tube Compression
2½" - 8 NPSM	2½" - 8 NPSM
187mm	187mm
2 Kg	2 Kg
230V AC or 6AA NMHB 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA

#### 1.25" WATER SPECIALIST VALVE SPECIFICATIONS







SPECIFICATIONS	W\$1.25	WS1.25CI
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	129 lpm, 7.7 m³/h (includes meter and bypass) 121 lpm, 7.3 m³/h (includes bypass)	129 lpm, 7.7 m³/h (includes meter and bypass) 121 lpm, 7.3 m³/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	.95 - 129 lpm .500 - 250.0m³ Yes	.95 - 129 lpm .10 - 2000.0m³ 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	230V AC 50 Hz 12V AC	230V AC 50 Hz 12V AC
Output Current	500 mA	500 mA

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

<sup>2.</sup> Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company

### 1.25" WATER SPECIALIST VALVE SPECIFICATIONS





WS1.25EI WS1.25SP	WS1.25TC
129 lpm, 7.7 m³/h (includes meter and bypass)	129 lpm, 7.7 m³/h (includes meter and bypass)
121 lpm, 7.3 m³/h (includes bypass)	121 lpm, 7.3 m³/h (includes bypass)
6" - 21" diameter 6" - 24" diameter	6" - 21" diameter 6" - 24" diameter
3/4" - 1.25" Male BSPT	3/4" - 1.25" Male BSPT
3/4" - 1.5" Sweat	3/4" - 1.5" Sweat
3/4" - 1.5" Solvent	3/4" - 1.5" Solvent
Noryl (2)	Noryl (2)
Up to 6	Up to 6
Downflow	Downflow
1.4 - 8.6 bar	1.4 - 8.6 bar
4° - 43° C	4° - 43° C
.95 - 129 lpm .02 - 5700m³ Yes	Not Applicable
32mm O.D. Pipe	32mm O.D. Pipe
3/4" Male NPT Standard	3/4" Male NPT Standard
1" Male NPT Optional	1" Male NPT Optional
3/8" or 1/2" O.D.	3/8" or 1/2" O.D.
Poly Tube Compression	Poly Tube Compression
2-1/2" - 8 NPSM	2-1/2" - 8 NPSM
187mm	187mm
2 Kg	2 Kg
230V AC or 6AA NMHB 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA

#### 1.5" WATER SPECIALIST VALVE SPECIFICATIONS







<b>SPECIFICATIONS</b>	WS1.5CI	WS1.5EI WS1SP
Service @ 1 bar/15 psi drop	246 lpm, 14.7 m <sup>3</sup> /h	246 lpm, 14.7 m³/h
Backwash @ 1.7 bar/25 psi drop	208 lpm, 12.4 m³/h	208 lpm, 12.4 m³/h
Tank Applications:		
Softener	12" - 24" diameter	12" - 24" diameter
Filter (1)	12" - 30" diameter	12" - 30" diameter
Inlet/Outlet Fitting Connections	1.5" Female BSPT or NPT	1.5" Female BSPT or NPT
Valve Material	Lead Free Brass	Lead Free Brass
Cycles	Up to 9	Up to 6
Regeneration	Downflow	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 <sup>3</sup> Yes	2 - 284 lpm 0.02 - 5700 m <sup>3</sup> 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 34" 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	230V AC 50 Hz 12V AC	230V AC or 6AA NMHB 50 Hz 12V AC
Output Current	500 mA	500 mA

<sup>1.</sup> Filter tank size calculated @ 407 lpm per  $m^2$  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 WS2SP	WS2EI/QC WS2SP/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 m <sup>3</sup> Yes	5.7 - 568 lpm 0.02 - 5700 m <sup>3</sup> Yes	5.7 - 568 lpm 0.02 - 5700 m <sup>3</sup> Yes	5.7 - 568 lpm 0.02 - 5700 m <sup>3</sup> 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 ¾" x 1" Solvent elbow ½" O.D. Poly Tube Compression	1" Male NPT elbow ¾" x 1" Solvent elbow ½" 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	with 4" - 8 UN QC Base is 284.5mm with 6" Flange QC Base is 287mm	216mm	with 4" - 8 UN QC Base is 284.5mm with 6" Flange QC Base is 287mm
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 or 6AA NMHB 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA
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#### 2" & 3" WATER SPECIALIST VALVE SPECIFICATIONS







<b>SPECIFICATIONS</b>	WS2H	WS3
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	473 lpm, 28.4 m³/h (includes meter) 473 lpm, 28.4 m³/h	946 lpm, 56.8 m³/h 833 lpm, 50.0 m³/h
Tank Applications: Softener Filter (1)	18" - 63" diameter 18" - 48" diameter	18" - 96" diameter 18" - 63" diameter
Inlet/Outlet Fitting Connections	2" Female BSPT or NPT/ 2.5" Groove Lock	3" Female BSPT or NPT
Valve Material Cycles Regeneration	Lead Free Brass Up to 9 Downflow	Lead Free Brass 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 Totalizer	5.7 - 473 lpm 38 - 3796.2 liters x 1000 Yes	13 - 1,325 lpm 38 - 3796.2 liters x 1000 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 ¾" x 1" Solvent elbow	1" Male NPT elbow ¾" 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	with 4" - 8 UN QC Base is 292mm with 6" Flange QC Base is 294.6mm	with 6" Flange QC Base is 318mm
Shipping Weight w/Meter	22.7 Kg	25.9 Kg
Electrical: Supply Voltage Supply Frequency Output Voltage	230V AC 50 Hz 24V AC	230V AC 50 Hz 24V AC
Output Current	750 mA	750 mA

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

<sup>2.</sup> 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





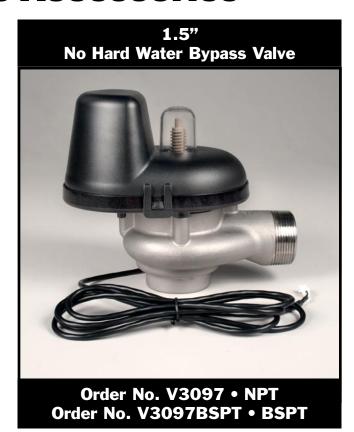


## 1.5" and 2" Control Valve Accessories





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







## **3" Control Valve Accessories**

