



NEW WS1EE TWIN ALTERNATING CONTROL VALVE

28 gpm





- Service flow 28 gpm, backwash flow 15 gpm with meter and bypass installed
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer), and Tank in Service Indication
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with a 8 hour carry over
- Backwash and brining ability to 21" diameter tanks
- Downflow regeneration
- 12-volt output AC Adapter provides safe and easy installation
- Treated/Soft water post fill and regeneration cycles
- Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
- Patented linearly reciprocating piston operation U.S. Patent 6,444,127
- Reliable and proven DC drives

Water Specialist 1" EE Twin Alternating Specifications

Inlet/Outlet Fittings	¾" to 1.5" NPS
Cycles	
Valve Material	•
Regeneration	• • •
Tiogorio adori	downlow
FLOW RATES	
Service @15 psi drop (includes bypass and meter)	28 anm
Backwash @ 25 psi drop (includes bypass)	
Cv Service	
Cv Backwash	
OPERATING PRESSURES	
Minimum/Maximum	20 psi – 125 psi
OPERATING TEMPERATURES	
Minimum/Maximum	40° – 110° F
WIII III III III III III III III III II	
METER	
Accuracy	± 5%
Flow Rate Range	
Gallon Range	0.
Totalizer	
10taii201	1000 - 3,000,000 gallons
DIMENSIONS & WEIGHT	
Distributor Pilot	1.050" OD Pipe (¾" NPS)
Drain Line	
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
Worght	10 103.
ELECTRICAL SPECIFICATIONS	AC Adapter
	U.S. International
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	
Output Ourrent	500 IIIA
TANK APPLICATIONS	
Water Softener	6" - 21" diameter
Water Filter (2)	
——————————————————————————————————————	
CYCLES OF OPERATION (Softener / Filter Downflow)	
,	Softener Filter
Cycle	Range of time in minutes
1. Backwash 1st	
2. Regenerate Draw/Slow Rinse	
3. Backwash 2 nd	
4. Fast Rinse	
5. Regenerant Refill	
6. Service (downflow)	3.1-33.0 01 011
o. Oel vice (dowlillow)	

Options: Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

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

1" WATER SPECIALIST VALVE SPECIFICATIONS









SPECIFICATIONS	WS1 WS1CS	WS1EE WS1SP	WS1TC
Service @ 15 psi drop Backwash @ 25 psi drop	27 gpm	27 gpm	27 gpm
	(includes meter and bypass)	(includes meter and bypass)	(includes bypass)
	27 gpm	27 gpm	27 gpm
Tank Applications: Softener Filter (1)	(includes bypass) 6" - 21" diameter 6" - 21" diameter	(includes bypass) 6" - 21" diameter 6" - 21" diameter	(includes bypass) 6" - 21" diameter 6" - 21" diameter
Inlet/Outlet Fitting Connections	1" - 1.25" NPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent 3/4" - 1" SharkBite®	1" - 1.25" NPT 34" - 1.5" Sweat 34" - 1.5" Solvent 34" - 1" SharkBite®	1" - 1.25" NPT 34" - 1.5" Sweat 34" - 1.5" Solvent 34" - 1" SharkBite®
Valve Material	Noryl (2)	Noryl (2)	Noryl (2)
Cycles	Up to 6	Up to 6	Up to 6
Regeneration	Downflow/Upflow	Downflow	Downflow
Operating Pressures Operating Temperatures	20 - 125 psi	20 - 125 psi	20 - 125 psi
	40° - 110° F	40° - 110° F	40° - 110° F
Meter: Flow Rate Range Volume Range (gallons) Totalizer	0.25 - 27 gpm 20 - 50,000 gallons Yes	0.25 - 27 gpm 20 - 1,500,000 gallons Yes	Not Applicable
Distributor Pilot	1.050" O.D. Pipe	1.050" O.D. Pipe	1.050" O.D. Pipe
	¾" NPS	¾" NPS	¾" NPS
Drain Line Connection	34" Male NPT Standard	34" Male NPT Standard	34" Male NPT Standard
	1" Male NPT Optional	1" Male NPT Optional	1" Male NPT Optional
Brine Line Connection	¾" or ½" O.D.	%" or ½" O.D.	¾" or ½" O.D.
	Poly Tube Compression	Poly Tube Compression	Poly Tube Compression
Mounting Base Options	2½" - 8 NPSM	2½" - 8 NPSM	2½" - 8 NPSM
Height From Top of Tank	7¾"	7¾"	73/8"
Shipping Weight	4.5 lbs.	4.5 lbs.	4.5 lbs.
Electrical: Supply Voltage Supply Frequency	120V AC	120V AC or 6AA NMHB	120V AC
	60 Hz	60 Hz	60 Hz
Output Voltage Output Current	12V AC	12V AC	12V AC
	500 mA	500 mA	500 mA

^{1.} Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

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

^{3.} Acquired by use of external drain line flow control

1.25" WATER SPECIALIST VALVE SPECIFICATIONS







WS1.25 WS1.25CS	WS1.25EE WS1.25SP	WS1.25TC
34 gpm	34 gpm	34 gpm
(includes meter and bypass)	(includes meter and bypass)	(includes bypass)
32 gpm (3)	32 gpm (3)	32 gpm (3)
(includes bypass)	(includes bypass)	(includes bypass)
6" - 21" diameter	6" - 21" diameter	6" - 21" diameter
6" - 24" diameter	6" - 24" diameter	6" - 24" diameter
1" - 1.25" NPT 34" - 1.5" Sweat 34" - 1.5" Solvent 34" - 1" SharkBite®	1" - 1.25" NPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent 3/4" - 1" SharkBite®	1" - 1.25" NPT ¾" - 1.5" Sweat ¾" - 1.5" Solvent ¾" - 1" SharkBite®
Noryl (2)	Noryl (2)	Noryl (2)
Up to 6	Up to 6	Up to 6
Downflow	Downflow	Downflow
20 - 125 psi	20 - 125 psi	20 - 125 psi
40° - 110° F	40° - 110° F	40° - 110° F
0.25 - 34 gpm 20 - 50,000 gallons Yes	0.25 - 34 gpm 20 - 1,500,000 gallons Yes	Not Applicable
1.32" O.D. Pipe	1.32" O.D. Pipe	1.32" O.D. Pipe
1" NPS	1" NPS	1" NPS
3/4" Male NPT Standard 1" Male NPT Optional	3/4" Male NPT Standard 1" Male NPT Optional	3/4" Male NPT Standard 1" Male NPT Optional
%" or ½" O.D.	%" or ½" O.D.	3/6" or 1/2" O.D.
Poly Tube Compression	Poly Tube Compression	Poly Tube Compression
2½" - 8 NPSM	2½" - 8 NPSM	2½" - 8 NPSM
7¾"	7%"	7%"
4.5 lbs.	4.5 lbs.	4.5 lbs.
120V AC	120V AC or 6AA NMHB	120V AC
60 Hz	60 Hz	60 Hz
12V AC	12V AC	12V AC
500 mA	500 mA	500 mA

1.5" & 2" WATER SPECIALIST VALVE SPECIFICATIONS







<u>SPECIFICATIONS</u>	WS1.5EE WS1.5SP	WS2EE WS2SP
Service @ 15 psi drop Backwash @ 25 psi drop	70 gpm 52 gpm	115 gpm 80 gpm
Tank Applications: Softener Filter (1)	12" - 30" diameter 12" - 30" diameter	12" - 48" diameter 12" - 36" diameter
Inlet/Outlet Fitting Connections	1.5" Female NPT	2" Female NPT
Valve Material Cycles Regeneration	Lead Free Brass Up to 6 Downflow	Lead Free Brass Up to 6 Downflow
Operating Pressures Operating Temperatures	20 - 125 psi 40° - 110° F	20 - 125 psi 40° - 110° F
Meter: Flow Rate Range Volume Range (gallons) Totalizer	0.5 - 75 gpm 20 - 1,500,000 gallons Yes	1.5 - 150 gpm 20 - 1,500,000 gallons Yes
Distributor Pilot	1.90" O.D. Pipe 1.5" NPS	1.90" O.D. Pipe 1.5" NPS
Drain Line Connection	1.25" Female NPT with 3/4" Male NPT Standard 1" Male NPT Optional	1.5" Female NPT
Brine Line Connection	3/4" Female NPT 1/2" O.D. Poly Tube Compression	1" Male NPT elbow 3/4" x 1" Solvent elbow 1/2" O.D. Poly Tube Compression
Mounting Base Options	4" - 8 UN	4" - 8 UN
Height From Top of Tank	9.5"	7.5"
Shipping Weight with Meter	21 lbs.	29 lbs.
Electrical: Supply Voltage Supply Frequency Output Voltage	120V AC or 6AA NMHB 60 Hz 12V AC	120V AC or 6AA NMHB 60 Hz 12V AC
Output Current	500 mA	500 mA

^{1.} Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

2" & 3" WATER SPECIALIST VALVE SPECIFICATIONS





WS2EE/QC WS2SP/QC	WS2H	WS3
125 gpm 85 gpm	125 gpm (includes meter) 125 gpm	250 gpm 220 gpm
12" - 48" diameter 12" - 36" diameter	18" - 63" diameter 18" - 48" diameter	18" - 96" diameter (2) 18" - 63" diameter
2" Female NPT	2" Female NPT/ 2.5" Groove Lock	3" Female NPT
Lead Free Brass Up to 6 Downflow	Lead Free Brass Up to 9 Downflow	Lead Free Brass Up to 9 Downflow
20 - 125 psi 40° - 110° F	20 - 125 psi 40° - 110° F	20 - 125 psi 40° - 110° F
1.5 - 150 gpm 20 - 1,500,000 gallons Yes	1.5 - 125 gpm 10 - 999,000 gallons Yes	3.5 - 350 gpm 10 - 999,000 gallons Yes
2.375" O.D. Pipe 2" NPS	2.375" O.D. Pipe 2" NPS	3.5" O.D. Pipe 3" NPS
1.5" Female NPT	2" Female NPT/ 2.5" Groove Lock	3" Female NPT
1" Male NPT elbow 34" x 1" Solvent elbow 12" O.D. Poly Tube Compression	1" Male NPT elbow 3/4" x 1" Solvent elbow	1" Male NPT elbow 34" x 1" Solvent elbow
Quick Disconnect 4" - 8 UN 6" Flange Side Mount	Quick Disconnect 4" - 8 UN 6" Flange Side Mount	Quick Disconnect 6" Flange Side Mount
with 4" - 8 UN QC Base is 11.2" with 6" Flange QC Base is 11.3"	with 4" - 8 UN QC Base is 11.5" with 6" Flange QC Base is 11.6"	with 6" Flange QC Base is 12.5"
29 lbs.	50 lbs.	57 lbs. (no meter)
120V AC or 6AA NMHB 60 Hz 12V AC 500 mA	120V AC 60 Hz 24V AC 750 mA	120V AC 60 Hz 24V AC 750 mA

1" & 1.25" Control Valve Fittings and Accessories

























1" & 1.25" Control Valve Fittings and Accessories





















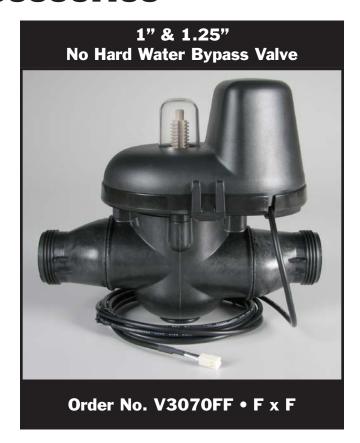


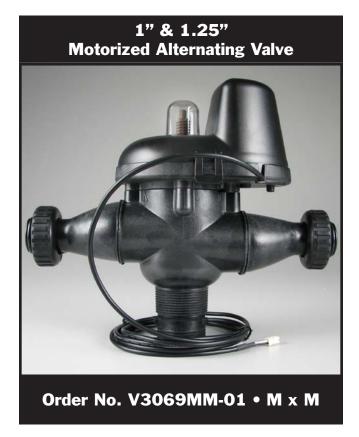


1" & 1.25" Control Valve Fittings and Accessories

1" & 1.25"
Motorized Alternating Valve

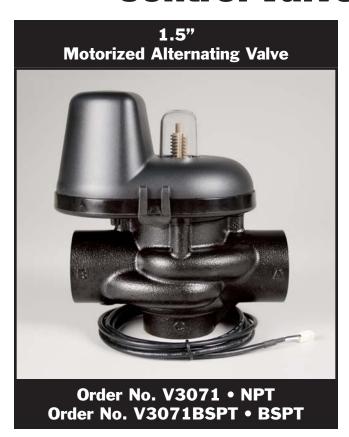
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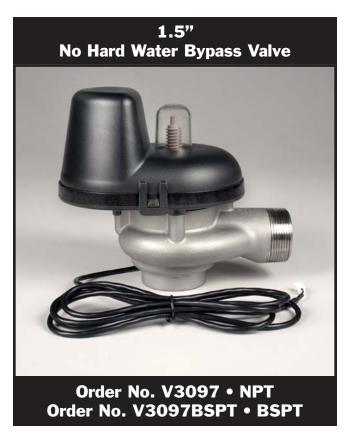






1.5" and 2" Control Valve Accessories

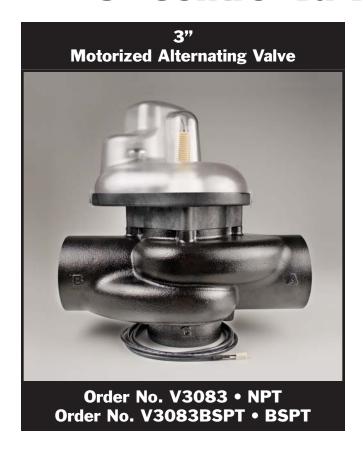


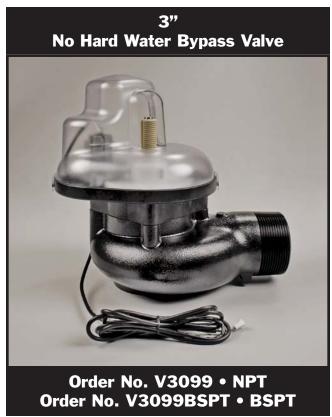






3" Control Valve Accessories





Other Accessories





