

Control Valves, Fittings and Accessories

INTERNATIONAL



WS2CI/QC*
473 lpm
28.4 m³/h
125 gpm



WS2EI/QC*
WS2SP/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
246 lpm
14.7 m³/h
65 gpm



WS1.5EI
WS1.5SP
246 lpm
14.7 m³/h
65 gpm



WS2CI
435 lpm
26.1 m³/h
115 gpm



WS2EI
WS2SP
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*
WS1.25SP*
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*
WS1SP*
102 lpm
6.1 m³/h
27 gpm



WS1TC*
102 lpm
6.1 m³/h
27 gpm

*valves shown with optional accessories

1" WATER SPECIALIST VALVE SPECIFICATIONS

		
SPECIFICATIONS	WS1	WS1CI
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	102 lpm, 6.1 m ³ /h (includes meter and bypass) 102 lpm, 6.1 m ³ /h (includes bypass)	102 lpm, 6.1 m ³ /h (includes meter and bypass) 102 lpm, 6.1 m ³ /h (includes bypass)
Tank Applications: Softener Filter (1)	6" - 21" diameter 6" - 21" diameter	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 Cycles Regeneration	Noryl (2) Up to 6 Downflow/Upflow	Noryl (2) Up to 9 Downflow/Upflow
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 - 102 lpm .07 - 189m ³ Yes	.95 - 102 lpm .10 - 2000.0m ³ 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 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" WATER SPECIALIST VALVE SPECIFICATIONS



**WS1EI
WS1SP**



WS1TC

102 lpm, 6.1 m ³ /h (includes meter and bypass) 102 lpm, 6.1 m ³ /h (includes bypass)	102 lpm, 6.1 m ³ /h (includes meter and bypass) 102 lpm, 6.1 m ³ /h (includes bypass)
6" - 21" diameter 6" - 21" diameter	6" - 21" diameter 6" - 21" 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 - 102 lpm .02 - 5700m ³ 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. 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 or 6AA NMHB 50 Hz 12V AC 500 mA	230V AC 50 Hz 12V AC 500 mA

Valves shown with optional bypass.

1.25" WATER SPECIALIST VALVE SPECIFICATIONS

INTERNATIONAL

Clack®



SPECIFICATIONS

WS1.25

WS1.25CI

Service @ 1 bar/15 psi drop	129 lpm, 7.7 m ³ /h (includes meter and bypass)	129 lpm, 7.7 m ³ /h (includes meter and bypass)
Backwash @ 1.7 bar/25 psi drop	121 lpm, 7.3 m ³ /h (includes bypass)	121 lpm, 7.3 m ³ /h (includes bypass)
Tank Applications:		
Softener	6" - 21" diameter	6" - 21" diameter
Filter (1)	6" - 24" diameter	6" - 24" diameter
Inlet/Outlet	3/4" - 1.25" Male BSPT	3/4" - 1.25" Male BSPT
Fitting Connections	3/4" - 1.5" Sweat 3/4" - 1.5" Solvent	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	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	.95 - 129 lpm	.95 - 129 lpm
Volume Range (cubic meters)	.500 - 250.0m ³	.10 - 2000.0m ³
Totalizer	Yes	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	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

1.25" WATER SPECIALIST VALVE SPECIFICATIONS



**WS1.25EI
WS1.25SP**



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 .02 - 5700m 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 or 6AA NMHB 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

<div data-bbox="56 178 479 262" data-label="Text"> INTERNATIONAL </div> <div data-bbox="56 283 479 409" data-label="Image"> </div>		
SPECIFICATIONS	WS1.5CI	WS1.5EI WS1SP
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	246 lpm, 14.7 m ³ /h 208 lpm, 12.4 m ³ /h	246 lpm, 14.7 m ³ /h 208 lpm, 12.4 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 or 6AA NMHB 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 WS2SP	WS2EI/QC WS2SP/QC
435 lpm, 26.1 m ³ /h 303 lpm, 18.2 m ³ /h	473 lpm, 28.4 m ³ /h 322 lpm, 19.3 m ³ /h	435 lpm, 26.1 m ³ /h 303 lpm, 18.2 m ³ /h	473 lpm, 28.4 m ³ /h 322 lpm, 19.3 m ³ /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 ³ Yes	5.7 - 568 lpm 0.02 - 5700 m ³ Yes	5.7 - 568 lpm 0.02 - 5700 m ³ Yes	5.7 - 568 lpm 0.02 - 5700 m ³ 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	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

Valves shown with optional accessories.

2" & 3" WATER SPECIALIST VALVE SPECIFICATIONS

		
SPECIFICATIONS	WS2H	WS3
Service @ 1 bar/15 psi drop Backwash @ 1.7 bar/25 psi drop	473 lpm, 28.4 m ³ /h (includes meter) 473 lpm, 28.4 m ³ /h	496 lpm, 56.8 m ³ /h 833 lpm, 50.0 m ³ /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 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	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 Output Current	230V AC 50 Hz 24V AC 750 mA	230V AC 50 Hz 24V AC 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" PVC Male NPT Elbow Assembly



Order No. V3007

3/4" x 1" PVC Solvent Elbow Assembly



Order No. V3007-01

1" Brass Sweat Assembly LF



Order No. V3007-02LF

3/4" Brass Sweat Assembly LF



Order No. V3007-03LF

1" Plastic Male NPT Assembly



Order No. V3007-04

1.25" Plastic Male NPT Assembly



Order No. V3007-05

1" Plastic Male BSPT Assembly



Order No. V3007-06

1.25" & 1.5" PVC Solvent Assembly



Order No. V3007-07

1.25" Plastic Male BSPT Assembly



Order No. V3007-08

1.25" & 1.5" Brass Sweat Assembly LF



Order No. V3007-09LF

3/4" SharkBite® Assembly



Order No. V3007-12

1" SharkBite® Assembly



Order No. V3007-13

1" & 1.25" Control Valve Fittings and Accessories

3/4" Plastic Male BSPT Assembly



Order No. V3007-14

3/4" John Guest QC Elbow Assembly



Order No. V3007-15

1" PVC Male BSPT Elbow Assembly



Order No. V3007-16

Bypass



Order No. V3006

1" Straight DLFC w/Silencer



Order No. V3008-02

1" Straight DLFC without Silencer



Order No. V3008-04

Vertical 90° Adapter Kit



Order No. V3191-01

Auxiliary Microswitch Kit



Order No. V3009

WS1 Series Microswitch Assembly



Order No. V3014

WS2 Auxiliary Switch Kit



Order No. V3017

Weather Covers



Order No. V3175WC-W • White
Order No. V3175WC-A • Almond

Wrench



Order No. V3193-02

1" & 1.25" Control Valve Fittings and Accessories

1" & 1.25"
Motorized Alternating Valve



Order No. V3069FF • F x F

1" & 1.25"
No Hard Water Bypass Valve



Order No. V3070FF • 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. V3070FM • F x M

1.5" and 2"

Control Valve Accessories

1.5"
Motorized Alternating Valve



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

1.5"
No Hard Water Bypass Valve



Order No. V3097 • NPT
Order No. V3097BSPT • BSPT

2.0"
Motorized Alternating Valve



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

2.0"
No Hard Water Bypass Valve



Order No. V3098 • NPT
Order No. V3098BSPT • BSPT

3" Control Valve Accessories

3"
Motorized Alternating Valve



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

3"
No Hard Water Bypass Valve



Order No. V3099 • NPT
Order No. V3099BSPT • BSPT

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