

1" WATER SPECIALIST VALVE SPECIFICATIONS

INTERNATIONAL

Clack Corporation



SPECIFICATIONS

WS1

WS1CI

Service Flow @ 15 psi drop
Backwash @ 25 psi drop

**102 lpm
102 lpm**

**102 lpm
102 lpm**

Tank Applications:
Softener
Filter (1)

**6" – 21" diameter
6" – 21" diameter**

**6" – 21" diameter
6" – 21" diameter**

Inlet/Outlet
Fitting Connections

**1" – 1.25" BSPT
3/4" – 1.5" Sweat
3/4" – 1.5" Solvent**

**1" – 1.25" 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

**0.95 – 102 lpm
.07 – 189m³
Yes**

**1 – 102 lpm
.10 – 2000.0m³
Yes**

Distributor Pilot

1.050 O.D. Pipe

1.050 O.D. Pipe

Drain Line

**3/4" Standard
1" Optional**

**3/4" Standard
1" Optional**

Brine Line

**3/8" or 1/2" O.D.
Poly Tube**

**3/8" or 1/2" O.D.
Poly Tube**

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 @ 10 gpm of backwash per square foot of bed area
2. Noryl is a trademark of General Electric

1" WATER SPECIALIST VALVE SPECIFICATIONS



WS1EI



WS1TC

102 lpm 102 lpm	102 lpm 102 lpm
6" – 21" diameter 6" – 21" diameter	6" – 21" diameter 6" – 21" diameter
1" – 1.25" BSPT 3/4" – 1.5" Sweat 3/4" – 1.5" Solvent	1" – 1.25" 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
0.95 – 102 lpm .07 – 189m ³ Yes	Not Applicable
1.050 O.D. Pipe	1.050 O.D. Pipe
3/4" Standard 1" Optional	3/4" Standard 1" Optional
3/8" or 1/2" O.D. Poly Tube	3/8" or 1/2" O.D. Poly Tube
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.

1.25" WATER SPECIALIST VALVE SPECIFICATIONS

INTERNATIONAL

Clack Corporation



SPECIFICATIONS

WS1.25

WS1.25CI

Service Flow @ 15 psi drop
Backwash @ 25 psi drop

129 lpm
121 lpm

129 lpm
121 lpm

Tank Applications:
Softener
Filter (1)

6" – 21" diameter
6" – 24" diameter

6" – 21" diameter
6" – 24" diameter

Inlet/Outlet
Fitting Connections

1" – 1.25" BSPT
3/4" – 1.5" Sweat
3/4" – 1.5" Solvent

1" – 1.25" 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 – 250.0m³
Yes

1 – 129 lpm
.10 – 2000.0m³
Yes

Distributor Pilot

32mm O.D. Pipe

32mm O.D. Pipe

Drain Line

3/4" Standard
1" Optional

3/4" Standard
1" Optional

Brine Line

3/8" or 1/2" O.D.
Poly Tube

3/8" or 1/2" O.D.
Poly Tube

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 @ 10 gpm of backwash per square foot of bed area
2. Noryl is a trademark of General Electric

1.25" WATER SPECIALIST VALVE SPECIFICATIONS



WS1.25EI

WS1.25TC

129 lpm 121 lpm	129 lpm 121 lpm
6" – 21" diameter 6" – 24" diameter	6" – 21" diameter 6" – 24" diameter
1" – 1.25" BSPT 3/4" – 1.5" Sweat 3/4" – 1.5" Solvent	1" – 1.25" 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" Standard 1" Optional	3/4" Standard 1" Optional
3/8" or 1/2" O.D. Poly Tube	3/8" or 1/2" O.D. Poly Tube
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

INTERNATIONAL

Clack Corporation



SPECIFICATIONS

WS1.5CI

WS1.5EI

Service Flow @ 15 psi drop
Backwash @ 25 psi drop

227 lpm
189 lpm

227 lpm
189 lpm

Tank Applications:
Softener
Filter (1)

12" – 24" diameter
12" – 30" diameter

12" – 24" diameter
12" – 30" diameter

Inlet/Outlet
Fitting Connections

1.5" BSPT

1.5" BSPT

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 (cubic meters)
Totalizer

2 – 227 lpm
0.02 – 2000.0m³
Yes

2 – 227 lpm
1.000 – 500.0m³
Yes

Distributor Pilot

50mm O.D. Pipe

50mm O.D. Pipe

Drain Line

1.25" FPT with
3/4" Standard
1" Optional

1.25" FPT with
3/4" Standard
1" Optional

Brine Line

1/2" or 5/8" O.D.
Poly Tube

1/2" or 5/8" O.D.
Poly Tube

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 @ 10 gpm of backwash per square foot of bed area
2. Noryl is a trademark of General Electric

2" WATER SPECIALIST VALVE SPECIFICATIONS



WS2EI



WS2H

435 lpm
303 lpm

18" – 48" diameter
18" – 36" diameter

2" BSPT

Lead Free Brass
Up to 6
Downflow

1.4 – 8.6 bar
4° – 43° C

5.7 – 435 lpm
0.001 – 4,294,000 m³
Yes

50mm O.D. Pipe

1.5" FPT
3/4" or
1" Optional Accessory

1/2" or 5/8" O.D.
Poly Tube or 1" MPT • 1" or 3/4" Solvent

4" – 8 UN

216mm

14 Kg

230V AC
50 Hz
12V AC
500 mA

473 lpm
473 lpm

18" – 48" diameter
18" – 48" diameter

2" BSPT
2.5" groove lock

Lead Free Brass
Up to 9
Downflow

1.4 – 8.6 bar
4° – 43° C

5.7 – 473 lpm
38 – 3796.2 liters x 1000
Yes

63mm O.D. Pipe

2" FPT
2.5" groove lock

1" MPT
1" or 3/4" Solvent

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

279mm

22.7 Kg

230V AC
50 Hz
24V AC
750 mA

1" & 1.25" Control Valve Fittings and Accessories



1" & 1.25" Control Valve Fittings and Accessories

3/4" SharkBite® Assembly



Order No. V3007-12

1" SharkBite® Assembly



Order No. V3007-13

3/4" Plastic Male BSPT Assembly



Order No. V3007-14

Bypass



Order No. V3006

1" Straight DLFC w/Silencer



Order No. V3008-02

1" M x M Straight DLFC



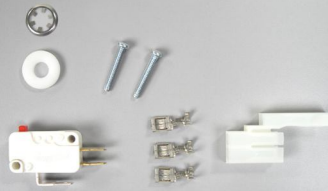
Order No. V3008-03

1" Straight DLFC without Silencer



Order No. V3008-04

Auxiliary Microswitch Kit



Order No. V3009

WS1 Series Microswitch Assembly



Order No. V3014

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
Order No. V3069MM • M x M

1" & 1.25"
No Hard Water Bypass Valve



Order No. V3070FF • F x F
Order No. V3070FM • F x M

1.5"
Motorized Alternating Valve



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

2.0"
Motorized Alternating Valve



Order No. V3063 • NPT
Order No. V3063BSPT • BSPT

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