

Clack WS1 Water Softener

The valve at the heart of our water softeners

The control valve is the brain of a water softener - it decides when to regenerate, how much water and salt to use, and how reliably the system runs for years. That is why our softeners are built on the Clack WS series. The WS1 is a proven, standard valve: parts are widely available, any qualified technician can service it, and you are never locked into proprietary parts or a single dealer.

What it does for your home

- **Regenerates on use, not just on a timer.** A built-in meter tracks the water your household actually uses, so the system cleans itself when it needs to - saving salt and water.
- **Settings survive a power outage.** Operating data is held in non-volatile memory, with a lithium battery back-up that carries the clock for up to eight hours.
- **A deeper clean when it counts.** An optional second backwash improves cleaning and regeneration efficiency on tougher water.
- **Flexible programming.** Up to six cycles, dozens of pre-programmed regeneration combinations, a 1-to-28-day override, and downflow or upflow regeneration.
- **Easy to live with.** Front-panel settings on a solid-state microprocessor, a safe low-voltage (15 V DC) power supply, and refill with pre- or post-treated water.
- **Built to last.** A fibre-reinforced composite body, a one-piece seal and spacer stack, and a linearly reciprocating piston driven by a proven DC drive.



Clack WS1 Water Specialist control valve

Service flow (15 psi drop)	27 gpm
Backwash flow (25 psi drop)	27 gpm
Softener tanks	6 in - 21 in dia.
Operating pressure	20 - 125 psi
Weight	4.5 lb

From 360WATER: Water softeners sized to your home and your water - well water and town water are sized differently. **12 months interest-free financing** is arranged in-house, with no third-party finance company. Every recommendation starts with a free water test.

Warranty: Your softener is covered for ten (10) years from the date of installation - control valve and components, media tank and brine tank. Consumables such as media, injectors, screens, seal packs and softener salt are not covered, and labour and service call charges are not included. Your full warranty letter, with all terms, comes with your installation.

Specifications - Clack WS1

Certified to NSF/ANSI 44, NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372. IP54 rated (IP55 with optional weather cover). Designed, assembled, and air- and water-tested in Wisconsin, USA. Works with sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines. Tank applications: softener and filter, 6 in - 21 in diameter.

General	
Inlet / outlet fittings	1 in - 1.25 in NPT; 3/4 in - 1.5 in sweat; 3/4 in - 1.5 in solvent; 3/4 in - 1 in SharkBite; 3/4 in - 1 in John Guest
Cycles	Up to 6
Valve material	Fibre-reinforced composite
Regeneration	Downflow (downflow / upflow capable)
Operating pressure	20 - 125 psi
Operating temperature	40 - 110 degrees F
Options	Backwash filter, bypass, weather cover

Flow rates	
Service at 15 psi drop	27 gpm (incl. meter, bypass, 1.25 in fitting kit)
Backwash at 25 psi drop	27 gpm (incl. bypass)
Cv - service / backwash	7.0 / 5.4

Meter	
Accuracy	+/- 5%
Flow rate range	0.25 - 27 gpm
Gallon range	20 - 50,000 gallons
Totalizer	1,000 - 9,999,000 gallons

Dimensions and weight	
Distributor pilot	1.050 in OD pipe (3/4 in NPS)
Drain line	3/4 in or 1 in NPT
Brine line	3/8 in or 1/2 in OD poly tube
Mounting base	2-1/2 in - 8 NPSM
Height from top of tank	7-3/8 in
Weight	4.5 lb

Electrical (US supply)	
Supply voltage / frequency	100 - 120 VAC, 50/60 Hz
Output	15 VDC, 500 mA
International supply	200 - 240 VAC, 50/60 Hz; 15 VDC, 500 mA out

Cycle of operation	Minutes
Backwash - 1st (upflow)	6 - 12
Regenerant draw / slow rinse (downflow)	45 - 75
Backwash - 2nd (upflow)	3 - 12
Fast rinse (downflow)	3 - 8
Regenerant refill	As programmed - in service, with treated water

Not sure which size you need? Bring a water sample by the showroom - testing is free - and we will recommend the right system for your water and your household. No obligation, and no pressure if the numbers say you do not need one yet.

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Specifications summarized from Clack Corporation: <https://www.clackcorp.com/control-valves/ws1/> - Clack and WS1 are trademarks of Clack Corporation. SharkBite and John Guest are trademarks of their respective owners. Specifications may change without notice; confirm sizing at time of quote.