5812 CONTROL VALVE

DWC
DUFF WATER CONDITIONING
Products for Quality Water

MADE IN THE USA
OF FOREIGN & DOMESTIC PARTS

FEATURES • BENEFITS

- Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant

- Continuous service flow rate of 43 GPM with a backwash of 33 GPM

- Backwash capability accommodates softener tanks and filters up to 24" in diameter

- Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system

- Time-tested, hydraulically-balanced piston for service and regeneration

- Optical sensor for precision cycle positioning

- Soft water refill for a cleaner brine tank

- Designed with double backwash for reduced hardness leakage

- Diagnostics for historical valve performance

- Programming stored in memory and will not be lost due to power outages

WaterQuality	TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 44 for Water Softener Performance.
WaterQuality	TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 372 for Lead Free Compliance.
UL	UL recognized to the 979
CE	TESTED EMC and Low Voltage Directive
RoHS	Restriction of Hazardous Substance Compliant

CONFIGURATIONS • OPTIONS

- Filter or softener control valves

- Downflow co-current or upflow counter-current regeneration

- Plumbing connections in 3/4", 1", 1-1/4", or 1-1/2" NPT, BSP, Sweat, and CPVC

- Fiber-reinforced polymer high-flow bypass valve

- Variable reserve for increased efficiency

- Programmable regeneration types for increased flexibility

- Three color bezel options of black, blue, or silver

TIMER OPTIONS

- **XTR2** - Premium touch screen LCD display with two programmable relay outputs for both normally opened and normally closed contacts

- **SXT**- Large LCD display with one programmable relay output for both normally open and normally closed contacts

VALVE SPECIFICATIONS

Valve Material	Fiber-reinforced polymer
Inlet/Outlet	3/4", 1", 1-1/4", NPT, BSP, Sweat, CPVC
Cycles	5

FLOW RATES (50 PSI INLET) – VALVE ALONE - 2.5" BASE

Piston	Downflow	Upflow	Filter
Continuous (15 psi drop)	43 GPM 9.9 m³/hr	39 GPM 8.9 m³/hr	37 GPM 8.4 m³/hr
Peak (25 psi drop)	56 GPM 12.7 m³/hr	51 GPM 11.9 m³/hr	47 GPM 10.7 m³/hr
Cv (flow at 1 psi drop)	11.2	10.1	9.4
Max. Backwash (25 psi drop)	33 GPM 7.5 m³/hr	36 GPM 8.1 m³/hr	45 GPM 9.9 m³/hr

FLOW RATES (50 PSI INLET) – VALVE ALONE - 4" BASE

Piston	Downflow	Upflow	Filter
Continuous (15 psi drop)	45 GPM 10.3 m³/hr	40 GPM 9.1 m³/hr	38 GPM 8.7 m³/hr
Peak (25 psi drop)	59 GPM 13.3 m³/hr	52 GPM 11.7 m³/hr	50 GPM 11.3 m³/hr
Cv (flow at 1 psi drop)	11.7	10.3	9.9
Max. Backwash (25 psi drop)	34 GPM 7.8 m³/hr	36 GPM 8.2 m³/hr	45 GPM 10.2 m³/hr

REGENERATION

Downflow/Upflow	Both
Adjustable Cycles	Yes
Timers Available	
SXT:	0 - 199 min/cycle
XTR2:	0 - 240 min/cycle

METER INFORMATION

Meter Accuracy	
1-1/4" Turbine:	2 - 40 GPM ± 5% (0.45 - 9 m³/h)
Meter Capacity Range	
SXT:	1 - 999,900 gal (0 - 3,785 m³)
XTR2:	1 - 9,999,999 gal (0 - 378,541 m³)

DIMENSIONS

Distributor Pilot	1.05" O.D. (26.7 mm) 32 mm O.D. 1.315" O.D. (33.4 mm) 1.9" O.D. (48.3 mm)
Drain Line	1.5" NPT Quick-Connect
Brine Valve	
1600:	3/8" or 1/2"
Injector System	1610
Mounting Base	2.5" – 8 NPSM 4" – NPSM
Height from Top of Tank	12" (305 mm)
Riser Height	1/4" Below top of tank

TYPICAL APPLICATIONS

Water Softener	8 - 24" Diameter
Filters	8 - 24" Diameter based on 10 GPM/ft²

ADDITIONAL INFORMATION

Electrical Rating	12 Volts DC
Estimated Shipping Weight	12 lbs (5.44 kg)
Pressure	
Hydrostatic:	300 psi (20 bar)
Working:	20 - 125 psi (1.4 - 8.5 bar)
Temperature	
Cold Water Valve:	34 - 110°F (1 - 43°C)