

F E C 2850

COMMERCIAL CONTROL VALVES

IDEAL FOR SMALL COMMERCIAL AND INDUSTRIAL APPLICATIONS

MADE IN THE
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OF FOREIGN & DOMESTIC PARTS

FEA E /BE EFI

Lead-free brass valve body for superior strength and durability

Continuous service flow rate of 46 GPM with a backwash of 47 GPM

Backwash capability accommodates softener tanks up to 36" and filters up to 24" in diameter

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

Designed for single or multiple tank systems

Environmental protective cover for water resistance, corrosion resistance, and UV stability

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

Rugged-built electromechanical timer designed with heavy duty 3/8" wide plastic gears

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Filter or softener control valves

No hard water bypass piston

Brine cam auxiliary switch

Electromechanical timer auxiliary switch

Hot water

Versatile top or side mount

Manual lever operations

- Network controller uses on-board communication capabilities to link multiple valves (via off-the-shelf CAT3, CAT5, or better cables) for system types 4, 5, 6, 7, 9, and 14
- Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems

- Offers a two-line, 16 character LCD backlit display for easy entering of master and user programming as well as view of diagnostics

E **r** - Simple to adjust and easy to service with quick access to all internal components



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 61 Section 8 Material Safety Only.



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 372 for Lead Free Compliance.



Restriction of Hazardous Substance Compliant

ADDITIONAL SPECIFICATIONS

Valve Material	Lead-free brass*
Inlet/Outlet	1-1/2" NPTF/BSPF
Cycles	3 or 5

FLOW RATES (50 PSI DROP) AT 60 GPM

Continuous 15 psi drop	46 GPM (10.4 m³/h)
Peak 25 psi drop	60 GPM (13.6 m³/h)
Cv flow at 1 psi drop	12
Max. Backwash 25 psi drop	47 GPM (10.7 m³/h)

DOWNFLOW ONLY

Downflow/Upflow	Downflow only
Adjustable Cycles	Yes
Time Available	
Electromechanical:	0 - 164 min/regeneration
SXT:	0 - 199 min/cycle
NXT:	0 - 240 min/cycle
XT:	0 - 240 min/cycle

FLOW RATES AT 15 PSI DROP

Meter Accuracy	
1" Paddle:	0.7 - 40 GPM ± 5% (0.16 - 9 m³/h)
1-1/2" Paddle:	1.5 - 75 GPM ± 5% (0.34 - 17 m³/h)
1-1/2" Turbine:	2 - 40 GPM +5/-8% (0.45 - 9 m³/h)
Meter Capacity Range	
1" Standard:	310 - 5,270 gal (1.2 - 20 m³)
1" Extended:	1,550 - 26,350 gal (6 - 100 m³)
1-1/2" Standard:	625 - 10,625 gal (2.5 - 40 m³)
1-1/2" Extended:	3,125 - 53,125 gal (12 - 200 m³)
SXT:	1 - 999,900 gal (0 - 3,785 m³)
NXT:	1 - 9,900,000 gal (0 - 37,476 m³)
XT:	1,000 - 9,900,000 gal (3.8 - 37,476 m³)

DIAPHRAGM

Distributor Pilot	1.9" O.D. (50 mm)
Drain Line	1" NPTM
Brine Valve	
1600 or 1650:	3/8"
1700 or 1710:	1/2"
Injector System	1600 or 1700
Mounting Base	4" - 8 UN
Height from Top of Tank	6.5" (165 mm)
Riser Tube Diameter	1-1/2" (38 mm)
Riser Height	1/4" Below top of tank

ICAP AND ICAP

Water Softener	14 - 36" diameter
Filters	14 - 30" diameter based on 10 GPM/ft²

ADDITIONAL INFORMATION

Electrical Rating	24/110/220V 50/60 Hz
Estimated Shipping Weight	
Time Clock:	7 lbs
Metered Valve:	10 lbs
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)
Hot Water Valve:	34 - 180°F (1 - 82°C)
Filter, Time Clock, 1600 Brine System	
Hot Water Valve:	34 - 150°F (1 - 66°C)
Meter, 1700 Brine System	

*As defined in the U.S. EPA Safe Drinking Water Act; the product also meets California Proposition 65 Standards for lead-free brass.



CONTACT INFORMATION

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