FLECK® 2850
COMMERCIAL CONTROL VALVES

IDEAL FOR SMALL COMMERCIAL AND INDUSTRIAL APPLICATIONS

MADE IN THE USA OF FOREIGN & DOMESTIC PARTS





FEATURES/BENEFITS

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

OPTIONS

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

NXT- 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

SXT- Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems

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

Electromechanical Timer- 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.

UL recognized to 979

Restriction of Hazardous Substance Compliant

VALVE SPECIFICATIONS

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

FLOW RATES (50 PSI INLET) – VALVE ALONE

Continuous 15 psi drop	46 GPM (10.4 m^3/h)
Peak 25 psi drop	60 GPM (13.6 m^3/h)
Cv flow at 1 psi drop	12
Max. Backwash 25 psi drop	47 GPM (10.7 m^3/h)

REGENERATION

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

METER INFORMATION

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

DIMENSIONS

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

TYPICAL APPLICATIONS

Water Softener	14 - 36" diameter
Filters	14 - 30" diameter based on 10 GPM/ft^2

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: Filter, Time Clock, 1600 Brine System	34 - 180°F (1 - 82°C)
Hot Water Valve: Meter, 1700 Brine System	34 - 150°F (1 - 66°C)

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

PENTAIR

pHorko
industrial water purification systems