

CONTROL VALVES



TECH-EE SERIES CONTROL VALVES COMMERCIAL APPLICATIONS WITH 1.5 INCH INTERNAL PORTING



OPTIONAL 1.5 INCH METER

- Service flow rate 70 gpm, backwash flow rate 52 gpm
- Epoxy coated lead-free brass valve body
- Economical stainless steel optional meter assembly
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate, and total volume used (totalizer)
- Four methods to initiate regeneration: meter immediate, meter delayed, time clock delayed, or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability, and efficiency
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow or upflow brining, slow rinse, second backwash, fast rinse, refill, and downflow service
- Coin cell lithium battery backup with an eight hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
- Patented linearly reciprocating piston operation U.S. Patent 6,444,127
- Reliable and proven DC drives
- Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine, and chloramines
- Certified to NSF/ANSI 61 and 372

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SPECIFICATIONS

Inlet/Outlet	1-1/2 inch FNPT
Cycles	Up to 6
Valve Material	Epoxy coated brass
Regeneration	Downflow

FLOW RATES

Service @15 psi drop (includes meter)	70 gpm
Backwash @ 25 psi drop	52 gpm
Cv Service	18.1
Cv Backwash	10.4

OPERATING PRESSURES

Minimum/Maximum	20 to 125 psi
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OPERATING TEMPERATURES

Minimum/Maximum	40 to 110° F
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METER

Accuracy	± 5%
Flow Rate Range	0.5 to 75 gpm
Gallon Range	20 to 1,500,000 gallons
Totalizer	1,000 to 9,999,000 gallons

DIMENSIONS & WEIGHT

Distributor Pilot	1.90 inch OD (1-1/2 inch NPS)
Drain Line ¹	1-1/4 inch FNPT
Brine Line ²	3/4 inch FNPT
Mounting Base	4"-8 UN
Height from Top of Tank	7-1/2 inch
Shipping Weight with Meter	21 lb

ELECTRICAL SPECIFICATIONS (Power Supply)

	USA	International
Supply Voltage	100 VAC to 120 VAC	200 VAC to 240 VAC
Supply Frequency	50/60 Hz	50/60 Hz
Output Voltage	15 VDC	15 VDC
Output Current	500 mA	500 mA

TANK APPLICATIONS

Water Softener	12 to 30 inch diameter
Water Filter ³	12 to 30 inch diameter

CYCLES OF OPERATION

Cycle	Softener	Filter
1. Backwash 1st (upflow)	1 to 95 minutes	1 to 95 minutes
2. Regenerate Draw/Slow Rinse (downflow)	1 to 180 minutes	
3. Backwash 2nd (upflow)	1 to 95 minutes	
4. Fast Rinse (downflow)	1 to 95 minutes	1 to 95 minutes
5. Regenerant Refill (in service with treated water)	0.1 to 99.0 or off	
6. Service (downflow)		

OPTIONS

1-1/2 inch Stainless Steel Meter Assembly, Backwash Filter, Weather Cover

1. 3/4 inch MNPT elbow adapter is included.

2. 1/2 inch OD poly tube compression adapter is included.

3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area.