FLECK® 9100 VALVE
LIGHT COMMERCIAL/RESIDENTIAL TWIN TANK VALVE

FEATURES/BENEFITS

Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant
Continuous service flow rate of 20.1 GPM with a backwash of 8.5 GPM
Backwash capability accommodates softener tanks up to 16”
Fully adjustable 5-cycle control for efficient and reliable water treatment system
Time-tested, hydraulically-balanced piston for service and regeneration
Rugged-built electromechanical timer designed with heavy duty 3/8” wide plastic gears
Salt and water savings by using 100% capacity of the tank in service before switching to the second tank
Regenerates immediately when needed for continuous soft water
Regenerates with soft water keeping system clean for optimum operating efficiency and minimum maintenance

OPTIONS

Brine cam auxiliary switch
Electromechanical timer auxiliary switch
Plumbing connections in 3/4” to 1-1/4” NPT, BSP, and sweat
Fiber-reinforced polymer or stainless steel bypass valve
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 programming 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 44 for Water Softener Performance.
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

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<th>Feature</th>
<th>Specification</th>
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<tr>
<td>Valve Material</td>
<td>Fiber-reinforced polymer</td>
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<td>Inlet/Outlet</td>
<td>3/4”, 1”, or 1-1/4” NPT/BSP/Sweat</td>
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<td>Cycles</td>
<td>5</td>
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## FLOW RATES (50 PSI INLET) – VALVE ALONE

### Continuous
- **15 psi drop**
  - 3/4” Meter: 18 GPM (4.1 m³/h)
  - 1” Meter: 20 GPM (4.5 m³/h)

### Peak
- **25 psi drop**
  - 3/4” Meter: 24 GPM (5.5 m³/h)
  - 1” Meter: 26 GPM (5.9 m³/h)

### Cv
- Flow at 1 psi drop
  - 3/4” Meter: 4.7
  - 1” Meter: 5.5

### Max. Backwash
- **25 psi drop**
  - 3/4” Meter: 9 GPM (2 m³/h)
  - 1” Meter: 9 GPM (2 m³/h)

## REGENERATION

- **Downflow/Upflow**: Downflow only
- **Adjustable Cycles**: Yes

### Time Available
- Electromechanical: 0 - 164 min/regeneration
- SXT: 0 - 199 min/cycle
- XT: 0 - 240 min/cycle

## METER INFORMATION

### Meter Accuracy
- **3/4” Paddle**: 0.25 - 15 GPM ± 5% (0.06 - 3 m³/h)
- **1” Paddle**: 0.7 - 40 GPM ± 5% (0.16 - 9 m³/h)

### Meter Capacity Range
- **3/4” Standard**: 125 - 2,125 gal (0.5 - 8 m³)
- **3/4” Extended**: 625 - 10,625 gal (2.5 - 40 m³)
- **1” Standard**: 310 - 5,270 gal (1.2 - 20 m³)
- **1” Extended**: 1,550 - 26,350 gal (6 - 100 m³)
- **SXT**: 1 - 999,900 gal (0 - 3,785 m³)
- **XT**: 1,000 - 9,900,000 gal (3.8 - 37,476 m³)

### DIMENSIONS

- **Distributor Pilot**: 1.05” O.D. (32 mm)
- **Drain Line**: 1/2” NPTF
- **Brine Valve 1600**: 3/8”
- **Injector System 1600**:
- **Mounting Base**: 2.5” – 8 NPSM
- **Height from Top of Tank**: 7.3” (185 mm)
- **Riser Tube Diameter**: 3/4” (19 mm)
- **Riser Height**: 1/4” Below top of tank

### TYPICAL APPLICATIONS

- **Water Softener**: 6 - 16” diameter

### ADDITIONAL INFORMATION

- **Electrical Rating**: 24/110/220V 50/60 Hz
- **Max VA**: 8.9
- **Estimated Shipping Weight**
  - Mechanical Valve: 14-1/2 lbs
  - SXT and XT Valve: 12 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)