FLECK 7000 SERIES
HIGH FLOW RATE CONTROL VALVE

INNOVATIVE SOLUTION FOR LARGER TANK SIZE AND HIGH FLOW RATE

FEATURES/BENEFITS

- Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant
- Continuous service flow rate of 28 GPM with a backwash of 7 GPM
- Backwash capability accommodates softener tanks up to 24” and filter up to 24” in diameter
- Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system
- Super capacitor for keeping time of day during power outage
- Environmental protective cover for water resistance, corrosion resistance, and UV stability

Options

- Filter or softener control valves
- Brine cam auxiliary switch
- Plumbing connections in 3/4” to 1-1/2” NPT, BSP, and sweat
- Fiber-reinforced polymer high flow bypass valve
- Variable reserve for increased efficiency
- Programmable regeneration types for increased flexibility
- Manual lever operations
- 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 reduce hardness leakage
- Diagnostics for historical valve performance
- Programming stored in memory and will not be lost due to power outages

OPTIONS

- **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, and 9
- **XTR**: Offers a two-line, 16 character LCD backlit display for easy entering of master and user programming as well as view of diagnostics
- **SXT**: Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems

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**

- **Valve Material**: Fiber-reinforced polymer
- **Inlet/Outlet**: 3/4”, 1”, 1-1/4”, or 1-1/2” NPT/BSP/Sweat
- **Cycles**: Up to 6

**FLOW RATES (50 PSI INLET) – VALVE ALONE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Flow Rate</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Continuous</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 psi drop</td>
<td>Standard Piston: 28 GPM</td>
<td>6.4 m³/h</td>
</tr>
<tr>
<td></td>
<td>High Flow Piston: 36 GPM</td>
<td>8.2 m³/h</td>
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<tr>
<td></td>
<td>Filter Piston: 37 GPM</td>
<td>8.4 m³/h</td>
</tr>
<tr>
<td><strong>Peak</strong></td>
<td>Standard Piston: 36 GPM</td>
<td>8.2 m³/h</td>
</tr>
<tr>
<td>25 psi drop</td>
<td>High Flow Piston: 46 GPM</td>
<td>10.4 m³/h</td>
</tr>
<tr>
<td></td>
<td>Filter Piston: 47 GPM</td>
<td>10.7 m³/h</td>
</tr>
<tr>
<td><strong>Cv</strong></td>
<td>Standard Piston: 7.1</td>
<td></td>
</tr>
<tr>
<td>flow at 1 psi drop</td>
<td>High Flow Piston: 9.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Filter Piston: 9.5</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Backwash</strong></td>
<td>Standard Piston: 7 GPM</td>
<td>1.6 m³/h</td>
</tr>
<tr>
<td>25 psi drop</td>
<td>High Flow Piston: 16 GPM</td>
<td>3.6 m³/h</td>
</tr>
<tr>
<td></td>
<td>Filter Piston: 31 GPM</td>
<td>7 m³/h</td>
</tr>
</tbody>
</table>

**REGENERATION**

- **Downflow/Upflow**: Downflow only
- **Adjustable Cycles**: Yes
- **Time Available**
  - **SXT**: 0 - 199 min/cycle
  - **NXT**: 0 - 240 min/cycle
  - **XTR**: 0 - 240 min/cycle

**METER INFORMATION**

- **Meter Accuracy**
  - 1-1/4” Turbine: 2 - 40 GPM +5/-8% (0.45 - 9 m³/h)
- **Meter Capacity Range**
  - **SXT**: 1 - 999,900 gal [0 - 3,785 m³]
  - **NXT**: 1 - 9,900,000 gal [0 - 37,476 m³]
  - **XTR**: 1 - 9,900,000 gal [0 - 37,476 m³]

**DIMENSIONS**

- **Distributor Pilot**: 1.05” O.D. (26.7 mm)
- **Drain Line**: 3/4” or 1” NPTM
- **Brine Valve**: 1600: 3/8” or 1/2”
- **Injector System**: 1610
- **Mounting Base**: 2.5”– 8 NPSM
- **Height from Top of Tank**: 9” (228 mm)
- **Riser Tube Diameter**: 3/4” (19 mm)
- **Riser Height**: 1/4” Below top of tank

**TYPICAL APPLICATIONS**

- **Water Softener**: 8 - 24” diameter
- **Filter**: 8 - 24” diameter

**ADDITIONAL INFORMATION**

- **Electrical Rating**: 24VAC
- **Max VA**: 50/60 Hz
- **Estimated Shipping Weight**: 15 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)