



LIGHT COMMERCIAL/RESIDENTIAL WATER SOFTENERS (ODL GROUP)

SUPERIOR

WATER CONDITIONING



Water Specialist 1.25" Control Valve

- Solid state microprocessor with easy access front panel settings
- Three modes of operation; meter immediate, meter delayed, or time clock delayed
- Double backwash feature offers optimum regeneration, cleaning ability and efficiency
- 60 selectable pre-programmed regeneration cycles
- Days override feature; 1-28 days available
- Backwash and brining ability to 22" diameter tanks
- Downflow regeneration
- Stores system configuration and operation data in nonvolatile memory
- Coin Cell Lithium battery back-up with an 8 hour carry over
- 12-volt output AC Adapter provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Reliable and proven DC drive

Technical Specifications & Features

- Recommended maximum operating pressure: 100 psig (690 kPa)
- Recommended maximum operating temperature: 100°F (38°C)

Main Control Valve

- Single valve per tank controls all softener functions
- Electronic timer controls all valve cycles including service, backwash, brine draw, second backwash, slow rinse, fast rinse and brine tank refill
- Meter initiated regeneration
- 7000 control valve constructed of fiber reinforced polymer
- Main piston is a lead-free brass* with a Teflon coating
- Simple threaded (NPT) inlet, outlet and drain connections
- 7000 valve uses 24VAC Class 2, CSA certified transformer

Resin

- Premium quality ion exchange softening resin, selected for resistance to fouling and minimum salt usage
- FDA Grade

Softener Tanks and Internals

- Seamless polyethylene liner wrapped with a continuous filament wound/epoxy resin fiberglass shell
- PVC hub/lateral flow distributor and riser tube with washed quartz support bed
- Tanks up to and including 24" diameter are manufactured by Superior Water Conditioning
- Brine tanks are one-piece rotationally molded polyethylene with lid, air check valve assembly, brine well and grid assembly

Warranty

All equipment is warranted against defects in material or workmanship for the following periods:

- Fiberglass tanks - 5 years
- Brine Tank - 1 year
- Control Valve and Electronics - 5 years
- Brine Tank Air Check - 2 years
- All other components are for a period of one year

Optional Features

- Brine tank safety float
- Additional pipe connection types

*As defined under Section 1417(d) of the U.S.E.P.A. Safe Drinking Water Act

LIGHT COMMERCIAL/RESIDENTIAL WATER SOFTENERS (ODL GROUP)

ODL Group Commercial Softener Specifications

| Model | Capacity at Factory Setting grains* | Resin Volume cu.ft. (c.u.m.) | Critical Application Max. Flow Rate usgpm (lps) | Flow Rates usgpm (lps) | | Max. Flow to Drain usgpm (lps) | Salt per Regeneration at Factory Setting lbs (kg) | Mineral Tank Dimensions inches (mm) | Brine Tank (CANADA) Dimensions inches (mm) | Brine Tank (USA) Dimensions inches (mm) | Approx. Space Required inches (mm) | | | Shipping Weight lbs (kg) |
|---------------------|-------------------------------------|------------------------------|---|------------------------|--------------|--------------------------------|---|-------------------------------------|--|---|------------------------------------|--------------|--------------|--------------------------|
| | | | | 15 psi drop | 25 psi drop | | | | | | Height | Depth | Width | |
| ODL 60 - 1.25" S40 | 54,000 | 2 (0.06) | 10 (0.63) | 22 (1.39) | 30 (1.89) | 5 (0.32) | 20 (9) | 14 x 50 (356 x 1270) | 21 x 36 (533 x 914) | 18 x 40 (457 x 1016) | 58 (1473) | 33 (838) | 54 (1372) | 225 (102) |
| ODL 90 - 1.25" S40 | 81,000 | 3 (0.08) | 15 (0.95) | 20 (1.26) | 28 (1.77) | 5 (0.32) | 30 (14) | 14 x 65 (356 x 1651) | 21 x 36 (533 x 914) | 18 x 40 (457 x 1016) | 73 (1854) | 33 (838) | 54 (1372) | 285 (129) |
| ODL 120 - 1.25" S40 | 108,000 | 4 (0.11) | 20 (1.26) | 22 (1.39) | 29 (1.83) | 7 (0.44) | 40 (18) | 16 x 65 (408 x 1651) | 21 x 36 (533 x 914) | 18 x 40 (457 x 1016) | 73 (1854) | 33 (838) | 55 (1397) | 345 (156) |
| ODL 150 - 1.25" S40 | 135,000 | 5 (0.14) | 24 (1.51) | 24 (1.51) | 32 (2.02) | 12 (0.75) | 50 (23) | 21 x 54 (533 x 1372) | 24 x 48 (610 x 1219) | 24 x 50 (610 x 1219) | 63 (1600) | 36 (914) | 64 (1626) | 460 (209) |
| ODL 180 - 1.25" S40 | 162,000 | 6 (0.17) | 24 (1.51) | 24 (1.51) | 32 (2.02) | 12 (0.75) | 60 (27) | 21 x 54 (533 x 1372) | 24 x 48 (610 x 1219) | 24 x 50 (610 x 1219) | 63 (1600) | 36 (914) | 64 (1626) | 515 (234) |
| ODL 210 - 1.25" S40 | 175,000 | 7 (0.20) | 23 (1.45) | 23 (1.45) | 31 (1.96) | 12 (0.75) | 56 (25) | 21 x 69 (533 x 1753) | 24 x 48 (610 x 1219) | 24 x 50 (610 x 1219) | 78 (1981) | 36 (914) | 64 (1626) | 295 (134) |
| ODL 240 - 1.25" S40 | 200,000 | 8 (0.23) | 23 (1.45) | 23 (1.45) | 31 (1.96) | 12 (0.75) | 64 (29) | 21 x 69 (533 x 1753) | 24 x 48 (610 x 1219) | 24 x 50 (610 x 1219) | 78 (1981) | 36 (914) | 64 (1626) | 655 (297) |
| ODL 270 - 1.25" S40 | 180,000 | 9 (0.25) | 24 (1.51) | 24 (1.51) | 32 (2.02) | 15 (0.94) | 54 (24) | 24 x 72 (610 x 1829) | 30 x 48 (762 x 1219) | 30 x 50 (762 x 1219) | 81 (2057) | 42 (1067) | 73 (1854) | 785 (356) |
| ODL 300 - 1.25" S40 | 200,000 | 10 (0.28) | 24 (1.51) | 24 (1.51) | 32 (2.02) | 15 (0.94) | 60 (27) | 24 x 72 (610 x 1829) | 30 x 48 (762 x 1219) | 30 x 50 (762 x 1219) | 81 (2057) | 42 (1067) | 73 (1854) | 835 (379) |
| ODL 330 - 1.25" S40 | 220,000 | 11 (0.31) | 24 (1.51) | 24 (1.51) | 32 (2.02) | 15 (0.94) | 66 (30) | 24 x 72 (610 x 1829) | 30 x 48 (762 x 1219) | 30 x 50 (762 x 1219) | 81 (2057) | 42 (1067) | 73 (1854) | 885 (401) |

* The factory regeneration recommended setting of the ODL Group is shown in italics in the table above. Higher capacities with an increased salt dosage is achievable on most systems with the exception of some larger systems.

• Superior Water Conditioning reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change

7000SXT, HIGH FLOW RATE CONTROL VALVE (ODL GROUP)



Technical Specifications & Features

- Recommended maximum operating pressure: 100 psig (690 kPa)
- Recommended maximum operating temperature: 100°F (38°C)

Main Control Valve

- Single valve per tank controls all softener functions
- Electronic timer controls all valve cycles including service, backwash, brine draw, second backwash, slow rinse, fast rinse and brine tank refill
- Meter initiated regeneration
- 7000 control valve constructed of fiber reinforced polymer
- Main piston is a lead-free brass* with a Teflon coating
- Simple threaded (NPT) inlet, outlet and drain connections
- 7000 valve uses 24VAC Class 2, CSA certified transformer

Resin

- Premium quality ion exchange softening resin, selected for resistance to fouling and minimum salt usage
- FDA Grade

Valve Specifications

| | |
|----------------|----------------------------------|
| Valve material | Fiber-reinforced polymer |
| Inlet/Outlet | 3/4" - 1-1/2" NPT, BSP and Sweat |
| Cycles | Up to 6 cycles |

Flow Rates (50 psi Inlet) - Valve Alone

| Piston | Standard | High Flow | Filter |
|-----------------------------|----------|-----------|--------|
| Continuous | 27.7 | 35.8 | 36.7 |
| Peak (25 psi drop) | 35.5 | 46.0 | 47.5 |
| Cv (flow at 1 psi drop) | 7.1 | 9.2 | 9.5 |
| Max. backwash (25 psi drop) | 7.4 | 15.8 | 31.3 |

Regeneration

| | |
|-------------------|-----------------------|
| Downflow/Upflow | Downflow only |
| Adjustable cycles | Yes |
| Time available | 199 minutes per cycle |

Meter Information

| | |
|-----------------------------|---------------------|
| Meter accuracy | +5/-8% (2 - 40 gpm) |
| Meter capacity Range (gal.) | 1 - 999,900 |

Dimensions

| | |
|-------------------------|------------------------------|
| Distributor pilot | 1.05" or 32 mm |
| Drain line | 3/4" or 1" NPT Quick Connect |
| Brine line | 3/8" or 1/2" Quick Connect |
| Mounting base | 2-1/2" - 8 NPSM |
| Height from top of tank | 7.9" |

Typical Applications

| | |
|----------------|-------------------|
| Water softener | 8" - 24" diameter |
| Filters | 8" - 24" diameter |

Additional Information

| | |
|---------------------------|------------------|
| Injector brine system | 1610 |
| Electrical rating | 24 VAC, 50/60 Hz |
| Max. VA | 15 |
| Estimated shipping weight | 11 lbs. |
| Pressure | |
| Hydrostatic: | 300 psi |
| Working: | 20 - 125 psi |
| Temperature | 34o - 110o F |