

Custom Water Softeners

EXPERTISE

The Water King staff engineers and technicians can custom design a water treatment system to fit your application. We have developed a list of available materials and options, which we have used in the past to meet customer needs. A water softener consists of tanks, valves, resin, brine system, face piping, internals, and controls. Not all of the options are compatible. The list below should give you some background information to allow you to communicate with our technical staff to develop your custom system.

TANKS

MATERIAL

- ◆ ASME Code Spun Wound Fiberglass
- ◆ Non-code Fiberglass
- ◆ ASME Code Carbon Steel
- ◆ Non-code Carbon Steel
- ◆ Custom Pressure and Temperature Ratings
- ◆ Stainless Steel – 304 and 316

COATING & LINING CAPABILITIES

- ◆ Epoxy Phenolic Interior Lining
- ◆ Vinyl Ester Interior Lining (fiberglass tanks only)
- ◆ Epoxy Interior Lining & Exterior Coating
- ◆ Hot Dipped Galvanized Interior and Exterior
- ◆ Exterior Paint Custom Color Selection
- ◆ Urethane Exterior Coating
- ◆ Enamel Exterior Coating

LEGS

- ◆ Adjustable Jacks with Saddle
- ◆ Structural Steel (i.e. angles or channels)
- ◆ Seismic Design
- ◆ Strap
- ◆ Skirt Bottom Support (fiberglass tanks only)

OPENINGS

- ◆ 4" x 6" Hand Holes
- ◆ 11" x 15" Manways
- ◆ 12" x 16" Manways
- ◆ Custom Ports and Manways

VALVES

TYPES

- ◆ 5-Cycle Magnum CV™ Bayou Series – 1½" and 2"
- ◆ 5-Cycle Task Master II™ – 1½", and Task Master™ – 2" and 2½"
- ◆ ¾" Residential
- ◆ Butterfly Valve Nest (manual, pneumatic or electrically actuated)
- ◆ Diaphragm Valve Nest
 - Bronze
 - Cast Iron
 - Plastic
 - Stainless Steel
- ◆ Manual Ball Valves

CAT270.2

TUBING FOR DIAPHRAGM VALVES

- ◆ Polypropylene
- ◆ Stainless Steel
- ◆ Parker/Swagelok fittings

ACTUATOR ON DIAPHRAGM VALVES

- ◆ Pneumatic - Plant Air
- ◆ Pneumatic - WKI Supply Compressor
- ◆ Hydraulic – Operate Valves With Water Using System Pressure

RESIN

- ◆ WK100 Strong Acid Cation Exchange Resin
- ◆ WK100H High Temperature Cation Exchange Resin
- ◆ WK300 Anion Exchange Resin
- ◆ SST60 Low Leakage Shallow Shell Technology Cation Resin
- ◆ Other Resins Available on Request for Specialty Projects
- ◆ All Systems Have Gravel Support Media

BRINING SYSTEMS

SYSTEM TYPES

- ◆ Educator – Internal or External
- ◆ Pumped Brine
- ◆ Brine maker (36 to 80 ton poly tank systems)

BRINE TANKS

- ◆ Fiberglass
- ◆ Polyethylene

FACE PIPING

TYPES

- ◆ CPVC
- ◆ Copper
- ◆ Fiberglass
- ◆ Galvanized - Schedule 40 or Schedule 80
- ◆ PVC
- ◆ Polypropylene
- ◆ Stainless Steel - 304 and 316 Grade
- ◆ Welded Carbon Steel - Schedule 40 or Schedule 80

JOINTS

- ◆ Flanged -Flat or Raised Face
- ◆ Heat Fusion
- ◆ Solvent Welded
- ◆ Threaded
- ◆ Welded Metal
- ◆ Gruvlok or Vitaulic Couplings

INTERNALS – UNDERDRAINS AND DISTRIBUTORS

TYPES

- ◆ Single Point
- ◆ Four Point
- ◆ Six Point
- ◆ Hub and lateral
- ◆ Header and lateral

MATERIALS

- ◆ PVC
- ◆ Stainless Steel

CONTROLS

- ◆ Explosion Proof
- ◆ Marine Shielded Cable ◆ NEMA Rated Enclosures ◆ Standard Commercial Wiring

◆ **WATER KING** can meet the most stringent industrial specifications including oil field, food services, medical facilities, municipal water supply, and chemical plants. Call us to discuss your water system needs.