DO...read, understand and follow all instructions; failure to take every precaution will void warranty and may result in vessel failure.

DO...mount the shell on horizontal members at span "S" using compliant vessel supports furnished; Shim saddles if required. Tighten hold down straps just snug.

DO...align and center side ports with the manifold header. Correct causes of misalignment in a row of vessels connected to the same header.

DO...use flexible type IPS grooved-end pipe couplings, at side ports; allow full, 0.125 inch gap between port and piping, and position piping to maximize flexibility of connection.

DO...provide flexibility in, and support for piping manifolds so that restraint; provide additional flexible joints in large pipes leading to manifold header.

DO...provide overpressure protection for vessel set at not more than 105% of design pressure.

DO...inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion.

DO...provide overpressure protection for vessel set at not more than 675 PSIG (4.65 MPa) pressure is relieved from vessel.

DO NOT...make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure; undue restraint develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass shell. The end closure, incorporating close fitting, interlocking metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the head.

DO NOT...operate vessel without connecting both Permeate Ports

DO NOT...operate vessel at pressure and temperature in excess of

DO NOT...operate vessel with permeate pressure in excess of 125 psi at 190°F (0.86 MPa at 88°C). DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way.

DO NOT...operate outside the pH range 3-11.

DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way.

DO NOT...operate vessel without Thrust Cone installed downstream.

DO NOT...operate vessel with permeate pressure in excess of 125 psi at 190°F (0.86 MPa at 88°C). DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way.

DO NOT...operate outside the pH range 3-11.

DO...Lubricate seals sparingly, using nonpetroleum Based lubricants, i.e. Parker Super O-lube®, Glycerin or suitable silicone based lubricants.

The CodeLine 80S45 Non Coded vessel is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) as per Section X. ASME Edition 2015.

The CodeLine 80S45 Non Coded vessel must be installed operated and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

The high performance Filament wound FRP shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass shell. The end closure, incorporating close fitting, interlocking metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the head.

Pentair will assist the purchaser in determining the suitability of this standard vessel for their specific operating conditions. The final determination however, including evaluation of the standard material of construction for compatibility with the specific corrosive environment, shall be the responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications are subject to change without notice.