



### TECHNICAL SPECIFICATION

Design operating pressure 300 PSI (20.68 Bar)  
 Max operating temperature 65°C (149° F )  
 Min operating temperature -07°C ( 19.40° F )

Hydro- Test Pressure 330 PSI (22.75 Bar)

### USE

UKL fiberglass membrane housing are designed for continuous, long term use as housing for membrane filtration to treat tap & low brackish waters up to 300 PSI. Any standard 8 inch nominal diameter spiral wound or hollow fiber membrane will easily accommodated in UKL membrane housing. The element & head assembly interface hardware for the specified membrane is supplied with the vessel.

Model 80-300PSI has been designed to meet the standards of the American Society of Mechanical Engineer (ASME).

For safer & better service life membrane housing, follow all the given precautionary instructions. Failure to do so will void the warranty.

### Quick Checks

- Polyurethane or rubber saddles should be use as an interface between the membrane housing shell & skids/ frame.
- Under pressure, membrane housing must be free to expand. ensure that flexible fittings & couplings are used to allow expansions.
- Vessel must not be subjected to excessive stress caused by bending moments.
- Vessel port & components should not be use to support piping manifold or any other components.

UKL is engaged in continuous development of the product & reserves the right to amend the information given herein without notice & without incurring any obligations.

### PRECAUTIONS

#### Mounting:-

- Mount the membrane housing centered on horizontal members spaced at recommended span (s) using compliant mounting hardware furnished
- Tighten the straps—maximum one ft—lb.

#### Piping:-

- Use flexible piping/victaulic couplings for permeate & feed/concentrate connections.
- Hanging piping manifolds or supporting other components with membrane housing may result in damaging of membrane housing.
- Permeate port is made of Engineering plastic & tightening the permeate port more than one turn past hand tight will damage the port.

#### Overpressure Protection:-

- Provide overpressure protection for membrane housing set at not more than 105% design operating pressure.

#### Inspection:-

- Inspect end closures regularly, replace deteriorated components & correct causes of deterioration.

#### Servicing:-

- Relive system pressure before working on the membrane housing. Working on system under pressure may result in severe bodily harm or property damage.

#### Before start-up:-

- Ensure that the retaining ring is in place & fully seated in the groove.

#### Pressures:-

- Operating the vessel in excess of the ratings, will shorten the life & may result in severe bodily harm or property damage.
- Permeate port are designed to operate at 125 psi operating at pressure in excess of 125 psi must approved by factory.
- Membrane housing are not designed for vacuum conditions operate only in positive pressure applications.

#### pH Operation:-

- Membrane housing are designed for continuous operation at a pH of 3-11 & for intermittent cleaning pH 2-12 for less than 30 minutes..

#### STOPPAGE:-

- Some feed waters may cause corrosion under static condition, in order to prevent the system from corrosion, it is recommended to flush the system with permeate water.

### ORDERING

#### While ordering please specific:

- Model
- Element length
- Make & Model of membrane element to be used.
- If any special requirement.

#### Exterior portion:

- Standard- White high glass polyurethane coat.
- As per customer requirement after getting discussion with factory people.

### MODEL IDENTIFICATION

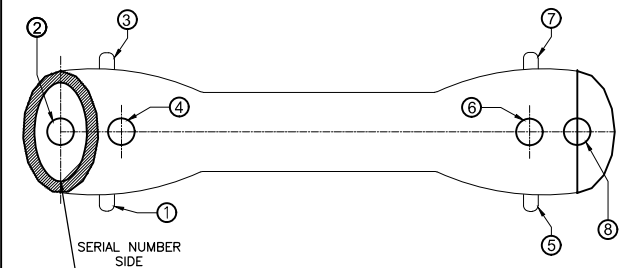
80-300-SP

80	SIZE/INTERNAL DIA. (8")
40	NO OF 40" ELEMENTS(ONE ELEMENT)
300	OPERATING PRESSURE (300 PSI)
SP	TYPE OF ENTRY (SIDE ENTRY)

#### Spare Material options:

- Please check the table given in drawing no. 80-17-300PSI-SP

### PORT CONFIGURATION DETAIL.



### PORT DETAIL

D	1.5" GROOVE DETAIL
E	2" GROOVE DETAIL
F	2.5" GROOVE DETAIL