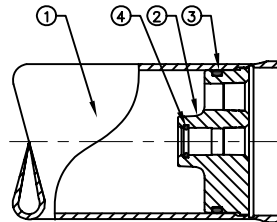
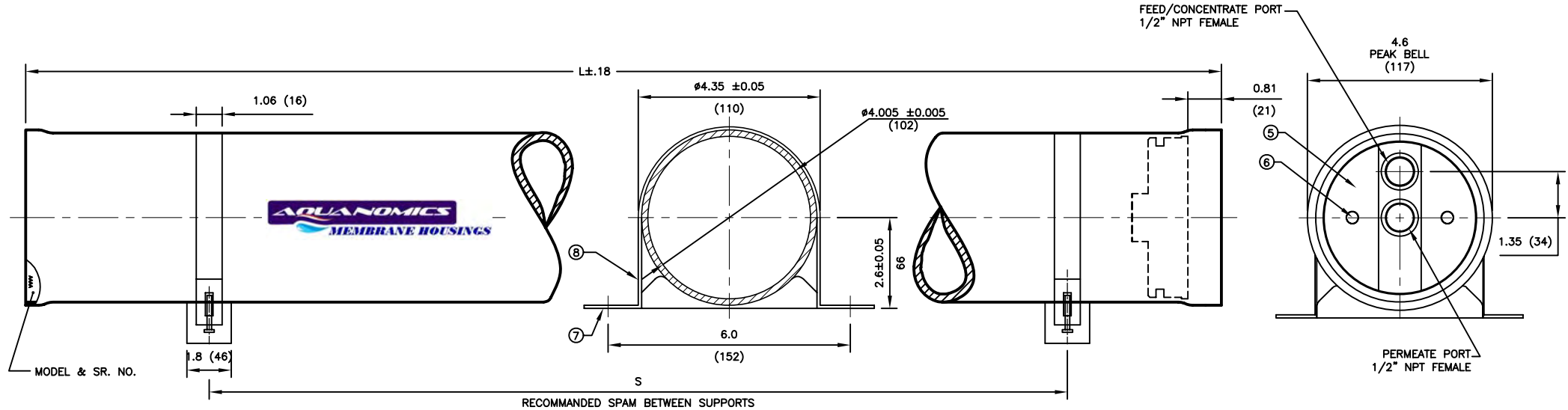


250 PSI / 17 BAR
END PORT



SECTION - END CLOSURE

NOTES :

- DIMENSIONS IN INCHES (MM APPROX)
- FOR REFERENCE ONLY NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED
- CENTER VESSEL ON 2 SUPPORTS AT SPAN "S"

▲ WARNING :

INCORRECT MANFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EVERY PRECAUTION MENTIONED IN USER MANUAL

- SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Shell Length Code	L L.O.A. INCH (MM)	P Span INCH (MM)	Approx. Empty Weight LB (KG)
1.	44.62 (1133)	28 (711)	8.8 (4.0)
2.	84.62 (2149)	56 (1422)	14.3 (6.5)
3.	124.62 (3165)	80 (2032)	23.0 (10.5)

DWG. REF	QTY.	PART NUMBER	DESCRIPTION	MATERIALS
1	1	-	SHELL	Filament wound epoxy/glass composite. Head locking grooves integrally wound in place. Shell exterior coated with high gloss ployurethane paint
2	2	U2EP-42501	END PLUG	ENGINEERING THERMOPLASTIC
3	2	U2SL-44002	PLUG SEAL	EPDM
4	2	U2SL-44004	PWT SEAL	EPDM
5	4	U2HM-42505	HALF MOON LOCKING SEGMENT	SS 304
6	4	U2SC-42506	SCREW	SS 304
VESSEL SUPPORT - OPTIONAL				
7	2	U2-41501	SADDLE	ELASTOMER
8	2	U2-41502	STRAP	SS 304 WITH CUSION



**MODEL - A4E250
MEMBRANE HOUSING**

ENGR
RP-2007
QLTY
GM-2007
MRKT
DP-2007

SCALE : NTS ECN 0000 SHEET 1 OF 2 SIZE A3 NUMBER 664250 REV 0

TECHNICAL SPECIFICATIONS

Design Operating Pressure **250 PSI (17.2 Bar)**
 Max Operating Temperature **49°C (120°F)**
 Min Operating Temperature **-07°C (20°F)**

Hydro - Test Pressure **375 PSI (25.8 Bar)**
 Qualification Burst Pressure **1500 PSI (103.4 Bar)**

USE

AQUANIMICS fiberglass membrane housings are designed for continuous, long term use as housings for membrane filtration. AQUANOMICS 250 PSI membrane housings are designed to treat tap & low brackish waters. Any standard 4 Inch nominal diameter & 40 Inch long spiral wound membrane with ¾" dia male product water tube will easily accommodate in AQUANOMICS membrane housing.

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

Quick Checks

- Polyurethane or rubber saddles should be used 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 expansion.
- Vessel must not be subjected to excessive stress caused by bending moments.
- Vessel ports & components should not be used to support piping manifolds or any other components.

AQUANOMICS is engaged in continuous development of the products and reserves the right to amend the information given herein without notice and without incurring any obligations.

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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 the 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 and correct causes of deterioration.

Servicing:-

Relieve 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 and 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.
- Engineering permeate port are designed to operate at 125psi, operating at pressure in excess of 125psi must be approved by factory.
- Membrane Housings are not designed for VACUUM conditions; operate only in positive pressure applications.

pH Operation:-

Membrane Housings 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.

MODEL IDENTIFICATION

A4E250-1

A	BRAND AQUANOMICS
4	SIZE / INTERNAL DIAMETER (4")
E	TYPE OF ENTRY (END ENTRY)
2 5 0	OPERATING PRESSURE (250 PSI)
- 1	NO OF 40" ELEMENTS (ONE ELEMENT)