



SECTION THROUGH END CLOSURE

Dwg. Ref	Qty. Per	Part Number	Part Name	Materials/Remarks
SHELL				
①	1		Shell	Filament wound epoxy/glass composite. Head locking grooves integrally wound in place. Shell exterior coated with grey high gloss polyurethane paint.
HEAD				
②	2	96005	Bearing/Sealing Plate	PVC Thermoplastic (Grey) - 120° F Max
③	2	45313	Plate Seal	Ethylene Propylene - O-Ring
④	2	45296	PWT Seal	Ethylene Propylene - O-Ring
HEAD INTERLOCK				
⑤	4	50371	Locking Segment	316 SST
⑥	4	45232	Screw	304 SST
⑦	AR	45058	SADDLE	316 SST
⑧	AR	RO 1057	STRAP	304 SST
FOR REFERENCE ONLY				

NOTES:

- * DIMENSIONS IN INCHES (MM APPROX)
- * NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED

Shell Length Code	L L.O.A. IN (MM)	APPROX. ASSEMBLY Weight LB (KG)
14	18 (457)	2.21 (1.0)
21	25 (635)	3.75 (1.7)
40	44 (1118)	5.51 (2.5)

Pentair Pressure Vessels

MODEL 25-250

LOW PRESSURE MEMBRANE HOUSING

SHEET 1 OF 2	NUMBER 99001	REV. B
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RATING:

DESIGN PRESSURE..... 250 PSI AT 120°F
 (1.7 MPa AT 49°C)
 MIN. OPERATING TEMP..... 20°F
 (-7°C)
 FACTORY TEST PRESSURE..... 375 PSI
 (2.6 MPa)
 BURST PRESSURE..... 1000 PSI
 (6.9 MPa)

INTENDED USE

THE MODEL 25-250 FIBREGLASS PRESSURE VESSEL IS DESIGNED FOR CONTINUOUS, LONG-TERM USE AS A HOUSING FOR SINGLE REVERSE OSMOSIS AND ULTRAFILTRATION ELEMENTS IN TYPICAL COMMERCIAL WATER TREATMENT SYSTEMS AT PRESSURES UP TO 250 PSI. ANY MAKE OF 4 INCH NOMINAL DIAMETER SPIRAL-WOUND ELEMENT WITH A 3/4" DIAMETER MALE PRODUCT WATER TUBE IS EASILY ACCOMMODATED.

THE MODEL 25-250 MUST BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE LISTED PRECAUTION, AND GOOD INDUSTRIAL PRACTICE TO ASSURE SAFE OPERATION OVER A LONG SERVICE LIFE.

THE HIGH PERFORMANCE REINFORCED PLASTIC SHELL MUST BE ALLOWED TO EXPAND UNDER PRESSURE: UNDER RESTRAINT AT SUPPORT POINTS OR PIPING CONNECTIONS CAN CAUSE LEAKS TO DEVELOP IN THE 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 ASSEMBLY.

PENTAIR WATER 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 MATERIALS OF CONSTRUCTION FOR COMPATIBILITY WITH THE SPECIFIC CORROSIVE ENVIRONMENT SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

PRECAUTIONS

DO.... READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS;FAILURE TO TAKE EVERY PRECAUTION WILL AVOID WARRANTY AND MAY RESULT IN VESSEL FAILURE

DO.... PROVIDE OVER PRESSURE PROTECTION FOR VESSEL SET AT NOT MORE THAN 105% OF DESIGN PRESSURE

DO.... INSPECT END CLOSURES REGULARLY; REPLACE COMPONENTS THE HAVE DETERIORATED AND CORRECT CAUSES OF CORROSION

DO.... NOT... MAKE RIGID PIPING CONNECTIONS TO PARTS OR CLAMPS VESSELS IN ANY WAY THAT RESTRICTS GROWTH OF FIBREGLASS SHELL UNDER PRESSURE; ▲DIA = 0.01 IN. (0.25mm) AND ▲L = 0.3 IN. (8mm) FOR A LENGTH CODE -1 VESSEL

DO.... NOT HANG PIPING MANIFOLDS FROM PARTS OR USE VESSEL IN ANY WAY TO SUPPORT OTHER COMPONENTS

DO.... NOT OPERATE VESSEL AT PRESSURE AND TEMPERATURES IN EXCESS OF ITS RATING

DO.... NOT OPERATE VESSEL WITHOUT ELEMENT INSTALLED

DO.... NOT OPERATE VESSEL WITH PERMEATE PORT PRESSURE IN EXCESS OF 125 PSI (0.9 MPa) AT 120°F (49°)

DO.... NOT TOLERATE LEAKS OR ALLOW END CLOSURES TO BE ROUTINELY WETTED IN ANY WAY

DO.... NOT PRESSURIZE VESSEL UNTIL DOUBLE CHECKING TO VERIFY THAT THE RETAINING RINGS ARE IN PLACE

DO.... NOT WORK ON ANY COMPONENT UNTIL FIRST VERIFYING THAT PRESSURE IS RELIEVED FROM VESSEL.

ORDERING

PLEASE SPECIFY THE FOLLOWING

- * VESSEL MODEL
- * MEMBRANE ELEMENT MAKE AND MODEL NUMBER
- * SPECIFIC CONCERNS REGARDING INTENDED USE AND REQUESTS FOR SPECIAL MATERIALS OF CONSTRUCTION.

40-250-

SHELL LENGHT/ELEMENT INTERFACE

CODE	ELEMENT CAPACITY
14	ONE 14" DIRECT CONNECT
21	ONE 21" DIRECT CONNECT
40	ONE 40" DIRECT CONNECT

SHELL FINISH

EXTERIOR SHELL FINISH
GREY

CERTIFICATION

CERTIFICATION GRADE
CERTIFIED BY PENTAIR WATER

OPTIONS

END PLUG MATERIALS

MATERIALS
* POLYVINYL CHLORIDE

PERMEATE PORT CONFIGURATIONS

PORT SIZES
* 1/4" NPT FEMALE

FEED CONC. PORT CONFIGURATIONS

PORT SIZES
* 1/4" NPT FEMALE

* STANDARD OPTIONS