

Protec Pressure Vessels PRO-8-1000-MSP

PRO-8-1000-MSP



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The PROTEC Model PRO-8-1000-MSP is designed for continuous use as housing for membrane filtration elements to purify typical brackish waters at any positive pressure up to 1000 PSI.

What separates this MSP model from the traditional side port is the addition of the 3 " port designed specifically for systems using multiple port technology.

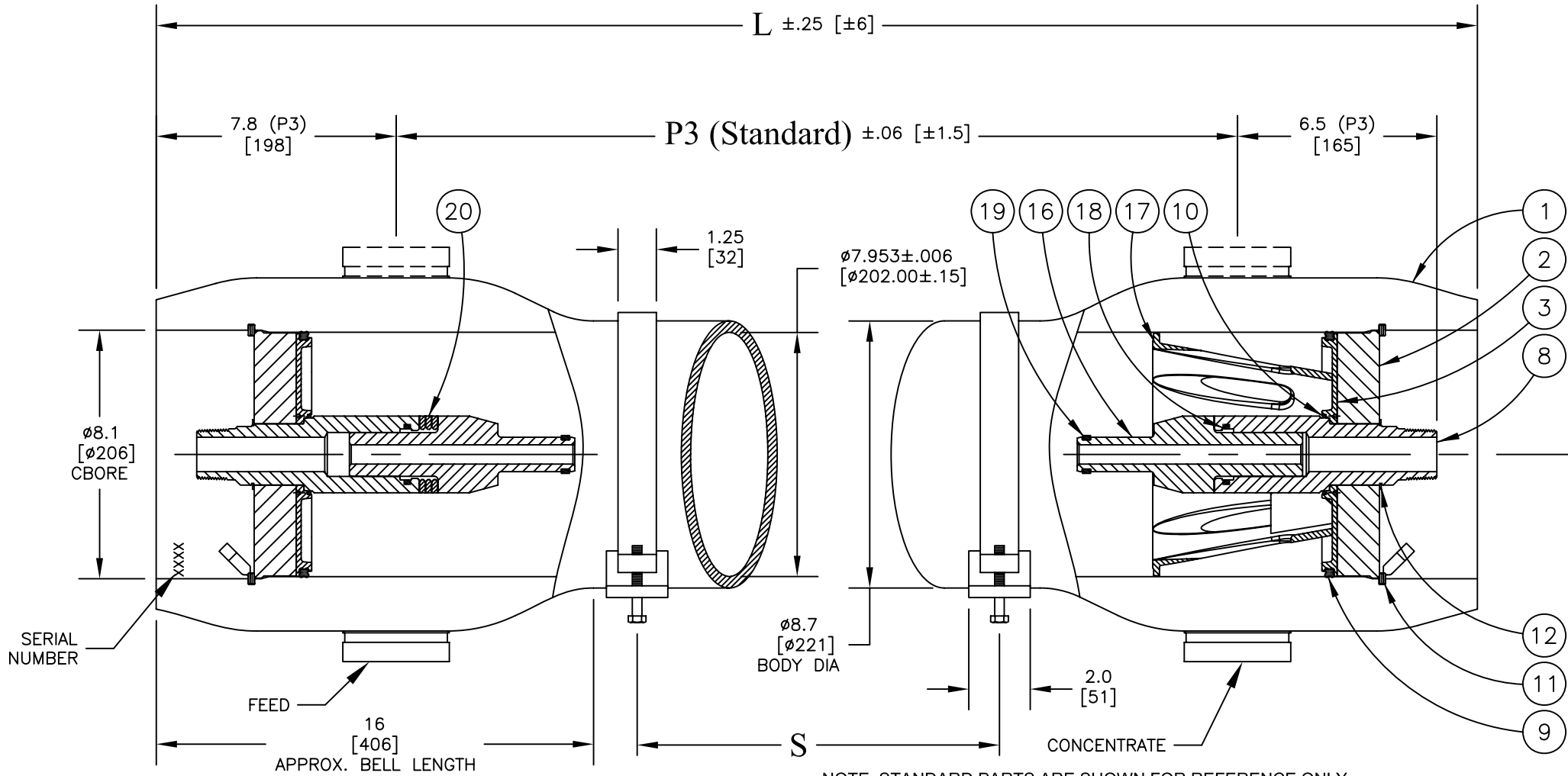
The PRO-8-1000-MSP will accommodate any make of eight-inch nominal diameter spiral-wound element as well as many hollow fiber elements. The element interface hardware for the specified element is supplied with the vessel.

The Model PRO-8-1000-MSP has been designed to meet the standards of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section X. At an additional cost, vessels can be inspected during fabrication by an ASME Authorized Inspector and Code stamped.

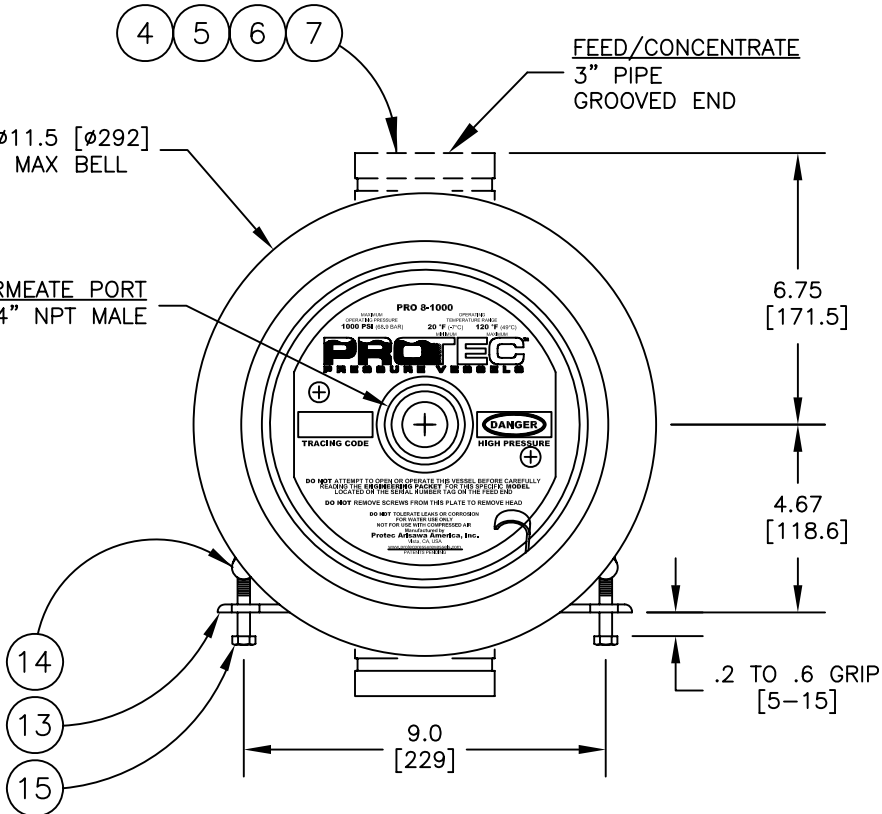
Design Pressure	1000 PSI	Operating pH Range	3-11
Minimum Operating Temp.	20°F	Cleaning pH Range (less than 30 min)	2-12
Maximum Operating Temp.	120°F		
Factory Test Pressure	1100 PSI	Application	Typ. Brackish Water
Burst Pressure	6000 PSI		

Design Pressure = 1000 PSI @ 120 °F
Min. Design Temperature = 20 °F @ 1000 PSI
Hydrotest Pressure = 1100 PSI

1000 PSI
MEGA
SIDE PORT



NOTE: STANDARD PARTS ARE SHOWN FOR REFERENCE ONLY
CHECK ORIGINAL ORDER FOR ORDERING SPARE PARTS



NOTES:
DIMENSIONS IN INCHES (MM APPROX.)

FOR REFERENCE ONLY, NOT FOR CONSTRUCTION UNLESS CERTIFIED

SHIMMING OF THE SADDLES MAY BE REQUIRED

CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) "S".

INCORRECT MANIFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EVERY PRECAUTION LISTED IN THE ENGINEERING PACKET OR USERS MANUAL.

INTERNAL PERMEATE PRESSURE MUST NOT EXCEED 125 PSI.

ASME SECTION X, 2010
RP CODE STAMP OPTIONAL

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 8-1000-MSP

APPROVED AP 6/23/04	ECO	REVISED 4/28/11	DRAWING 101022	REV M
CHECKED AP 6/23/04				
DRAWN AP 6/23/04				

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ITEM	QTY	P/N	DESCRIPTION	MATERIAL
1	1	4080213	Shell	Filament Wound, Epoxy FRP
2	2	4080034	Bearing Plate	6061-T6 Aluminum, SB-221, Anodized
3	2	4080177-3	Sealing Plate	Noryl GFN2
4	2	4080214	Feed/Concentrate Port, 3", "K"	SST Super Duplex, SA-790
5	2	6121373	Retaining Ring, F/C Port, 3", "K"	Stainless Steel, 316, SA-479
6	2	6180340-N	O-Ring Seal, F/C Port, 3", "K"	Ethylene Propylene
7	2	6121343	Retaining Ring, F/C Port, 3", "K"	Stainless Steel, 316, SA-479
8	2	4080308	Permeate Port	Noryl GFN2
9	2	6100442MK	Head Seal	Ethylene Propylene
10	2	6110229-N	Permeate Port Seal	Ethylene Propylene
11	2	4080320	Retaining Ring w/ Finger Pull	Stainless Steel, 316, SA-479
12	2	6121200	Retaining Ring, Permeate Port	Stainless Steel, 316
13	2*	4080175	Support Saddle	Thermoplastic Rubber
14	2	4080137	Strap Assembly	Stainless Steel, 316
15	4	6150001	Strap Screw	Stainless Steel, 18-8
16	2	A/R	Adapter	Thermoplastic
17	1	4080165-1	Thrust Cone	PVC Thermoplastic
18	2	6110326-N**	Adapter Seal	Ethylene Propylene
19	A/R	A/R	PWT Seal	Ethylene Propylene
20	3	4080062-4	Shim, Adapter	Noryl GFN2

*3 each with shell length -4 and longer
**6110221-N when Permeate Port is not Noryl

Shell Length Code	L inch (mm)	P3 Standard inch (mm)	S Span in (mm)	Empty Weight lb (kg)
-1	61.6 [1564.64]	46 [1168.40]	1 @ 28 [711.20]	133 (60)
-1.5	81.6 [2072.64]	66 [1676.40]	1 @ 42 [1066.80]	157 (71)
-2	101.6 [2580.64]	86 [2184.40]	1 @ 56 [1422.40]	180 (82)
-3	141.6 [3596.64]	126 [3200.40]	1 @ 80 [2032.00]	228 (104)
-4	181.6 [4612.64]	166 [4216.40]	2 @ 64 [1625.60]	275 (125)
-5	221.6 [5628.64]	206 [5232.40]	2 @ 78 [1981.20]	322 (146)
-6	261.6 [6644.64]	246 [6248.40]	2 @ 92 [2336.80]	370 (168)
-7	301.6 [7660.64]	286 [7264.40]	2 @ 106 [2692.40]	417 (190)
-7.5	321.6 [8168.64]	306 [7772.40]	2 @ 114 [2895.60]	441 (200)
-8	341.6 [8676.64]	326 [8280.40]	2 @ 120 [3048.00]	464 (211)