

TEC Model

THE NEXT GENERATION OF PRESSURE VESSEL DESIGN

Protec Arisawa is introducing the advanced TEC model pressure vessel that features a single molded head assembly. The solid molded end cap design provides a fully corrosion resistant head. This unique design eliminates the risk of permeate port leaks and makes for a single part replacement during the life of the vessel. The incredibly strong material of construction makes this vessel head suitable for high temperature applications and resistant to damage by aggressive water treatment chemicals.



WHEN THE PRESSURE IS ON... CALL PROTEC!

Protec Arisawa is the global leader for the design and the manufacture of FRP Pressure Vessels for membrane treatment systems. With 3 facilities strategically located on 3 different continents and over 40 years of experience in filament winding, Protec Arisawa is proud to be the only producer of 8" vessel housings in the USA. Our sole focus is membrane housings, resulting in the highest quality product on the market today with the most customizable options and shortest lead time to meet our customer's requirements. Protec Arisawa vessels are the top choice for membrane housings.



PROTEC ARISAWA AMERICA, INC.
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TEC MODEL

The TEC model is the next generation of pressure vessel design. As with all Protec vessels, the TEC model is produced following strict ASME testing criteria and manufacturing procedures. It features the same efficient and easy to use pull ring as our PRO models with an added strength in the permeate port.

TEC FEATURES

- Corrosion proof head design
- Glass filled Noryl™ material construction
- Single molded assembly
- Full range of 1.5" - 4" side ports available
- High quality end-cap brass inserts
- Engineered & designed to ASME standards

TEC BENEFITS

- No permeate port leaks
- Ability to remove head safely with T-pulls
- Suitable for high temperature applications
- Single part replacement
- Use of industry standard pull ring
- Chemical resistance
- Follows ASME testing criteria



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ITEM	QTY	PIN	DESCRIPTION	MATERIAL
1	1	408019	Shell	Filament Wound, Epoxy FRP
2	2	408028	Bearing Plate	6061-T6 Aluminum, SB-221, Anodized
3	2	4080177-3	Sealing Plate	Noryl GFNZ
4	2	4080250	Feed/Concentrate Port, 1-1/2", "D"	Stainless Steel, 316, SA-312
5	4	6121187	Retaining Ring, F/C Port, 1-1/2", "D"	Stainless Steel, 316, SA-479
6	2	6194604M	O-Ring Seal, F/C Port, 1-1/2", "D"	Ethylene Propylene
7	2	4080309	Permeate Port	Noryl GFNZ
8	2	6100442MK	Head Seal	Ethylene Propylene
9	2	6110225M	Permeate Port Seal	Ethylene Propylene
10	2	4080320	Retaining Ring, Permeate Port	Stainless Steel, 316, SA-479
11	2	6121200	Retaining Ring, Permeate Port	Stainless Steel, 316
12	2*	4080137	Support Saddle	Thermoplastic Rubber
13	2	4080137	Strip Assembly	Stainless Steel, 316L
14	4	6150001	Strip Screw	Stainless Steel, 18-8
15	2	AIR	Adapter	Thermoplastic
16	1	4080165-1	Thru Cone	PVC Thermoplastic
17	2	6110325M	Adapter Seal	Ethylene Propylene
18	AIR	AIR	PVIT Seal	Ethylene Propylene
19	3	4080062-4	Shim, Adapter	Noryl GFNZ

*3 each with shell lengths 4 and longer.

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 MANIPULATING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EXTREME PRECAUTION LISTED IN THE ENGINEERING MANUAL OR USER'S MANUAL.
INTERNAL PERMEATE PRESSURE MUST NOT EXCEED 125 PSI.
ASME SECTION VIII, 2013
RP CODE STAMP OPTIONAL
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PROTEC
QRTS QW/C
Vista, California U.S.A.
www.protec-usa.com

PRO 8-300-SP

APPROVED: 11/30/00
AP: 11/30/00
CHECKED: 11/30/00
DRAWN: 11/30/00

ECO 20002
REVISED: 3/31/14
DRAWING: 101002
REV: V

Design Pressure = 300 PSI @ 120 °F
Min. Design Temperature = 20 °F @ 300 PSI
Hydrotest Pressure = 330 PSI

300 PSI
SLIDE PORT

