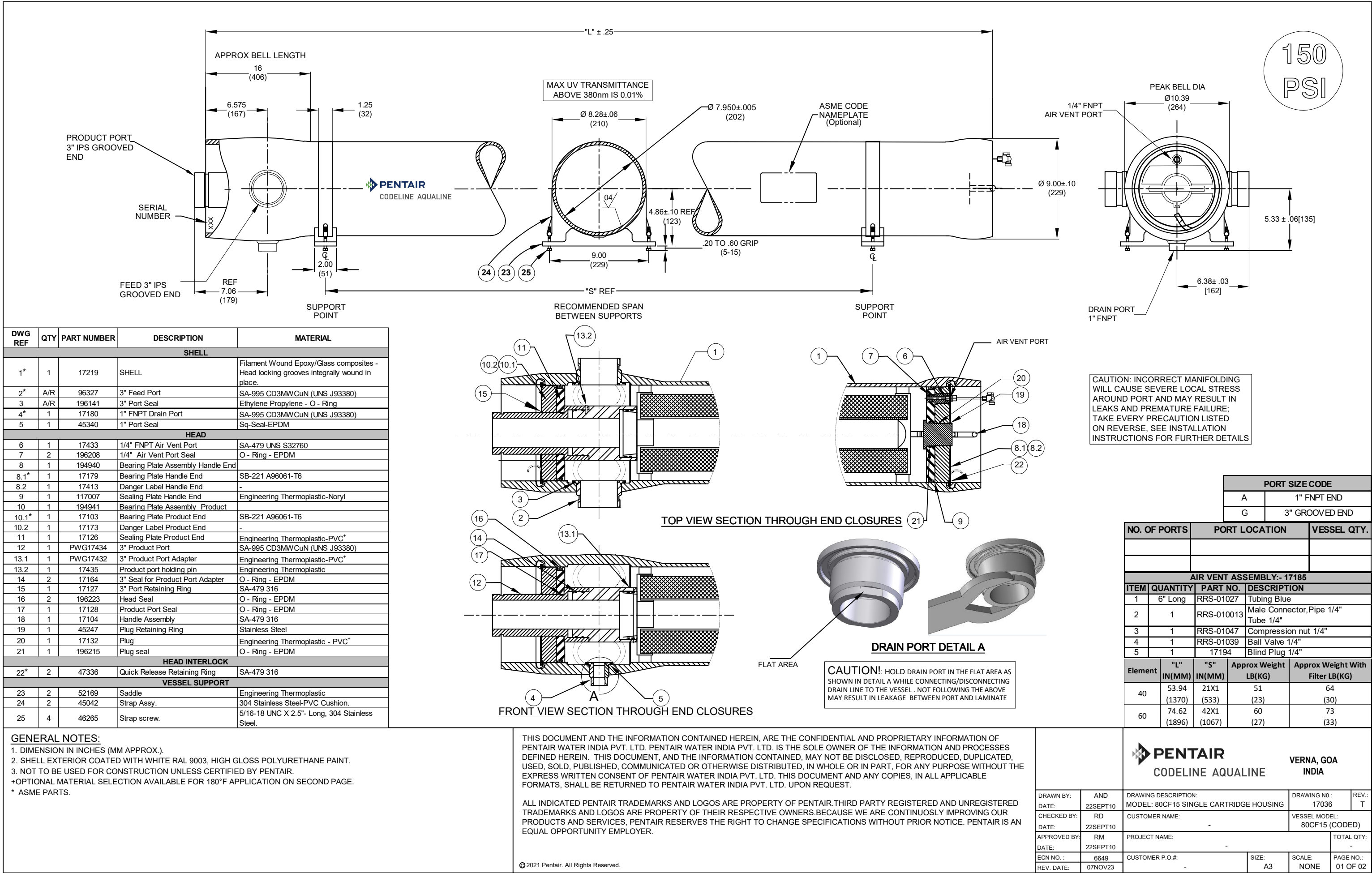




RATING:
DESIGN PRESSURE.....PVC/PET
150 PSIG at 140°F/180°F
(1.03 MPa at 60°C/82°C)
MIN. OPERATING TEMP20°F
(-7°C)
FACTORY TEST PRESSURE.....CE/ASME
225 PSIG/165 PSIG
(1.55 MPa/1.14 MPa)
QUALIFICATION PRESSURE.....900 PSI
(6.21 MPa)

INTENDED USE:
The AquaLine 80CF15 Fiberglass Pressure Vessel is designed for continuous, long-term use as housing for AquaLine range of micro filtration elements.

The AquaLine 80CF15 is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) as per Section X Edition 2023 and all metallic parts are designed as per ASME Section VIII Division I Edition 2023. At small additional cost vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The AquaLine 80CF15 must be installed, operated and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

The high-performance Filament wound FRP shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass 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.

Pentair 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 material of construction for compatibility with the specific corrosive environment, shall be the responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications are subject to change without notice.

PRECAUTIONS:

DO...read, understand and follow all instructions; failure to take every precaution will void warranty and may result in vessel failure.

DO...mount the shell on horizontal members at span “S” using compliant vessel supports furnished; Shim saddles if required. Tighten hold down straps just snug

DO...align and center side ports with the manifold header. Correct, causes of misalignment in a row of vessels connected to the same header.

DO...use flexible type IPS grooved-end pipe couplings, or equal, at side ports; allow full, 0.125-inch gap between port and piping, and position piping to maximize flexibility of connection.

DO...provide flexibility in, and support for piping manifolds so that vessel can grow in length under pressure without undue restraint; provide additional flexible joints in large pipes leading to manifold header.

DO... Lubricate seals sparingly, using nonpetroleum Based lubricants, i.e., Parker Super O-lube®, Glycerin or suitable silicone based lubricants.

DO...provide overpressure protection for vessel set at not more than 105% of design pressure.

DO...inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion.

DO NOT...work on any component until first verifying that pressure is relieved from vessel.

DO NOT...make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure.

DO NOT...pressurize vessel until double-checking to verify that the Locking Ring is in place and fully seated.

DO NOT...operate vessel at pressure and temperature in excess of its rating.

DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way.

DO NOT...operate outside the pH range of 3-11.

DO NOT...operate outside the pH range 2-12 for cleaning.

DO NOT...exceed 43.5 hours in a year for cleaning with above mentioned pH range.

ORDERING:

Using the chart below, please check the features you require and fax them with your purchase order to our customer service department for further processing.
For optional materials and / or feature not listed below, please consult the factory for pricing and availability.

VESSEL LENGTH CODE – please check one

MODEL: AquaLine 80CF15 ☐ -40 ☐ -60

CERTIFICATION REQUIRED

- ☐ **Hydro testing at 1.1 times the design pressure.**
☐ **In compliance with the ASME Sec X but not Code Stamped.**
☐ ASME Stamped and National Board Registered.

- ☐ Hydro testing at 1.5 times the design pressure.
☐ CE Marked.

HEAD ASSEMBLY MATERIAL SELECTION

- ☐ **Standard: For 140°F application, Engineering Thermoplastic components in PVC as per drawing on First page.**
☐ Option: For 180°F application, Engineering Thermoplastic components in PET as given below. (Please consult factory as these options will affect pricing and vessel lead-time).

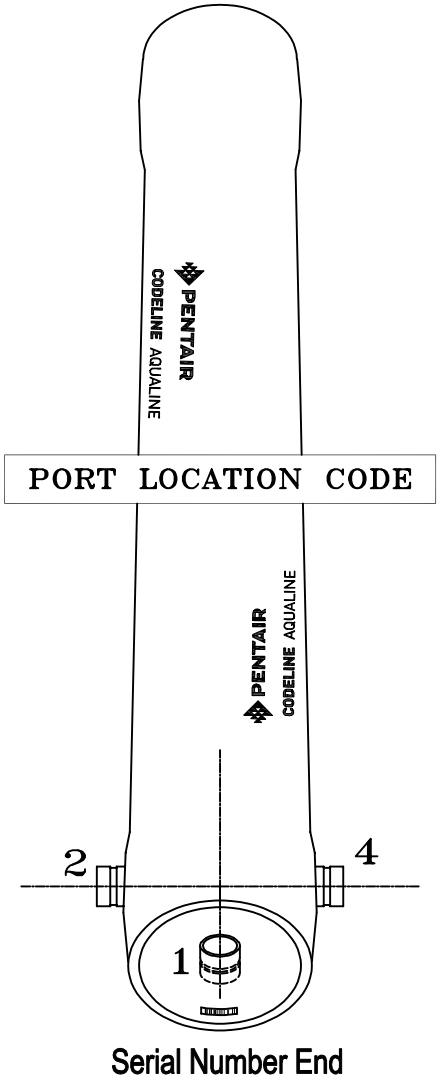
HEAD COMPONENTS FOR 180°F APPLICATION				
DWG REF	QTY	PART NUMBER	DESCRIPTION	MATERIAL
6	1	17433	1/4" FNPT Air Vent Port	SA-479 UNS S32760.
7	2	196208	1/4" Air Vent Port Seal	O - Ring - EPDM
8	1	194942	Bearing Plate Assembly Downstream	
8.1*	1	17179	Bearing Plate Downstream	SB-221 A96061-T6
8.2	1	17198	Danger Label Downstream	-
9	1	117007	Sealing Plate Downstream	Engineering Thermoplastic - Noryl.
10	1	194943	Bearing Plate Assembly Upstream	
10.1*	1	17103	Bearing Plate Upstream	SB-221 A96061-T6
10.2	1	17197	Danger Label Upstream	-
11	1	17453	Sealing Plate Upstream	Engineering Thermoplastic - PET.
12	1	PWG17434	3" Product Port	SA-995 CD3MWCuN (UNS J93380)
13.1	1	17452	3" Product Port Adapter	Engineering Thermoplastic - PET.
13.2	1	17435	Product port holding pin	Engineering Thermoplastic
14	2	17164	3" Seal for Product Port Adapter	O - Ring - EPDM
15	1	17127	3" Port Retaining Ring	SA-479 316
16	2	196223	Head Seal	O - Ring - EPDM
17	1	17128	Product Port Seal	O - Ring - EPDM
18	1	17104	Handle Assembly	SA-479 316
19	1	45247	Plug Retaining Ring	Stainless Steel
20	1	17407	Plug	Engineering Thermoplastic - PET.
21	1	196215	Plug seal	O - Ring - EPDM

FEED PORT CONFIGURATION

Please fill out quantity for each configuration

- ☐ **1A 4G – (Standard)**
☐ 1A 2G – (Optional)
☐ 1A 2G 4G – (Optional)

For complete information on proper use of the vessel
Please refer to the AquaLine User Guide No 97676.



* ASME PARTS.

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PENTAIR
CODELINE AQUALINE

VERNA, GOA
INDIA

DRAWN BY:	AND	DRAWING DESCRIPTION:	DRAWING NO.:	REV.:
DATE:	22SEPT10	MODEL: 80CF15 SINGLE CARTRIDGE HOUSING	17036	T
CHECKED BY:	RD	CUSTOMER NAME:	VESSEL MODEL:	
DATE:	22SEPT10	-	80CF15 (CODED)	
APPROVED BY:	RM	PROJECT NAME:	TOTAL QTY:	
DATE:	22SEPT10	-	-	
ECN NO. :	6649	CUSTOMER P.O.#:	SIZE:	SCALE:
REV. DATE:	07NOV23	-	A3	NONE
				PAGE NO.:
				02 OF 02



ATS WATER
TECHNOLOGY

Head Office: 54/18 Bui Quang La, An Hoi Tay Ward, HCMC, Vietnam
Branch: 77 DHT10B, Dong Hung Thuan Ward, HCMC, Vietnam
Phone: (028) 6258 5368 – (028) 6291 9568
Email: info@atswatertechnology.com
Website: www.atswatertechnology.com