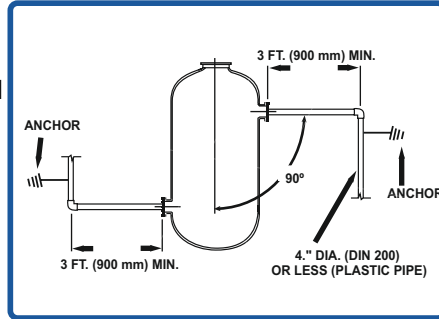


- A) Multiply pressure vessel pressure in psi X 36
- B) Divide above by 150
- C) Result is minimum span of horizontal piping in inches.

For example, if the pressure vessel pressure is 120 PSI

- A) $120 \times 36 = 4,320$
- B) $4,320$ divided by $150 = 28.8$
- C) Minimum span of horizontal piping is 29 inches



OUR PRODUCTS

- RO / NF / UF Membrane
- Water Softeners
- Multiport Valve (Auto & Manual)
- Dosing Pumps
- Katalox light (Iron removal)
- Ion Exchange Resins
- Zeosorb (Replacement of sand)
- I-Soft (Antiscalent)
- Safedef (Fluoride removal)
- Arsenosorb (Arsenic removal)
- MnO₂
- Activated Carbon
- Scale free SOFT NO R



FRP PRESSURE VESSELS

DESCRIPTION

PNS offer BEST IN CLASS FRP vessel applicable for any water or waste water treatment system with PP liner. These vessels are non corrosive and light in weight enabling longer life and easy installation at site. This vessel can be used in wide range of filtration and softening water & waste water applications.

DESIGN FEATURES

1. High performance FRP filament wound outer shell
2. 100% Corrosive Resistance
3. Easy installation & low maintenance
4. Safety factor 4:1
5. Maximum operating pressure 150 PSI
6. Maximum operating temperature 120°F

APPLICATIONS

1. Water treatment plants
2. Commercial softening & filtration
3. Demineralization
4. Iron / Fluoride / Arsenic removal filters
5. Waste water treatment plants

ADVANTAGES

1. High abrasive resistance
2. Unique designed
3. High performance over price ratio
4. Good heat insulating property

*Other color options are also available for bulk quantity.



Natural Green Grey Black



Tel No : +91-41106124,45066467.
Email Id : info@purensafe.com / Website : www.purensafe.com

FRP PRESSURE VESSELS

* Other sizes are available as per the requirement

Size	Volume		Size (mm)	Opening		Base	Dimensions (mm)		
	Liter	Cu. Ft		Top	Bottom		A	B	C
8 X 44	32.2	1.19	Φ 200 X 1115	2.5" 8-NPSM	-	Standard	1138	-	210
10 X 54	62.9	2.33	Φ 250 X 1370	2.5" 8-NPSM	-	Standard	1395	-	261
12 X 48	78	2.92	Φ 300 X 1005	2.5" 8-NPSM	-	Standard	1255	-	312
13 X 54	100	3.70	Φ 330 X 1370	2.5" 8-NPSM	-	Standard	1380	-	335
14 X 65	148	5.54	Φ 350 X 1620	4" 8-UN	-	Standard	1661	-	355
14 X 65	148	5.54	Φ 350 X 1620	4" 8-UN	4" 8-UN	Tripod	1661	210	355
16 X 65	194	7.16	Φ 400 X 1650	4" 8-UN	4" 8-UN	Tripod	1661	225	406
16 X 65	194	7.16	Φ 400 X 1650	4" 8-UN	-	Standard	1661	-	406
18 X 65	228.4	8.45	Φ 450 X 1550	4" 8-UN	4" 8-UN	Tripod	1715	230	463
20 X 69	283	10.47	Φ 500 X 1750	4" 8-UN	4" 8-UN	Tripod	1780	185	510
24 X 72	428	15.84	Φ 600 X 1800	4" 8-UN	4" 8-UN	Tripod	1910	215	611
30 X 72	621	22.98	Φ 750 X 1800	4" 8-UN	4" 8-UN	Tripod	1940	220	750
36 X 72	1071	39.63	Φ 900 X 51800	4" 8-UN	4" 8-UN	Tripod	2150	350	900
40 X 72	1216	44.99	Φ 1000 X 1800	6" Flange	6" Flange	Tripod	2150	350	1000
42 X 72	1490	55.13	Φ 1050 X 1800	6" Flange	6" Flange	Tripod	2270	315	1050
48 X 72	1893	70.04	Φ1200 X 1800	6" Flange	6" Flange	Tripod	2200	400	1200

SAFETY INSTRUCTION

IMPORTANT

For your safety, please read the entire installation manual carefully.

A Pressure vessel with an integral Fiberglass base should be placed in a vertical upright position.

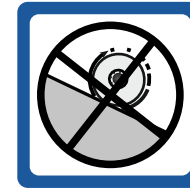
BASIC HANDLING RULES

This guide is designed to help install pressure vessels properly. Improper handling or installation can result in damage or pressure vessel failure.

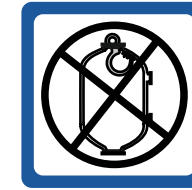
- Pay attention to protection during transportation and installation of Fiberglass composite Pipe Fittings, and do not damage the body and components.
- If the glass fiber reinforced plastic purification tower is installed and working outdoors, pay attention to the freezing prevention of the bottom pool in winter.
- Due to the flammability of general FRP, the use of open flame is strictly prohibited during the installation and maintenance of the acid mist purification tower. Each flange ensures sealing to prevent gas escape and liquid leakage.



DO NOT DROP
ON HARD SURFACE



DO NOT ROLL
OR SLIDE



DO NOT USE
HOOKS



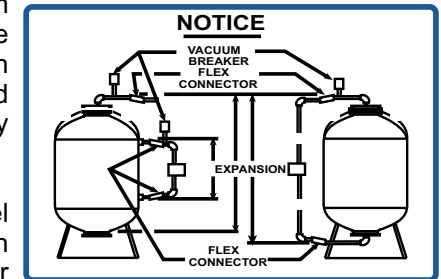
DO NOT USE
CHAINS / ROPE

INSTALLATION INSTRUCTIONS

When delivered, the pressure vessel should be in a horizontal position. The first step is to stand the whole assembly upright. All precaution should be observed to protect the pressure vessel from damage.

VACUUM PROTECTION FLEX CONNECTORS

The pressure vessel is rated for an internal negative pressure of 5" Hg (17 Pa) vacuum below atmospheric. If negative pressure could ever exceed 5" Hg (17 Pa), an adequate vacuum breaker must be installed between the pressure vessel inlet and any valves, as shown here.

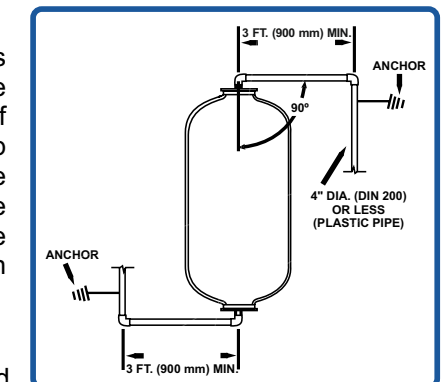


System connection to the pressure vessel must accommodate vertical expansion between side, top & bottom openings. Either flexibility in piping or flex connectors as shown here are recommended.

Flex connectors and Vacuum Breakers are available from Pure N Safe

FLEXIBILITY IN PIPING

An effective alternative to flex connectors uses the inherent flexibility of right angle system design. By calculating the amount of cantilever overhang needed to absorb the torsional effect created by the pressure vessel's vertical movement, it is possible to build the needed flexibility right into the piping system. This can be done with both top / bottom and side flow piping setups.



The figure shown here are the acceptable minimum for the pressure vessel at its rated pressure of 150 psi. When using the pressure vessel at a lower pressure, the minimum pipe run length can be reduced, using this formula :