

PRECISION UNDER PRESSURE



Sediment Filtration:

Removes suspended solids and particulate matter.

Activated Carbon Filtration:

Adsorbs chlorine, organics, and unpleasant odors or tastes for improved water quality.

Ion Exchange:

Facilitates softening and demineralisation by exchanging ions such as calcium and magnesium.

Water Softening:

Addresses nitrate reduction and minimizes hardness in water.

Mixed Bed Demineralisation:

Adds minerals back into treated water to help balance its pH and prevent corrosion.

Iron and Manganese Removal:

Uses a catalytic process to oxidise and remove dissolved iron and manganese from water

Multi-Media Filtration:

Enhances filtration efficiency by using layers of media to target different impurities.



**Tank with
High Strength**



**Tested upto 2,50,000 Cycle
without leakage**



Oven Cured Vessel



**Maximum Burst
at 200psi**



**Corrosion
resistant**



**Anti-ultraviolet
Performance**



DESCRIPTION

The premium quality Composite Pressure Vessels are applicable for practically any water treatment application. The FRP windings provide strength to withstand pressures as high as 10 kg/cm² without any structural damage. The vessels are immune to most chemicals ensuring corrosion free and cost-efficient solutions for water treatment.

- Threaded inlet closures & reducers available
- Flange adapters & reducers available
- 14"-48" vessels available with top & bottom opening
- 10"-16" vessels available with top opening

DESIGN FEATURES

- Constructed from high-performance composite material featuring an LLDPE inner liner and filament-wound FRP outer shell.
- Oven-cured for superior structural integrity, dimensional stability, and long-term performance.
- 100% corrosion-resistant for enhanced durability in aggressive environments.
- Seamless inner liner with a solid anodized aluminum cast flange ensures long-term leak-free operation.
- GF PP (Glass-Filled Polypropylene) inlet provides enhanced strength and increased resistance to high temperatures and pressures.
- Robust composite construction offers exceptional strength, durability, and leak-proof performance.
- Tested for 2,50,000 pressure cycles from 10 to 150 psi, ensuring unmatched reliability under fluctuating conditions.
- UV-resistant and algae-resistant exterior for long-lasting performance in outdoor installations.
- Engineered for easy and quick installation.
- Designed for minimal maintenance requirements.

APPLICATIONS

Applicable for varied water treatment processes, the Composite Pressure Vessels are available in sizes for residential, commercial and industrial applications.

TECHNICAL SPECIFICATIONS

- Operating Temperature - 49⁰ C for threaded tanks and 65⁰ C for flange tanks
- Operating Pressure 150psi (10.5kg f/cm²)
- Maximum Diameter - 48"
- Maximum Height - 72"

GAT PURE

PRESSURE VESSEL

Complete range of top & bottom distribution collection systems



We are manufacturing quality proven range of distribution system for all types of filters, softeners and demineralization plants. That is used for uniform collection of the feed water owing to its larger area of collection.

Our distribution system are suitable for any type of FRP pressure vessels with varying diameters in the range of 12" to 63". These systems feature chemical and impact resistance for a variety of applications. They can be used for standard openings of 4" threaded and 6" flanged, for top only and both top & bottom openings.

These distribution system are constructed using high grade material and fitted with world class components to make sure that they work efficiently at client's end. These power distribution systems yield higher efficiency and have longer life.

These distribution systems are easy to assemble and install. Systems are integrated with perforated pipe lateral that allow easy channeling of water flow. Available in varied specifications, these systems allow uniform distribution of the backwash water and air.

- Threaded Top refers to vessels with a single threaded opening at the top.
- Threaded Top/Bottom models have openings at both ends for vessels mounting.
- Flange Type Top/Bottom models are designed for high-capacity applications with secure bolted connections.
- All models are rated for a pressure of 10 Bar.

Vessel in Inches	Opening	Volume in Litres	Specification	Base
8x44	TOP	34	2.5" Socket	Standard
10x54	TOP	65	2.5" Socket	Standard
12X48	TOP	90	2.5" Socket	Standard
13X54	TOP	110	2.5" Socket	Standard
14X65	TOP	155	4" Socket	Standard
14X65	T&B	155	4" Socket	Tripod
16X65	TOP	200	4" Socket	Standard
16x65	T&B	200	4" Socket	Tripod
18X65	TOP	248	4" Socket	Standard
18X65	T&B	248	4" Socket	Tripod
21X62	T&B	317	4" Socket	Tripod
24X72	T&B	475	4" Socket	Tripod
30X72	T&B	748	4" Socket	Tripod
36X72	T&B	1051	4" Socket	Tripod
42X72	T&B	1268	6" Flange	Tripod
48X72	T&B	1636	6" Flange	Tripod



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