

# JESS COMPOSITE



**FRP/GRP  
PRESSURE VESSELS**

**JESS INDUSTRIES**

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## FRP Composite Vessel

[ HYDRAULICALLY EFFICIENT AND CORROSION RESISTANCE PRESSURE VESSEL FOR WATER FILTRATION TECHNOLOGIES ]

Our filament wound fiber glass reinforced plastic pressure vessel is the material of choice for commercial and industrial water treatment system. The FRP vessel comprise of either a high grade corrosion resistant FRP or a poly ethylene liner (corrosion barrier) for all standard water treatment application including deionization and offers a wide chemical resistance , outstanding performance and durability in harsh chemical environment impact and weather resistant structural laminate perception molded threaded tank openings and supported with FRP support base (tripod/skirt) stand capable of bearing complete load.

MODEL	A Diameter (mm)	B Height W/O Base (mm)	C Height W/ Base (mm)	Threaded Opening (Inches)	Volume (Liters)
6 x 24	150	610	710	2.5" Top	6.7
6 x 35	150	890	1016	2.5" Top	13.7
7 x 35	183	890	1016	2.5" Top	19.1
8 x 44	206	1115	1130	2.5" Top	33.0
10 x 54	257	1375	1390	2.5" Top	62.0
12 x 48	308	1220	1240	2.5" & 4" Top	74.0
13 x 54	334	1370	1390	2.5" & 4" Top	104.0
14 x 65	360	1620	1640	2.5" & 4" Top	154.0
16 x 65	410	1620	1640	4" Top/ Bottom	185.0
18 x 65	470	1665	1902	4" Top/ Bottom	253.0
20 x 69	510	1760	1890	4" Top/ Bottom	354.0
21 x 62	550	1600	1842	4" Top/ Bottom	333.0
24 x 72	620	1800	2042	4" Top/ Bottom	400.0
30 x 72	775	1800	2054	4" Top/ Bottom	740.0
36 x 72	925	1800	2145	4" Top/ Bottom	1071.0
42 x 72	1075	1800	2148	6" Flange Top/ Bottom	1304.0
48 x 72	1225	1800	2105	6" Flange Top/ Bottom	1808.0
54 x 72	1378	1800	2148	6" Flange Top/ Bottom	2240.0
60 x 72	1530	1800	2153	6" Flange Top/ Bottom	2756.0
48 x 96	1225	2400	2695	6" Flange Top/ Bottom	3626.0
65 x 110	1640	2800	3175	6" Flange Top/ Bottom	4883.0
80 x 72	2040	1800	2210	6" Flange Top/ Bottom	4900.0

FRP Vessels are also available with Top/ Bottom opening, Manhole, Handhole, Bed Plate and Lateral Header distribution system and also as per the design of the client.

## Operating Parameters

1. Maximum operating pressure : 150 psi / 10 bar
2. Maximum operating temperature : 150° F / 65°C
3. Vacuum Maximum : 127 mm Hg

## Design Parameters

[ ASME Standard ]

### Safety Factor:

5:1 Top Bottom flange (Min burst at 750 psi/ 52 bar)

6:1 Side flange (Min burst at 900 psi/ 62 bar)

### Cycle Test:

33000 without leakage ( Top Bottom flange)

100000 without leakage (Side flange)

