

# VERTICAL LINED FRAC TANK

## 350 bbl

**350 BBL Sloped-Bottom Upright Tank designed to decrease footprint space and can be transported on public roads without permits**

### Technical Data

Capacity	350 BBL (14,700 gal.)
Overall Height	28'-6" (base to top lifting eye)
Transport Width	8'-½"
Tank Footprint	12 x 8'-½"
Weight	14,900 lbs (empty)

### Structural Design

Tank Construction	¼" thick Carbon Steel
Piping	Carbon Steel
Uprighting Connections	Four (4) heavy duty steel lifting lugs on top of tank
Max Wind Loading (Unanchored)	90 MPH (empty); 180 MPH @ 84% full



### Features

Ladder	One ladder from base to top of tank, bridged between the tank and the transport skid.
Transport Skid	Remains fixed to the tank in the vertical orientation. Width allows for public road transport without obtaining oversize permit.
Pressure/Vacuum Relief Valve	16 oz./in <sup>2</sup> pressure setting, 0.4 oz./in <sup>2</sup> vacuum setting; Viton seal.
Manways	One (1) 22" heavy-duty steel manway located on top of tank with Buna-N seal, and one (1) 22" heavy-duty steel manway located on side of tank near the bottom with Buna-N seal.
Fill Pipes	One (1) 4" and one (1) 6" external downcomers from top of tank to capped connections at the bottom approximately 5' above grade
Bottom Process Connections	Three (3) 4" flanged nozzles with butterfly valves at 14" above tank floor and one (1) 4" flanged nozzle with butterfly valve above tank floor.
Bottom Drain	One (1) 4" flanged nozzle with butterfly valve. Tank floor is sloped to the drain.
Additional Pipe Connection	Two (2) 8" flanged openings, one on each side of the tank; One (1) 4" NPT plugged roof penetration.
Rigging Connections	Connections are provided for lifting the tank off the transport vehicle, and for uprighting the tank. Forklift pockets are also provided in the skid frame.
Interior Lining	Epoxy Novolac
Level Indication	<ul style="list-style-type: none"> <li>One (1) 2" vapor tight PVC sight tube</li> <li>One (1) 3-1/2" vapor tight polycarbonate tube in conjunction with a labeled sight board (50 BBL increments)</li> </ul>

## Vertical Tank Wind Loading

Maximum wind speed without anchorage (*Tank/sled, partial full*)

Wind Speed (mph)	Minimum Liquid Level (ft)	Percent of design liquid level	Wind Speed (mph)	Minimum Liquid Level (ft)	Percent of design liquid level
95	0.00	0.0%	140	7.14	28.0%
100	0.25	1.0%	145	9.14	35.8%
105	0.56	2.1%	150	11.74	46.0%
110	1.07	4.2%	155	15.24	59.7%
115	1.68	6.6%	160	16.40	64.3%
120	2.40	9.4%	165	17.60	69.0%
125	3.26	12.8%	170	18.84	73.9%
130	4.30	16.9%	175	20.11	78.9%
135	5.57	21.8%	180	21.42	84.0%

