



# STRUCTURAL

Pentair Water



## COMPOSITE PRESSURE VESSELS

COMPOSITE VS. STEEL



### Global Leaders in Composite Pressure Vessel Technology

The non-corrosive, cost-effective solution for commercial/industrial water treatment and storage

### STRUCTURAL® TECHNOLOGY AND MANUFACTURING PROCESSES

Our exclusive, patented manufacturing process creates a seamless polyethylene shell that is wound continuously with fiberglass roving and sealed with epoxy resin. This process results in a corrosion-resistant, leak-free vessel. Computer-aided winding machines and other customized equipment are used to produce a tank that offers outstanding performance and durability.

### APPLICATIONS

Composite Pressure Vessels are used for large commercial and industrial applications such as:

- Softening
- Filtration
- Storage

### WHY CUSTOMERS SPECIFY STRUCTURAL

- Trusted performance
- High quality products
- Unparalleled customer support
- Rapid delivery

# COMPOSITE PRESSURE VESSELS

## SPECIFICATIONS

DESCRIPTION	OPENING	OPERATING PRESSURE (PSI/BAR)	HEIGHT W/ BASE (IN/MM) <sup>1</sup>	HEIGHT W/O BASE (IN/MM) <sup>1</sup>	DIAMETER (IN/MM) <sup>2</sup>	CAPACITY (GAL/LITER)	BASE	WEIGHT W/ BASE (LBS/KG) <sup>3</sup>
18 x 65	4" T	150/10.34	66.25/1682.0	65.00/1651.0	18.65/473.8	64/242.0	SMC	67/30.4
18 x 65	4" TB	150/10.34	73.13/1857.5	65.63/1667.0	18.65/473.8	64/242.0	SMC EXT	67/30.4
21 x 62	4" T	150/10.34	67.13/1705.0	63.50/1612.9	22.00/558.8	84/318.0	SMC	95/43.1
21 x 62	4" TB	150/10.34	72.75/1847.9	63.50/1612.9	21.75/552.5	84/318.0	SMC EXT	95/43.1
24 x 72	4" T	150/10.34	74.66/1896.3	70.60/1793.2	24.25/616.0	118/446.7	SMC	109/49.4
24 x 72	4" TB	150/10.34	80.42/2042.7	70.30/1785.6	24.60/624.8	119/450.5	SMC EXT	124/56.2
24 x 72	6" TBF	150/10.34	88.50/2247.9	74.50/1892.3	24.20/614.7	119/450.5	TRIPOD	137/62.1
30 x 60	6" TF	150/10.34	71.63/1819.4	64.34/1634.2	30.20/767.0	151/571.6	SMC EXT	185/83.9
30 x 60	6" TBF	150/10.34	82.50/2095.5	68.50/1739.9	30.20/767.0	151/571.6	TRIPOD	185/83.9
30 x 72	4" TB	150/10.34	78.90/2004.1	70.40/1788.2	30.07/763.8	187/707.9	SMC EXT	198/89.8
30 x 72	6" TBF	150/10.34	88.90/2258.1	74.90/1902.5	30.20/767.1	187/707.9	TRIPOD	211/95.7
36 x 72	4" TB	150/10.34	80.50/2004.7	70.50/1790.7	36.00/914.4	264/999.3	SMC EXT	285/129.3
36 x 72	6" TBF	150/10.34	90.39/2295.9	76.14/1933.9	36.12/917.4	264/999.3	TRIPOD	285/129.3
42 x 72	6" TF	150/10.34	72.52/1842.0	71.14/1807.0	42.25/1073.2	345/1306.0	SMC LOW	370/168.0
42 x 72	6" TBF	150/10.34	90.12/2289.0	73.00/1854.2	42.25/1073.2	345/1306.0	TRIPOD	400/181.0
48 x 72	6" TF	150/10.34	81.54/2071.2	75.16/1909.1	48.25/1225.6	463/1753.0	SMC LOW	494/224.0
48 x 72	6" TBF	150/10.34	92.90/2359.7	76.90/1953.3	48.25/1225.6	463/1753.0	TRIPOD	494/224.0
63 x 67	6" TBF	150/10.34	81.41/2067.8	67.10/1704.3	64.00/1625.7	600/2271.0	TRIPOD	680/308.0
63 x 67	16" TMY, 6" BF	150/10.34	82.24/2088.9	67.80/1722.1	64.00/1625.7	600/2271.0	TRIPOD	680/308.0
63 x 86	6" TBF	150/10.34	98.54/2502.9	84.10/2136.1	64.00/1625.7	900/3407.0	TRIPOD	950/431.0
63 x 86	16" TMY, 6" BF	150/10.34	98.94/2513.1	84.50/2146.3	64.00/1625.7	900/3407.0	TRIPOD	950/431.0
63 x 116	16" TMY, 6" BF	150/10.34	130.44/3313.2	116.00/2946.4	64.00/1625.7	1250/4732.0	TRIPOD	1190/540.0
63 x 144	16" TMY, 6" BF	150/10.34	160.18/4068.6	145.50/3695.7	64.50/1638.3	1600/6057.0	TRIPOD	1398/634.0

<sup>1</sup> Height Tolerance is +/- 1.00in/ 25.4 mm

<sup>2</sup> Diameter Tolerance is +/- .50in/ 12.7 mm

<sup>3</sup> Product Weight - Contact customer service for shipping weight

Note: ASME Code available on flanged tanks 18" to 48" in diameter

## COMPOSITE VESSEL BENEFITS OVER STEEL TANKS

Steel Tanks	STRUCTURAL Composite Vessels
Very heavy and difficult to handle thus involves higher labor cost to install	60% lighter than steel and easier to handle thus lower installation costs
Corrode and rust over a period of time	Corrosion-resistant both inside and out
Lining has to be periodically treated	Low maintenance
Painting and coating have to be undertaken regularly	Natural fiberglass shell never fades or changes color; colored shells recommended for UV protection

## COMPOSITE VESSELS: LOWER TOTAL OPERATION COSTS VERSUS STEEL TANKS

