

STRUCTURAL COMPOSITE PRESSURE VESSELS

DESIGNED FOR COMMERCIAL SOFTENING AND FILTRATION APPLICATIONS



FEATURES • BENEFITS

- ◆ For commercial and industrial water treatment and storage
- ◆ 100% composite fiberglass construction
- ◆ Outstanding performance and durability in harsh chemical environments
- ◆ Capacities up to 1,600 gallons
- ◆ Factory-backed five-year warranty
- ◆ Commercial softening and filtration
- ◆ ASME code available

MATERIAL OF CONSTRUCTION

- ◆ Polyethylene inner shell

PENTAIR DESIGN PARAMETERS

- ◆ Safety factor – 4:1
- ◆ Minimum burst at 600 psi
- ◆ Tested to 250,000 cycles without leakage

INSTALLATION TIPS

- ◆ Bolt base to floor
- ◆ Calculate height for valve and base combined

COLOR OPTIONS

- ◆ BK – Black
- ◆ NA – Natural

OPERATING PARAMETERS

- ◆ Maximum operating pressure – 150 psi
- ◆ Maximum operating temperature – 120°F (threaded); 150°F (flanged)
- ◆ ASME Section X Code Vessels Available



Tested and Certified by the Water Quality Association against NSF Std. 61 for Material Safety Section 8 and NSF std. 372 for Low Lead Compliance.

Tested under domestic cold: $23 \pm 2^{\circ}\text{C}$ ($73 \pm 4^{\circ}\text{F}$).

STRUCTURAL COMPOSITE PRESSURE VESSELS

SPECIFICATIONS

VESSEL	DESCRIPTION	HEIGHT W/BASE (INCHES / MM)	HEIGHT W/O BASE (INCHES / MM)	CAPACITY (GALLONS / LITERS)	CUBIC FEET	BASE	SHIP WEIGHT LBS.
18" Dia.	18" x 65" COMP 4"T	67 / 1702	65.7 / 1669	64 / 242	8.56	SMC	67
21" Dia.	21" x 62" COMP 4"T	67 / 1702	63.4 / 1610	84 / 318	11.23	SMC	95
24" Dia.	24" x 65" COMP 4"T	65.2 / 1656	61.1 / 1552	100 / 379	13.37	SMC	109
	24" x 65" COMP 6"TF 6"BF	79 / 2007	65 / 1651	100 / 379	13.37	TRIPOD	124
	24" x 72" COMP 4"T	74.19 / 1884	70.12 / 1781	118 / 447	15.77	SMC	109
	24" x 72" COMP 4"T 4"B	80.4 / 2042	70.3 / 1786	119 / 450	15.91	SMC EXT	124
	24" x 72" COMP 6"TF	77 / 1956	73.4 / 1864	119 / 450	15.91	SMC	137
	24" x 72" COMP 6"TF 6"BF	88.5 / 2248	74.5 / 1892	119 / 450	15.91	TRIPOD	147
30" Dia.	30" x 72" COMP 4"T	78.9 / 2004	69.8 / 1773	187 / 708	25.00	SMC EXT	198
	30" x 72" COMP 4"T 4"B	77.2 / 1961	69.8 / 1773	187 / 708	25.00	SMC EXT	205
	30" x 72" COMP 6"TF	79.73 / 2025	70 / 1778	187 / 708	25.00	SMC EXT	195
	30" x 72" COMP 6"TF 6"BF	88.24 / 2241	74.67 / 1897	187 / 708	25.00	TRIPOD	211
36" Dia.	36" x 57" COMP 6"TF	68 / 1727	59.3 / 1506	205 / 776	27.40	SMC EXT	195
	36" x 57" COMP 6"TF 6"BF	77.3 / 1963	63 / 1600	205 / 776	27.40	TRIPOD	225
	36" x 72" COMP 4"T	80.4 / 2042	71.8 / 1824	264 / 999	35.29	SMC EXT	264
	36" x 72" COMP 4"T 4"B	80.4 / 2042	70.5 / 1791	264 / 999	35.29	SMC EXT	285
	36" x 72" COMP 6"TF	82.29 / 2090	73.54 / 1868	264 / 999	35.29	SMC EXT	295
	36" x 72" COMP 6"TF 6"BF	90.1 / 2289	76.2 / 1935	264 / 999	35.29	TRIPOD	305
	36" x 72" COMP 6"TF 6"BF 4"TBSF	89.6 / 2276	75.3 / 1913	264 / 999	35.29	TRIPOD	315
42" Dia.	42" x 72" COMP 6"TF	72.5 / 1842	71.1 / 1806	345 / 1306	46.12	SMC SHORT	370
	42" x 72" COMP 6"TF 6"BF	90.1 / 2289	73 / 1854	345 / 1306	46.12	TRIPOD	400
	42" x 72" COMP 6"TF 6"BF 4"TBSF	94.6 / 2403	77.5 / 1969	345 / 1306	46.12	TRIPOD	415
48" Dia	48" x 72" COMP 6"TF	81.5 / 2070	75.2 / 1910	463 / 1753	61.89	SMC SHORT	494
	48" x 72" COMP 6"TF 6"BF	91.91 / 2335	76 / 1930	463 / 1753	61.89	TRIPOD	500
	48" x 72" COMP 6"TF 6"BF 4"TBSF	96.75 / 2457	80.75 / 2051	463 / 1753	61.89	TRIPOD	504
63" Dia.	63" x 67" COMP 6"TF 6"BF	81.5 / 2070	67.1 / 1704	600 / 2271	80.21	TRIPOD	680
	63" x 86" COMP 6"TF 6"BF	98.88 / 2512	84.5 / 2146	865 / 3274	120.31	TRIPOD	950
	63" x 86" COMP 16"TMWY 6"BF	99 / 2515	84.5 / 2146	865 / 3274	120.31	TRIPOD	950
	63" x 86" COMP 16"TMWY 6"BF 4"TBSF	99 / 2515	85 / 2159	865 / 3274	120.31	TRIPOD	960
	63" x 144" 16"TMWY 6" BF	158 / 4013	144 / 3658	1600 / 6057	213.89	TRIPOD	1398

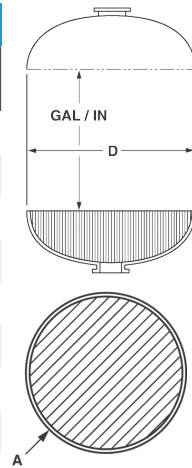
Measurements are subject to change without notice and are for reference only.

NOTE: Flexible connections must be installed between hard piping and tank openings. Failure to install flex connection properly with the vessel will void the warranty.

NOTE: Different base options can be selected on different tank diameters. The bases selected above illustrate most common base selection.

DOME VOLUME (GALLONS) AND STRAIGHT WALL GALLON PER INCH

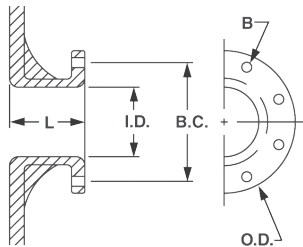
NOMINAL DIAMETER			
D (INCHES)	GALLONS* (ONE DOME)	GALLON/INCH (APPROX.)	A (SQ. FEET)
12"	1.0	0.5	0.7
13"	1.4	0.5	0.9
14"	1.7	0.6	1.1
16"	2.7	0.8	1.3
18"	3.7	1.0	1.8
21"	6.2	1.4	2.4
24"	9.3	1.9	3.0
30"	18	2.9	4.6
36"	33	4.2	6.7
42"	52	5.7	9.0
48"	74	7.5	12.0
63"	168	13.0	20.0



*Cubic Ft. = 0.1337 x Gallons

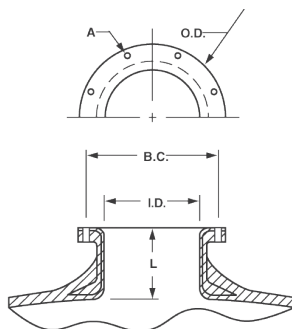
SIDE FLANGE

DIMENSIONS							
SIZE (INCHES)	L	I.D.	B.C.	O.D.	A BOLT DIA.	NUMBER OF HOLES	WEIGHT (LBS.)
4" ANSI	4.1"	4.0"	7.5"	9.0"	0.63"	8	6.4

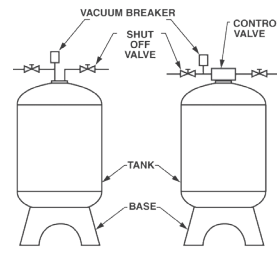


TOP AND BOTTOM OPENING FLANGES/MANWAY

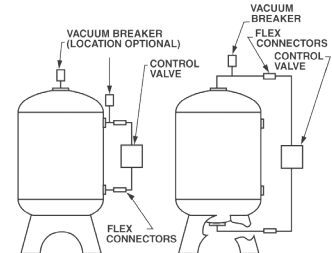
DIMENSIONS							
SIZE (INCHES)	L	I.D.	B.C.	O.D.	A BOLT DIA.	NUMBER OF HOLES	WEIGHT (LBS.)
6" SNA	3.6"	5.9"	8.5"	9.4"	0.31"	12	5.8
16" Manway SNA	4.3"	16.0"	20.4"	21.3"	0.50"	24	34.0



VACUUM BREAKER INSTALLATION



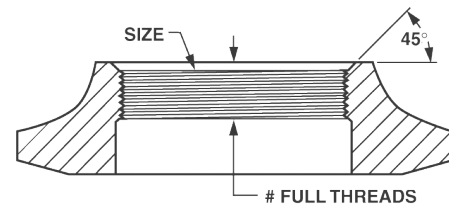
FLEX CONNECTORS INSTALLATION



NOTE: Flexible connectors must be installed between hard piping and tank openings. These pressure vessels are treated for an internal negative pressure of 5y HG (17 Pa) vacuum below atmospheric. If negative pressure could ever exceed 5y HG (17 Pa), an adequate vacuum breaker must also be properly installed. Failure to install flex connection properly, or improper installation of a vacuum breaker when required, may void the warranty.

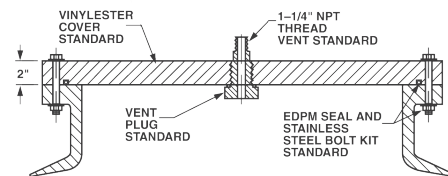
TOP AND BOTTOM OPENING THREADS

SPECIFICATIONS			
SIZE (INCHES)	COMPOSITE/POLY GLASS	NUMBER OF FULL THREADS	COMPOSITE
4" - 8" UN	7	3 min	7



MANWAY COVER

SPECIFICATIONS		
MATERIAL	PRESSURE RATING	TAPPING
CPVC	100 psi	As requested
VE	150 psi	As shown only



ADDER DIMENSIONS

DIMENSIONS		
FLECK VALVE	TANK DIA. (INCHES / MM)	ADDER HT. (X) (INCHES / MM)
2750	18 / 475	6.5 / 165
2850	21 / 533	6.5 / 165
2900	24, 30 / 610, 762	12 / 305
3150	42 / 1067	10 / 254
3900	48-63 / 1219-1600	15 / 381



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