

# FRP Vessels

The ideal choice for residential and light commercial water treatment applications that require flexibility.

Improve your water treatment system with Structural FRP vessels. Easy to handle and install, FRP vessels are available in standard polyester or chemical-resistant vinylester construction depending on your needs.

Exclusive warranties apply as follows:

- 10 years on 6"-13" vessels used for softener/filtration applications
- 5 years on 14"-16" vessels used for softener/filtration applications
- 2 years for all vinylester vessels used for deionization applications



6"-13" - 10 years from date of manufacture

14"-16" - 5 years from date of manufacture

All FRP tanks are warranted to be free from defects in materials and workmanship for a period of 5/10 years from the date of manufacture (see above) if the vessel is operated within the prescribed pressure and temperature ratings stated on the tank label.

Not covered by this warranty is damage resulting from freezing, external impact, chemical attack from liquid and gasses, exposure to vacuum, natural disasters, or other applications of the product beyond residential water softeners and filters.

### Material of construction

Material:  
Polyester, Vinylester  
Available inlets:  
See chart

### Operating parameters

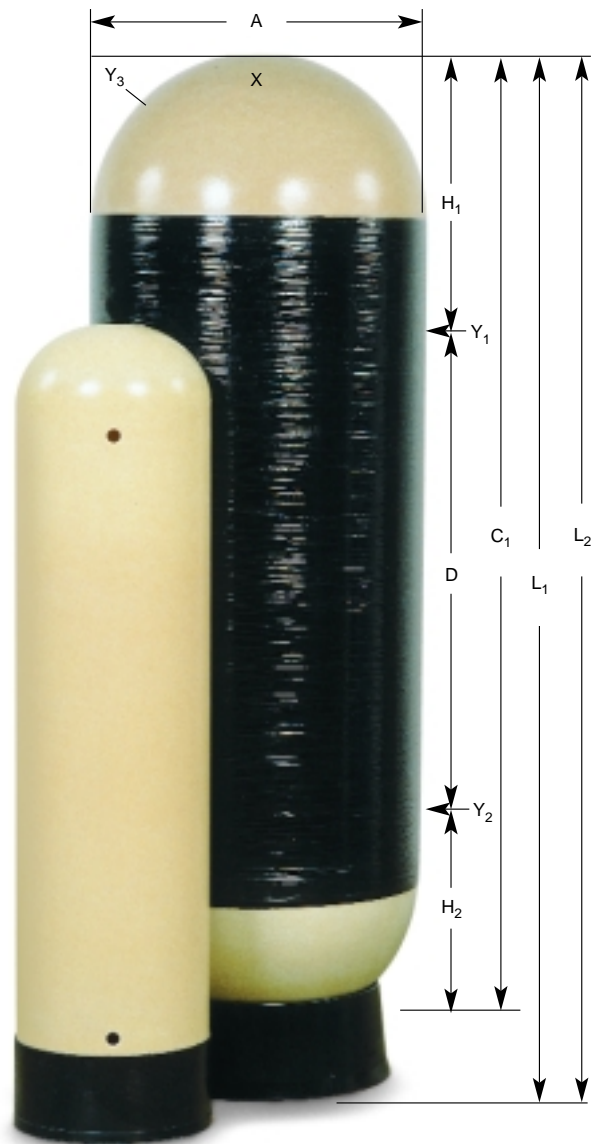
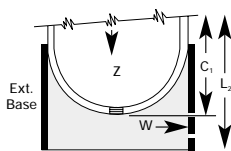
Maximum operating pressure:  
150 psi  
Maximum operating temperature:  
120° F Polyester  
150° F Vinylester

### Design parameters - Pentair

Safety factor:  
4:1 (Minimum burst at 600 psi)  
Cycle test:  
250,000 cycles without leakage

### Design parameters - NSF

Safety factor:  
4:1 (Minimum burst at 600 psi)  
Cycle test:  
100,000 cycles without leakage



Standard Vessel Openings

Nominal Diameter		Top	Bottom	Sidewall	Dome
Inches	mm	X	Z	Y <sub>1</sub> and Y <sub>2</sub>	Y <sub>3</sub>
6	152	2 1/2" - 8 NPSM	1" or 2 1/2"	3/4"	3/4"
7	178	2 1/2" - 8 NPSM	1" or 2 1/2"	3/4"	3/4"
8	203	2 1/2" - 8 NPSM	1" or 2 1/2"	3/4" or 1"	3/4"
9	229	2 1/2" - 8 NPSM	1" or 2 1/2"	3/4" or 1"	1 1/4"
10	254	2 1/2" - 8 NPSM or 4" - 8 UN	1", 2 1/2" or 4"	3/4" or 1"	1 1/4"
12	305	2 1/2" - 8 NPSM or 4" - 8 UN	2 1/2" or 4"	3/4" or 1"	1 1/4"
13	330	2 1/2" - 8 NPSM or 4" - 8 UN	2 1/2" or 4"	3/4" or 1"	1 1/4"
14	356	4" - 8 UN	4" or 6"	3/4" - 1 1/2"	1 1/4"
16	406	4" - 8 UN or 6" - 8 UN	4" or 6"	1", 1 1/2" or 2"	1 1/4"

# FRP Specifications

Size (Inches)	Capacity Gallons	Liters	Cubic Feet	Tank Diameter A (In./mm)	Tank Height C1 (In./mm)	Overall Height		D (In./mm)	Dimensions	
						L1 Std. Base (In./mm)	L2 Ext. Base (In./mm)		H1 (In./mm)	H2 (In./mm)
6 x 13	1.6	6.1	0.2	6.0 / 152	16.0 / 406	12.8 / 325	18.7 / 475	6.0 / 152	3.1 / 79	3.5 / 89
6 x 18	2.3	8.7	0.3	6.0 / 152	18.0 / 457	18.1 / 460	24.0 / 610	9.4 / 239	4.1 / 104	4.5 / 114
6 x 32	3.8	14.4	0.5	6.0 / 152	32.0 / 813	32.2 / 818	38.1 / 968	23.4 / 594	4.1 / 104	4.5 / 114
6 x 35	4.4	16.7	0.6	6.0 / 152	35.0 / 889	35.1 / 892	41.0 / 1041	26.4 / 671	4.1 / 104	4.5 / 114
7 x 22	3.5	13.3	0.5	7.0 / 178	22.0 / 559	22.2 / 564	28.0 / 711	13.1 / 333	4.9 / 124	4.1 / 104
7 x 24	3.8	14.4	0.5	7.0 / 178	24.0 / 610	24.1 / 612	30.0 / 762	15.1 / 384	4.9 / 124	4.1 / 104
7 x 30	4.8	18.2	0.6	7.0 / 178	30.0 / 762	30.2 / 767	36.0 / 914	21.1 / 536	4.9 / 124	4.1 / 104
7 x 35	5.7	21.6	0.8	7.0 / 178	35.0 / 889	35.1 / 892	40.9 / 1039	26.0 / 660	4.9 / 124	4.1 / 104
7 x 40	6.6	25.0	0.9	7.0 / 178	40.0 / 1016	40.2 / 1021	46.0 / 1168	31.1 / 790	4.9 / 124	4.1 / 104
7 x 44	7.3	27.6	1.0	7.0 / 178	44.0 / 1118	44.4 / 1128	50.2 / 1275	35.3 / 897	4.9 / 124	4.1 / 104
8 x 17	3.1	11.7	0.4	8.0 / 203	17.0 / 432	17.2 / 437	23.0 / 584	7.2 / 183	5.3 / 135	4.4 / 112
8 x 22	4.3	16.3	0.6	8.0 / 203	22.0 / 559	22.8 / 579	28.6 / 726	12.8 / 325	5.3 / 135	4.4 / 112
8 x 24	4.6	17.4	0.6	8.0 / 203	24.0 / 610	24.3 / 617	30.1 / 765	14.3 / 363	5.3 / 135	4.4 / 112
8 x 30	6.0	22.7	0.8	8.0 / 203	30.0 / 762	30.2 / 767	36.0 / 914	20.2 / 513	5.3 / 135	4.4 / 112
8 x 35	7.1	26.9	0.9	8.0 / 203	35.0 / 889	35.2 / 894	41.0 / 1041	25.2 / 640	5.3 / 135	4.4 / 112
8 x 36	7.3	27.6	1.0	8.0 / 203	36.0 / 914	36.2 / 919	42.0 / 1067	26.2 / 665	5.3 / 135	4.4 / 112
8 x 40	8.2	31.0	1.1	8.0 / 203	40.0 / 1016	40.3 / 1024	46.1 / 1171	30.3 / 770	5.3 / 135	4.4 / 112
8 x 44	9.1	34.4	1.2	8.0 / 203	44.0 / 1118	44.5 / 1130	50.2 / 1275	34.4 / 874	5.3 / 135	4.4 / 112
9 x 35	8.8	33.3	1.2	9.0 / 229	35.0 / 889	35.3 / 897	41.0 / 1041	24.5 / 622	5.3 / 135	5.2 / 132
9 x 40	10.3	39.0	1.4	9.0 / 229	40.0 / 1016	40.3 / 1024	46.0 / 1168	29.5 / 749	5.3 / 135	5.2 / 132
9 x 48	12.5	47.3	1.7	9.0 / 229	48.0 / 1219	48.3 / 1227	54.0 / 1372	37.5 / 953	5.3 / 135	5.2 / 132
10 x 19	5.1	19.3	0.7	10.0 / 254	19.0 / 483	19.3 / 490	24.8 / 630	8.0 / 203	5.8 / 147	5.2 / 132
10 x 30	8.5	32.2	1.1	10.0 / 254	30.0 / 762	30.4 / 772	36.0 / 914	19.3 / 490	5.8 / 147	5.2 / 132
10 x 35	10.4	39.4	1.4	10.0 / 254	35.0 / 889	35.2 / 894	40.7 / 1034	23.8 / 605	5.9 / 150	5.2 / 132
10 x 40	12.1	45.8	1.6	10.0 / 254	40.0 / 1016	40.3 / 1024	45.8 / 1163	28.9 / 734	5.9 / 150	5.2 / 132
10 x 42	12.7	48.1	1.7	10.0 / 254	42.0 / 1067	42.3 / 1074	47.8 / 1214	31.0 / 787	5.8 / 147	5.2 / 132
10 x 44	13.4	51.0	1.8	10.0 / 254	44.0 / 1118	44.3 / 1125	49.9 / 1267	33.1 / 841	5.8 / 147	5.2 / 132
10 x 47	14.4	55.0	1.9	10.0 / 254	47.0 / 1194	47.3 / 1201	52.8 / 1341	36.0 / 914	5.8 / 147	5.2 / 132
10 x 54	16.7	63.0	2.2	10.0 / 254	54.0 / 1372	54.3 / 1379	59.8 / 1519	43.0 / 1092	5.8 / 147	5.2 / 132
12 x 29	14.2	53.7	1.9	12.0 / 305	29.0 / 737	29.1 / 739	34.2 / 869	15.4 / 391	6.6 / 168	6.4 / 163
12 x 38	18.8	71.2	2.5	12.0 / 305	38.0 / 965	39.0 / 991	43.9 / 1115	25.1 / 638	6.6 / 168	6.4 / 163
12 x 48	23.4	89.0	3.1	12.0 / 305	48.0 / 1219	48.9 / 1242	53.8 / 1367	35.0 / 889	6.6 / 168	6.4 / 163
13 x 54	27.6	105.0	3.7	13.0 / 330	54.0 / 1372	54.9 / 1394	59.8 / 1519	35.6 / 904	9.1 / 231	9.3 / 236
14 x 65	39.7	150.3	5.3	14.0 / 356	65.0 / 1651	65.7 / 1669	70.5 / 1791	43.0 / 1092	10.8 / 274	11.1 / 282
16 x 23	14.5	55.0	1.9	16.0 / 406	23.0 / 584	24.7 / 627	28.8 / 732	See Factory	11.6 / 295	13.4 / 340
16 x 33	22.4	56.0	3.0	16.0 / 406	33.0 / 838	34.6 / 879	38.8 / 966	9.7 / 246	11.6 / 295	13.4 / 340
16 x 45	31.7	120.0	4.2	16.0 / 406	45.0 / 1143	46.5 / 1181	50.6 / 1285	21.6 / 549	11.6 / 295	13.4 / 340
16 x 58	42.0	159.0	5.6	16.0 / 406	58.0 / 1473	59.6 / 1514	63.7 / 1618	34.6 / 878	11.6 / 295	13.4 / 340
16 x 65	48.3	182.8	6.4	16.0 / 406	65.0 / 1651	65.9 / 1674	71.1 / 1806	41.7 / 1059	11.5 / 292	13.4 / 340

Color Options: BL - Blue BK - Black NA - Natural

