

Converting Compression Tank to Bladder or Diaphragm Tank

Compression Tank Size				Bladder/Diaphragm Tank Size (Gal.)					
Dia (in.)	Over Heads (in.)	Shell Length	Cap. (gal.)	Pre-charge pressure (psig) = PRV setting					
				12	20	30	40	50	60
12	33	26	15	8.3	6.4	4.9	4.0	3.4	3.0
	51	44	23	12.7	9.7	7.6	6.2	5.2	4.5
14	48	40	30	16.5	12.7	9.9	8.1	6.8	5.9
	63	55	40	22.0	16.9	13.2	10.7	9.1	7.9
16	48	39	39	21.5	16.5	12.8	10.5	8.9	7.7
	60	51	49	27.0	20.8	16.1	13.2	11.1	9.6
	72	63	59	32.5	25.0	19.4	15.9	13.4	11.6
20	48	37	60	33.0	25.4	19.7	16.1	13.6	11.8
	62	51	80	44.0	33.9	26.3	21.5	18.2	15.7
	72	61	93	51.2	39.4	30.6	25.0	21.1	18.3
	78	67	101	55.6	42.8	33.2	27.1	22.9	19.9
24	48	34	86	47.3	36.4	28.3	23.1	19.5	16.9
	60	46	109	60.0	46.2	35.8	29.3	24.8	21.4
	65	51	118	65.0	50.0	38.8	31.7	26.8	23.2
	72	58	131	72.1	55.5	43.1	35.2	29.8	25.8
	84	70	154	84.8	65.2	50.6	41.4	35.0	30.3
30	96	82	177	97.4	75.0	58.2	47.6	40.2	34.8
	48	31	133	73.2	56.3	43.7	35.7	30.2	26.2
	62	45	175	96.3	74.1	57.6	47.0	39.8	34.4
	72	55	204	112.3	86.4	67.1	54.8	46.3	40.1
	77	60	219	120.6	92.8	72.0	58.9	49.8	43.1
	84	67	240	132.1	101.7	78.9	64.5	54.5	47.2
	96	79	275	151.4	116.5	90.4	73.9	62.5	54.1
	105	88	302	166.3	127.9	99.3	81.2	68.6	59.4
36	120	103	346	190.5	146.6	113.8	93.0	78.6	68.1
	60	40	242	133.2	102.5	79.6	65.0	55.0	47.6
	72	52	293	161.3	124.1	96.4	78.7	66.6	57.7
	84	64	344	189.4	145.7	113.1	92.4	78.2	67.7
	93	73	390	214.7	165.2	128.3	104.8	88.6	76.7
	96	76	403	221.9	170.7	132.5	108.3	91.6	79.3
42	120	100	505	278.0	213.9	166.1	135.7	114.7	99.4
	72	48	404	222.4	171.1	132.9	108.6	91.8	79.5
	84	60	473	260.4	200.4	155.6	127.1	107.5	93.1
	96	72	526	289.6	222.8	173.0	141.4	119.5	103.5
	120	96	665	366.1	281.7	218.7	178.7	151.1	130.9
	144	120	804	442.7	340.6	264.4	216.1	182.7	158.2
	168	144	942	518.6	399.1	309.8	253.2	214.0	185.4
48	192	168	1081	595.2	457.9	355.5	290.5	245.6	212.7
	84	57	593	326.5	251.2	195.0	159.4	134.7	116.7
	96	69	683	376.0	289.3	224.6	183.5	155.2	134.4
	120	93	865	476.2	366.4	284.5	232.5	196.5	170.2
	144	117	1046	575.9	443.1	344.0	281.1	237.7	205.8
	168	141	1228	676.1	520.2	403.8	330.0	279.0	241.7
54	192	165	1409	775.7	596.9	463.4	378.7	320.1	277.3
	96	66	861	474.0	364.7	283.1	231.4	195.6	169.4
	120	90	1090	600.1	461.8	358.5	292.9	247.7	214.5
	144	114	1320	726.7	559.2	434.1	354.7	299.9	259.8
	168	138	1549	852.8	656.2	509.4	416.3	351.9	304.8
	192	162	1779	979.4	753.6	585.0	478.1	404.2	350.1
60	216	186	2009	1106.1	851.1	660.7	539.9	456.4	395.3
	120	87	1341	738.3	568.1	441.0	360.4	304.7	263.9
	144	111	1624	894.1	688.0	534.1	436.4	369.0	319.6
	168	135	1907	1049.9	807.9	627.1	512.5	433.3	375.3
	192	159	2191	1206.3	928.2	720.5	588.8	497.8	431.2
72	216	183	2474	1362.1	1048.1	813.6	664.9	562.1	486.9
	120	81	1915	1054.3	811.3	629.8	514.6	435.1	376.8
	144	105	2323	1279.0	984.1	763.9	624.3	527.8	457.1
	168	129	2731	1503.6	1156.9	898.1	733.9	620.5	537.4
72	192	153	3140	1728.8	1330.2	1032.6	843.8	713.4	617.9
	216	177	3548	1953.4	1503.0	1166.8	953.5	806.1	698.2