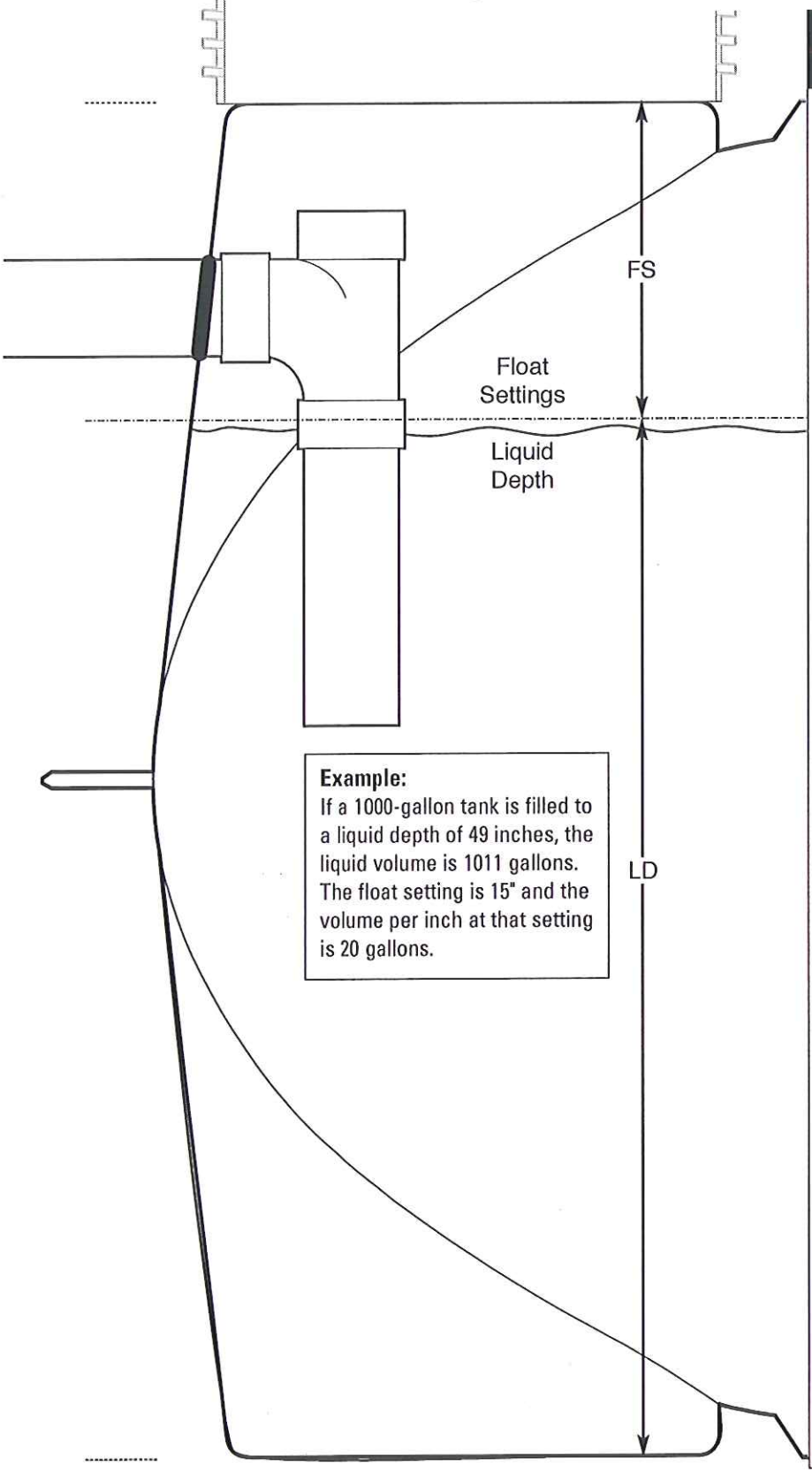
Liquid Depth Volume Chart

The chart below shows the relationship between tank volume, the float setting elevation, and the liquid depth. The float setting (FS) is measured from the top of the tank to the liquid surface; liquid depth (LD) is measured from the liquid surface to the floor of the tank.



Example:
If a 1000-gallon tank is filled to a liquid depth of 49 inches, the liquid volume is 1011 gallons. The float setting is 15" and the volume per inch at that setting is 20 gallons.

	1000-gallon tank		
Liquid depth LD (in.)	Float setting FS (in.)	Gallons per inch of depth	Gallons in tank
64	Top	26	1210
63	—	—	—
62	—	—	—
61	—	—	—
60	4	—	1184
59	5	11	1173
58	6	12	1161
57	7	13	1148
56	8	14	1134
55	9	15	1119
54	10	16	1103
53	11*	17	1086
52	12	17	1069
51	13**	19	1050
50	14	19	1031
49	15	20	1011
48	16	20	991
47	17	21	970
46	18	22	948
45	19	22	926
44	20	23	903
43	21	23	880
42	22	23	857
41	23	24	833
40	24	24	809
39	25	24	785
38	26	25	760
37	27	25	735
36	28	26	709
35	29	26	683
34	30	26	657
33	31	26	631
32	32	26	605
31	33	26	579
30	34	26	553
29	35	26	527
28	36	26	501
27	37	26	475
26	38	25	450
25	39	25	425
24	40	24	401
23	41	24	377
22	42	24	353
21	43	23	330
20	44	23	307
19	45	23	284
18	46	22	262
17	47	21	240
16	48	20	219
15	49	20	199
14	50	19	179
13	51	19	160
12	52	17	141
11	53	17	124
10	54	16	107
9	55	15	91
8	56	14	76
7	57	13	62
6	58	12	49
5	59	11	37
4	60	—	26
3	—	—	—
—	—	—	—
—	—	—	—
Floor	64	—	0

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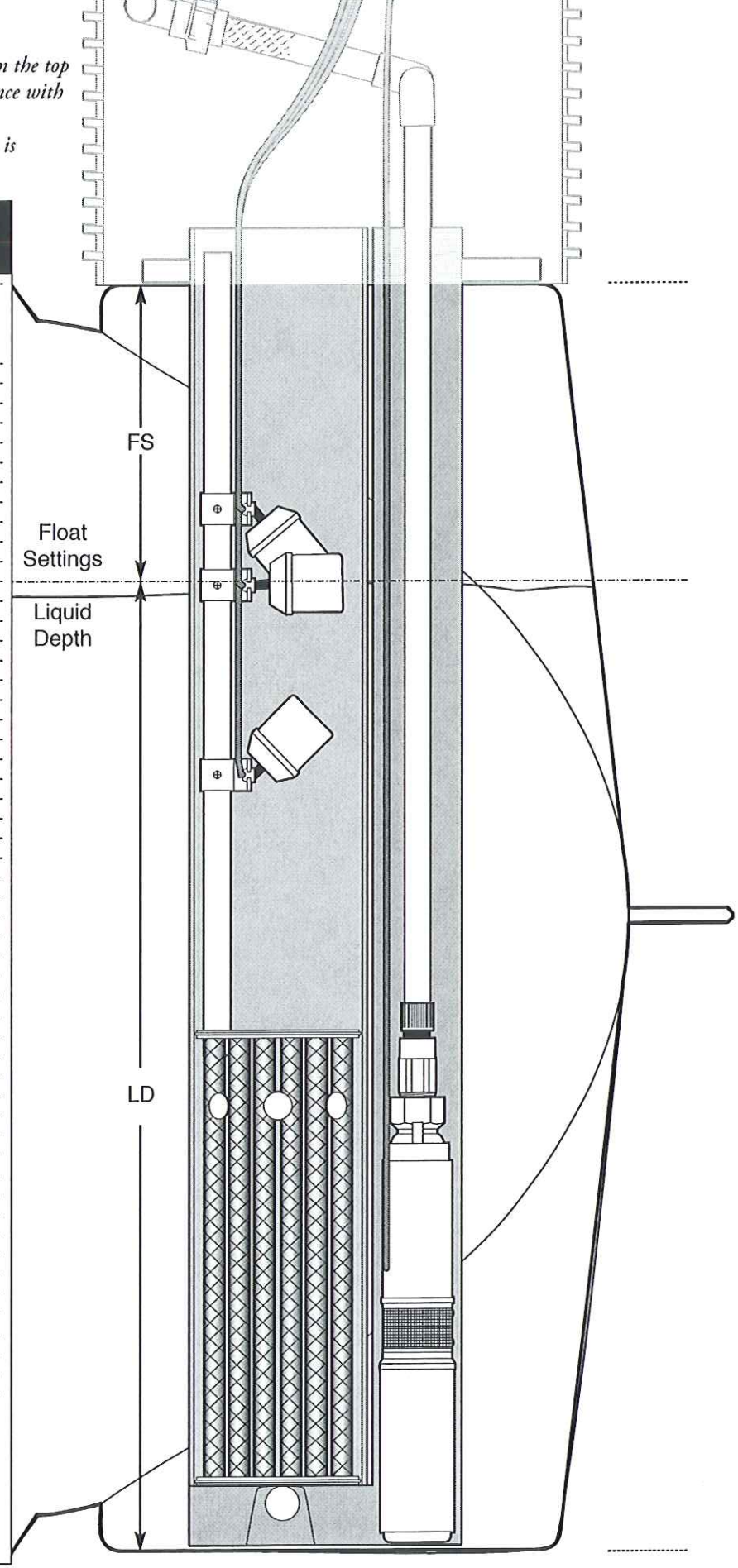
* *The invert of inlet is typically set 11 inches down from the top of the tank (see Float Setting columns), or in accordance with prevailing state or local regulations.*

** *For gravity discharge applications, the invert of outlet is typically located 13 inches from the top.*

	1500-gallon tank		
Liquid depth LD (in.)	Float setting FS (in.)	Gallons per inch of depth	Gallons in tank
64	Top	19	1800
63	—	—	—
62	—	—	—
61	—	16	—
60	4	17	1765
59	5	18	1748
58	6	21	1730
57	7	22	1709
56	8	23	1687
55	9	24	1664
54	10	25	1640
53	11*	26	1615
52	12	28	1589
51	13**	29	1561
50	14	30	1532
49	15	31	1502
48	16	32	1471
47	17	32	1439
46	18	33	1407
45	19	34	1374
44	20	35	1340
43	21	35	1305
42	22	36	1270
41	23	36	1234
40	24	36	1198
39	25	36	1162
38	26	37	1126
37	27	37	1089
36	28	37	1052
35	29	38	1015
34	30	38	977
33	31	39	939
32	32	39	900
31	33	38	861
30	34	38	823
29	35	37	785
28	36	37	748
27	37	37	711
26	38	36	674
25	39	36	638
24	40	36	602
23	41	36	566
22	42	35	530
21	43	35	495
20	44	34	460
19	45	33	426
18	46	32	393
17	47	32	361
16	48	31	329
15	49	30	298
14	50	29	268
13	51	28	239
12	52	26	211
11	53	25	185
10	54	24	160
9	55	23	136
8	56	22	113
7	57	21	91
6	58	18	70
5	59	17	52
4	60	16	35
3	—	19	—
—	—	—	—
—	—	—	—
Floor	64	—	0



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