

Long -and- Short Rod Fuel Switches

Float Settings (Inches) for Cylindrical Tanks (U.S. Units)

Round Tank Dia.	50%		60%		75%		80%		85%		90%		95%	
	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting
18	9.000	4.750	10.420	3.375	12.636	1.125	13.427	--	14.266	--	15.183	--	16.248	--
19	9.500	5.250	10.998	3.750	13.338	1.375	14.173	--	15.059	--	16.027	--	17.151	--
20	10.000	5.750	11.577	4.125	14.040	1.750	14.919	--	15.851	--	16.870	--	18.054	--
21	10.500	6.250	12.156	4.625	14.742	2.000	15.664	1.125	16.644	--	17.714	--	18.957	--
22	11.000	6.750	12.735	5.000	15.444	2.250	16.410	1.375	17.436	--	18.557	--	19.859	--
23	11.500	7.250	13.314	5.375	16.146	2.625	17.156	1.625	18.229	--	19.401	--	20.762	--
24	12.000	7.750	13.893	5.875	16.848	2.875	17.902	1.875	19.022	--	20.245	--	21.665	--
25	12.500	8.250	14.472	6.250	17.550	3.250	18.648	2.125	19.814	--	21.088	--	22.567	--
26	13.000	8.750	15.051	6.750	18.252	3.500	19.394	2.375	20.607	1.125	21.932	--	23.470	--
27	13.500	9.250	15.629	7.125	18.954	3.750	20.140	2.625	21.399	1.375	22.775	--	24.373	--
28	14.000	9.750	16.208	7.500	19.656	4.125	20.886	2.875	22.192	1.500	23.619	--	25.275	--
29	14.500	9.500	16.787	8.000	20.358	4.375	21.632	3.125	22.984	1.750	24.462	--	26.178	--
30	15.000	10.000	17.366	8.375	21.060	4.750	22.378	3.375	23.777	2.000	25.306	--	27.081	--
31	15.500	10.500	17.945	8.750	21.762	5.000	23.124	3.625	24.570	2.125	26.149	--	27.983	--
32	16.000	11.000	18.524	9.250	22.464	5.250	23.870	3.875	25.362	2.375	26.993	--	28.886	--
33	16.500	11.500	19.103	9.625	23.166	5.625	24.616	4.125	26.155	2.625	27.836	--	29.789	--
34	17.000	12.000	19.682	9.375	23.868	5.875	25.362	4.375	26.947	2.750	28.680	1.125	30.692	--
35	17.500	12.500	20.260	9.750	24.570	6.125	26.107	4.625	27.740	3.000	29.523	1.250	31.594	--
36	18.000	13.000	20.839	10.250	25.272	6.500	26.853	4.875	28.532	3.250	30.367	1.375	32.497	--
37	18.500	13.500	21.418	10.625	25.974	6.750	27.599	5.125	29.325	3.375	31.210	1.500	33.400	--
38	19.000	14.000	21.997	11.000	26.676	7.125	28.345	5.375	30.118	3.625	32.054	1.750	34.302	--
39	19.500	14.500	22.576	11.500	27.378	7.375	29.091	5.625	30.910	3.875	32.897	1.875	35.205	--
40	20.000	15.000	23.155	11.875	28.080	7.625	29.837	5.875	31.703	4.000	33.741	2.000	36.108	--
41	20.500	15.500	23.734	12.375	28.782	8.000	30.583	6.125	32.495	4.250	34.584	2.125	37.010	--
42	21.000	16.000	24.312	12.750	29.484	8.250	31.329	6.375	33.288	4.500	35.428	2.375	37.913	--
43	21.500	16.500	24.891	13.125	30.185	8.625	32.075	6.625	34.080	4.625	36.271	2.500	38.816	--
44	22.000	17.000	25.470	13.625	30.887	8.875	32.821	6.875	34.873	4.875	37.115	2.625	39.718	--
45	22.500	17.500	26.049	14.000	31.589	9.125	33.567	7.125	35.666	5.125	37.958	2.750	40.621	--
46	23.000	18.000	26.628	14.375	32.291	9.500	34.313	7.375	36.458	5.250	38.802	3.000	41.524	--
47	23.500	18.500	27.207	14.875	32.993	9.750	35.059	7.750	37.251	5.500	39.646	3.125	42.427	--
48	24.000	19.000	27.786	15.250	33.695	9.375	35.804	8.000	38.043	5.750	40.489	3.250	43.329	--
49	24.500	--	28.365	15.625	34.397	9.625	36.550	8.250	38.836	5.875	41.333	3.375	44.232	--
50	25.000	--	28.943	16.125	35.099	10.000	37.296	8.500	39.628	6.125	42.176	3.625	45.135	--
51	25.500	--	29.522	16.500	35.801	10.250	38.042	8.750	40.421	6.375	43.020	3.750	46.037	--
52	26.000	--	30.101	17.000	36.503	10.500	38.788	9.000	41.213	6.500	43.863	3.875	46.940	--
53	26.500	--	30.680	17.375	37.205	10.875	39.534	9.250	42.006	6.750	44.707	4.000	47.843	--
54	27.000	--	31.259	17.750	37.907	11.125	40.280	9.500	42.799	7.000	45.550	4.250	48.745	1.000
55	27.500	--	31.838	18.250	38.609	11.500	41.026	9.750	43.591	7.125	46.394	4.375	49.648	1.125
56	280.02	--	32.417	18.625	39.311	11.750	41.772	10.000	44.384	7.375	47.237	4.500	50.551	1.250
57	8.500	--	32.995	19.000	40.013	12.000	42.518	9.500	45.176	7.625	48.081	4.625	51.453	1.250
58	29.000	--	33.574	--	40.715	12.375	43.264	9.750	45.969	7.750	48.924	4.875	52.356	1.375
59	29.500	--	34.153	--	41.417	12.625	44.010	10.000	46.761	8.000	49.768	5.000	53.259	1.500
60	30.000	--	34.732	--	42.119	12.875	44.756	10.250	47.554	8.250	50.611	5.125	54.162	1.62

NOTE: 4) Use LONG ROD (two float) Model 4817L or Model 6288L for all Settings shown in **bold italics**.

Long -and- Short Rod Fuel Switches

Float Settings (Centimeters) for Cylindrical Tanks (Metric Units)

Round Tank Dia.	50%		60%		75%		80%		85%		90%		95%	
	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting	Fuel Height	Float Setting
45.7	22.9	12.1	26.5	8.6	32.1	2.9	34.1	--	36.2	--	38.6	--	41.3	--
48.3	24.1	13.3	27.9	9.5	33.9	3.5	36.0	--	38.2	--	40.7	--	43.6	--
50.8	25.4	14.6	29.4	10.5	35.7	4.4	37.9	--	40.3	--	42.9	--	45.9	--
53.3	26.7	15.9	30.9	11.7	37.4	5.1	39.8	2.9	42.3	--	45.0	--	8.1	--
55.9	27.9	17.1	32.3	12.7	39.2	5.7	41.7	3.5	44.3	--	47.1	--	50.4	--
58.4	29.2	18.4	33.8	13.7	41.0	6.7	43.6	4.1	46.3	--	49.3	--	52.7	--
61.0	30.5	19.7	35.3	14.9	42.8	7.3	45.5	4.8	48.3	--	51.4	--	55.0	--
63.5	31.8	21.0	36.8	15.9	44.6	8.3	47.4	5.4	50.3	--	53.6	--	57.3	--
66.0	33.0	22.2	38.2	17.1	46.4	8.9	49.3	6.0	52.3	2.9	55.7	--	59.6	--
68.6	34.3	23.5	39.7	18.1	48.1	9.5	51.2	6.7	54.4	3.5	57.8	--	61.9	--
71.1	35.6	24.8	41.2	19.1	49.9	10.5	53.1	7.3	56.4	3.8	60.0	--	64.2	--
73.7	36.8	24.1	42.6	20.3	51.7	11.1	54.9	7.9	58.4	4.4	62.1	--	66.5	--
76.2	38.1	25.4	44.1	21.3	53.5	12.1	56.8	8.6	60.4	5.1	64.3	--	68.8	--
78.7	39.4	26.7	45.6	22.2	55.36	12.7	58.7	9.2	62.4	5.4	66.4	--	71.1	--
81.3	40.6	27.9	47.1	23.5	57.1	13.3	60.6	9.8	64.4	6.0	68.6	--	73.4	--
83.8	41.9	29.2	48.5	24.4	58.8	14.3	62.5	10.5	66.4	6.7	70.7	--	75.7	--
86.4	43.2	30.5	50.0	23.8	60.6	14.9	64.4	11.1	68.4	7.0	72.8	2.9	78.0	--
88.9	44.5	31.8	51.5	24.8	62.4	15.6	66.3	11.7	70.5	7.6	75.0	3.2	80.2	--
91.4	45.7	33.0	52.9	26.0	64.2	16.5	68.2	12.4	72.5	8.3	77.1	3.5	82.5	--
94.0	47.0	34.3	54.4	27.0	66.0	17.1	70.1	13.0	74.5	8.6	79.3	3.8	84.8	--
96.5	48.3	35.6	55.9	27.9	67.8	18.1	72.0	13.7	76.5	9.2	81.4	4.4	87.1	--
99.1	49.5	36.8	57.3	29.2	69.5	18.7	73.8	14.3	78.5	9.8	83.6	4.8	89.4	--
101.6	50.8	38.1	58.8	30.2	71.3	19.4	75.8	14.9	80.5	10.2	85.7	5.1	91.7	--
104.1	52.1	39.4	60.3	31.4	73.1	20.3	77.7	15.6	82.5	10.8	87.8	5.4	94.0	--
106.7	53.3	40.6	61.8	32.4	74.9	21.0	79.6	16.2	84.6	11.4	90.0	6.0	96.3	--
109.2	54.6	41.9	63.2	33.3	76.7	21.9	81.5	16.8	86.6	11.7	92.1	6.4	98.6	--
111.8	55.9	43.2	64.7	34.6	78.5	22.5	83.4	17.5	88.6	12.4	94.3	6.7	100.9	--
114.3	57.2	44.5	66.2	35.6	80.2	23.2	85.3	18.1	90.6	13.0	96.4	7.0	103.2	--
116.8	58.4	45.7	67.6	36.5	82.0	24.1	87.2	18.7	92.6	13.3	98.6	7.6	105.5	--
119.4	59.7	47.0	69.1	37.8	83.8	24.8	89.0	19.7	94.6	14.0	100.7	7.9	107.8	--
121.9	61.0	48.3	70.6	38.7	85.6	23.8	90.9	20.3	96.6	14.6	102.8	8.3	110.1	--
124.5	62.2	--	72.0	39.7	87.4	24.4	92.8	21.0	98.6	14.9	105.0	8.6	112.3	--
127.0	63.5	--	73.5	41.0	89.2	25.4	94.7	21.6	100.7	15.6	107.1	9.2	114.6	--
129.5	64.8	--	75.0	41.9	90.9	26.0	96.6	22.2	102.7	16.2	109.3	9.5	116.9	--
132.1	66.0	--	76.5	43.2	92.7	26.7	98.5	22.9	104.7	16.5	111.4	9.8	119.2	--
134.6	67.3	--	77.9	44.1	94.5	27.6	100.4	23.5	106.7	17.1	113.6	10.2	121.5	--
137.2	68.6	--	79.4	45.1	96.3	28.3	102.3	24.1	108.7	17.8	115.7	10.8	123.8	2.5
139.7	69.9	--	80.9	46.4	98.1	29.2	104.2	24.8	110.7	18.1	117.8	11.1	126.1	2.9
142.2	71.1	--	82.3	47.3	99.9	29.8	106.1	25.4	112.7	18.7	120.0	11.4	128.4	3.2
144.8	72.4	--	83.8	48.3	101.6	30.5	108.0	24.1	114.7	19.4	122.1	11.7	130.7	3.2
147.3	73.7	--	85.3	--	103.4	31.4	109.9	24.8	116.8	19.7	124.3	12.4	133.0	3.5
149.9	74.9	--	86.7	--	105.2	32.1	111.8	25.4	118.8	20.3	126.4	12.7	135.3	3.8
152.4	76.2	--	88.2	--	107.0	32.7	113.7	26.0	120.8	21.0	128.6	13.0	137.6	4.1

NOTE: 4) Use LONG ROD (two float) Model 4817L or Model 6288L for all Settings shown in **bold italics**.

Long -and- Short Rod Fuel Switches

Oval Tank Settings Float Settings (Inches)

		50%			60%			75%			80%			90%		
Height	Width	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting
36.000	16.000	18.000	18.000	13.000	21.260	14.740	9.750	26.140	9.860	5.625	20.770	8.230	4.000	29.243	6.757	2.500
42.000	26.000	21.000	21.000	16.000	24.640	17.360	12.375	29.443	12.557	8.250	30.181	11.819	7.625	31.763	10.237	6.000
44.250	27.000	22.130	22.130	17.125	25.970	18.280	13.250	31.146	13.104	8.875	31.919	12.331	8.125	33.590	10.660	6.375
45.000	23.000	22.500	22.500	17.500	26.510	18.490	13.500	32.520	12.480	8.250	33.901	11.099	6.875	35.584	9.416	5.125
50.000	26.000	25.000	25.000	20.000	29.440	20.560	15.625	36.110	13.890	9.625	37.453	12.547	8.250	39.395	10.605	6.375

Oval Tank -- Float Settings (Centimeters)

		50%			60%			75%			80%			90%		
Height	Width	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting	Fuel Height	Air Height	Float Setting
91.4	40.6	45.7	45.7	33.0	54.0	37.4	24.8	66.4	25.0	14.3	52.8	20.9	10.2	74.3	17.2	6.4
106.7	60.0	53.3	53.3	40.6	62.3	44.1	31.4	74.8	31.9	21.0	76.7	30.0	19.4	80.7	26.0	15.2
111.8	68.6	53.7	53.7	43.5	66.0	46.4	34.0	79.1	33.3	22.5	81.1	31.3	20.6	85.3	20.1	16.2
114.3	58.4	57.2	57.2	44.5	67.3	47.0	34.3	82.6	31.7	21.0	86.1	28.2	17.6	90.4	23.9	13.0
127.0	66.0	63.5	63.5	50.8	74.8	52.2	39.7	91.7	35.3	24.4	95.1	31.9	21.0	100.1	26.9	16.2

Notes:

- 1) Reference N.F.P.A. Standard NFPA-20 A-2-18.
- 2) Typical Low Fuel Level Switch (4817) Settings are 50% thru 80%.
- 3) Typical High Fuel Level Switch (6288) Settings are 80% thru 95%.
- 4) Use LONG ROD (two float) Model 4817L or Model 6288L for **all** Settings shown in **bold italics**.
- 5) Fuel Height values are Height of Fuel above Tank Bottom (for reference only).
 Air Height values are the distance from the Fuel Level to the top of the Tank (for reference only).
- 6) Float Setting is the distance from the top of the Float (or Top Float on Long Rod Fuel Switches) to the bottom of the Float Rod Guide Tube, with the Float (Rod) Extended (Down).
- 7) Float Setting values are calculated for Diesel Fuel.
- 8) Refer to Drawing 4817 for Short Rod (Single Float) Low Fuel Switch Dimensions.
- 9) Refer to Drawing 4817L for Long Rod (Two Float) Low Fuel Switch Dimensions.
- 10) Refer to Drawing 6288 for High Fuel Switch Dimensions.

NOTE: 4) Use LONG ROD (two float) Model 4817L or Model 6288L for **all** Settings shown in **bold italics**.