

**Long -and- Short Rod Fuel Switches**

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

- For Double wall tanks, use the inside tank diameter
- Add the height of the tank coupling, less 3/4 inches (19mm), to the following float settings
- Also add the height of the exposed thread on the fuel switch to the following float settings

Round Tank Dia. (Inches)	50%		67%		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	11.430	2.375	12.636	1.125	13.427	--	14.266	--	15.183	--	16.248	--
19	9.500	5.250	12.065	2.625	13.338	1.375	14.173	--	15.059	--	16.027	--	17.151	--
20	10.000	5.750	12.700	3.000	14.040	1.750	14.919	--	15.851	--	16.870	--	18.054	--
21	10.500	6.250	13.335	3.375	14.742	2.000	15.664	1.125	16.644	--	17.714	--	18.957	--
22	11.000	6.750	13.970	3.750	15.444	2.250	16.410	1.375	17.436	--	18.557	--	19.859	--
23	11.500	7.250	14.605	4.125	16.146	2.625	17.156	1.625	18.229	--	19.401	--	20.762	--
24	12.000	7.750	15.240	4.500	16.848	2.875	17.902	1.875	19.022	--	20.245	--	21.665	--
25	12.500	8.250	15.875	4.875	17.550	3.250	18.648	2.125	19.814	--	21.088	--	22.567	--
26	13.000	8.750	16.510	5.250	18.252	3.500	19.394	2.375	20.607	1.125	21.932	--	23.470	--
27	13.500	9.250	17.145	5.625	18.954	3.750	20.140	2.625	21.399	1.375	22.775	--	24.373	--
28	14.000	9.750	17.780	6.000	19.656	4.125	20.886	2.875	22.192	1.500	23.619	--	25.275	--
29	14.500	<b>9.500</b>	18.415	6.375	20.358	4.375	21.632	3.125	22.984	1.750	24.462	--	26.178	--
30	15.000	<b>10.000</b>	19.050	6.750	21.060	4.750	22.378	3.375	23.777	2.000	25.306	--	27.081	--
31	15.500	<b>10.500</b>	19.685	7.125	21.762	5.000	23.124	3.625	24.570	2.125	26.149	--	27.983	--
32	16.000	<b>11.000</b>	20.320	7.375	22.464	5.250	23.870	3.875	25.362	2.375	26.993	--	28.886	--
33	16.500	<b>11.500</b>	20.955	7.500	23.166	5.625	24.616	4.125	26.155	2.625	27.836	--	29.789	--
34	17.000	<b>12.000</b>	21.590	8.125	23.868	5.875	25.362	4.375	26.947	2.750	28.680	1.125	30.692	--
35	17.500	<b>12.500</b>	22.225	8.500	24.570	6.125	26.107	4.625	27.740	3.000	29.523	1.250	31.594	--
36	18.000	<b>13.000</b>	22.860	8.875	25.272	6.500	26.853	4.875	28.532	3.250	30.367	1.375	32.497	--
37	18.500	<b>13.500</b>	23.495	9.250	25.974	6.750	27.599	5.125	29.325	3.375	31.210	1.500	33.400	--
38	19.000	<b>14.000</b>	24.130	9.625	26.676	7.125	28.345	5.375	30.118	3.625	32.054	1.750	34.302	--
39	19.500	<b>14.500</b>	24.765	10.000	27.378	7.375	29.091	5.625	30.910	3.875	32.897	1.875	35.205	--
40	20.000	<b>15.000</b>	25.400	<b>9.625</b>	28.080	7.625	29.837	5.875	31.703	4.000	33.741	2.000	36.108	--
41	20.500	<b>15.500</b>	26.035	<b>10.000</b>	28.782	8.000	30.583	6.125	32.495	4.250	34.584	2.125	37.010	--
42	21.000	<b>16.000</b>	26.670	<b>10.375</b>	29.484	8.250	31.329	6.375	33.288	4.500	35.428	2.375	37.913	--
43	21.500	<b>16.500</b>	27.305	<b>10.750</b>	30.185	8.625	32.075	6.625	34.080	4.625	36.271	2.500	38.816	--
44	22.000	<b>17.000</b>	27.940	<b>11.000</b>	30.887	8.875	32.821	6.875	34.873	4.875	37.115	2.625	39.718	--
45	22.500	<b>17.500</b>	28.575	<b>11.375</b>	31.589	9.125	33.567	7.125	35.666	5.125	37.958	2.750	40.621	--
46	23.000	<b>18.000</b>	29.210	<b>11.750</b>	32.291	9.500	34.313	7.375	36.458	5.250	38.802	3.000	41.524	--
47	23.500	<b>18.500</b>	29.845	<b>12.125</b>	32.993	9.750	35.059	7.750	37.251	5.500	39.646	3.125	42.427	--
48	24.000	<b>19.000</b>	30.480	<b>12.500</b>	33.695	<b>9.375</b>	35.804	8.000	38.043	5.750	40.489	3.250	43.329	--
49	24.500	--	31.115	<b>12.875</b>	34.397	<b>9.625</b>	36.550	8.250	38.836	5.875	41.333	3.375	44.232	--
50	25.000	--	31.750	<b>13.250</b>	35.099	<b>10.000</b>	37.296	8.500	39.628	6.125	42.176	3.625	45.135	--
51	25.500	--	32.385	<b>13.625</b>	35.801	<b>10.250</b>	38.042	8.750	40.421	6.375	43.020	3.750	46.037	--
52	26.000	--	33.020	<b>14.000</b>	36.503	<b>10.500</b>	38.788	9.000	41.213	6.500	43.863	3.875	46.940	--
53	26.500	--	33.655	<b>14.375</b>	37.205	<b>10.875</b>	39.534	9.250	42.006	6.750	44.707	4.000	47.843	--
54	27.000	--	34.290	<b>14.750</b>	37.907	<b>11.125</b>	40.280	9.500	42.799	7.000	45.550	4.250	48.745	1.000
55	27.500	--	34.925	<b>15.125</b>	38.609	<b>11.500</b>	41.026	9.750	43.591	7.125	46.394	4.375	49.648	1.125
56	28.000	--	35.560	<b>15.500</b>	39.311	<b>11.750</b>	41.772	10.000	44.384	7.375	47.237	4.500	50.551	1.250
57	28.500	--	36.195	<b>15.875</b>	40.013	<b>12.000</b>	42.518	<b>9.500</b>	45.176	7.625	48.081	4.625	51.453	1.250
58	29.000	--	36.830	<b>16.125</b>	40.715	<b>12.375</b>	43.264	<b>9.750</b>	45.969	7.750	48.924	4.875	52.356	1.375
59	29.500	--	37.465	<b>16.500</b>	41.417	<b>12.625</b>	44.010	<b>10.000</b>	46.761	8.000	49.768	5.000	53.259	1.500
60	30.000	--	38.100	<b>16.875</b>	42.119	<b>12.875</b>	44.756	<b>10.250</b>	47.554	8.250	50.611	5.125	54.162	1.620

**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)**

- For Double wall tanks, use the inside tank diameter
- Add the height of the tank coupling, less 3/4 inches (19mm), to the following float settings
- Also add the height of the exposed thread on the fuel switch to the following float settings

Round Tank Dia. (cm)	50%		67%		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	29.0	5.9	32.1	2.9	34.1	--	36.2	--	38.6	--	41.3	--
48.3	24.1	13.3	30.6	6.8	33.9	3.5	36.0	--	38.2	--	40.7	--	43.6	--
50.8	25.4	14.6	32.3	7.7	35.7	4.4	37.9	--	40.3	--	42.9	--	45.9	--
53.3	26.7	15.9	33.9	8.7	37.4	5.1	39.8	2.9	42.3	--	45.0	--	8.1	--
55.9	27.9	17.1	35.5	9.6	39.2	5.7	41.7	3.5	44.3	--	47.1	--	50.4	--
58.4	29.2	18.4	37.1	10.5	41.0	6.7	43.6	4.1	46.3	--	49.3	--	52.7	--
61.0	30.5	19.7	38.7	11.5	42.8	7.3	45.5	4.8	48.3	--	51.4	--	55.0	--
63.5	31.8	21.0	40.3	12.4	44.6	8.3	47.4	5.4	50.3	--	53.6	--	57.3	--
66.0	33.0	22.2	41.9	13.3	46.4	8.9	49.3	6.0	52.3	2.9	55.7	--	59.6	--
68.6	34.3	23.5	43.5	14.2	48.1	9.5	51.2	6.7	54.4	3.5	57.8	--	61.9	--
71.1	35.6	24.8	45.2	15.2	49.9	10.5	53.1	7.3	56.4	3.8	60.0	--	64.2	--
73.7	36.8	<b>24.1</b>	46.8	16.1	51.7	11.1	54.9	7.9	58.4	4.4	62.1	--	66.5	--
76.2	38.1	<b>25.4</b>	48.4	17.0	53.5	12.1	56.8	8.6	60.4	5.1	64.3	--	68.8	--
78.7	39.4	<b>26.7</b>	50.0	17.9	55.4	12.7	58.7	9.2	62.4	5.4	66.4	--	71.1	--
81.3	40.6	<b>27.9</b>	51.6	18.9	57.1	13.3	60.6	9.8	64.4	6.0	68.6	--	73.4	--
83.8	41.9	<b>29.2</b>	53.2	19.8	58.8	14.3	62.5	10.5	66.4	6.7	70.7	--	75.7	--
86.4	43.2	<b>30.5</b>	54.8	20.7	60.6	14.9	64.4	11.1	68.4	7.0	72.8	2.9	78.0	--
88.9	44.5	<b>31.8</b>	56.5	21.7	62.4	15.6	66.3	11.7	70.5	7.6	75.0	3.2	80.2	--
91.4	45.7	<b>33.0</b>	58.1	22.6	64.2	16.5	68.2	12.4	72.5	8.3	77.1	3.5	82.5	--
94.0	47.0	<b>34.3</b>	59.7	23.5	66.0	17.1	70.1	13.0	74.5	8.6	79.3	3.8	84.8	--
96.5	48.3	<b>35.6</b>	61.3	24.4	67.8	18.1	72.0	13.7	76.5	9.2	81.4	4.4	87.1	--
99.1	49.5	<b>36.8</b>	62.9	25.4	69.5	18.7	73.8	14.3	78.5	9.8	83.6	4.8	89.4	--
101.6	50.8	<b>38.1</b>	64.5	<b>24.4</b>	71.3	19.4	75.8	14.9	80.5	10.2	85.7	5.1	91.7	--
104.1	52.1	<b>39.4</b>	66.1	<b>25.3</b>	73.1	20.3	77.7	15.6	82.5	10.8	87.8	5.4	94.0	--
106.7	53.3	<b>40.6</b>	67.7	<b>26.2</b>	74.9	21.0	79.6	16.2	84.6	11.4	90.0	6.0	96.3	--
109.2	54.6	<b>41.9</b>	69.4	<b>27.2</b>	76.7	21.9	81.5	16.8	86.6	11.7	92.1	6.4	98.6	--
111.8	55.9	<b>43.2</b>	71.0	<b>28.1</b>	78.5	22.5	83.4	17.5	88.6	12.4	94.3	6.7	100.9	--
114.3	57.2	<b>44.5</b>	72.6	<b>29.0</b>	80.2	23.2	85.3	18.1	90.6	13.0	96.4	7.0	103.2	--
116.8	58.4	<b>45.7</b>	74.2	<b>29.9</b>	82.0	24.1	87.2	18.7	92.6	13.3	98.6	7.6	105.5	--
119.4	59.7	<b>47.0</b>	75.8	<b>30.9</b>	83.8	24.8	89.0	19.7	94.6	14.0	100.7	7.9	107.8	--
121.9	61.0	<b>48.3</b>	77.4	<b>31.8</b>	85.6	23.8	90.9	20.3	96.6	14.6	102.8	8.3	110.1	--
124.5	62.2	--	79.0	<b>32.7</b>	87.4	24.4	92.8	21.0	98.6	14.9	105.0	8.6	112.3	--
127.0	63.5	--	80.6	<b>33.7</b>	89.2	<b>25.4</b>	94.7	21.6	100.7	15.6	107.1	9.2	114.6	--
129.5	64.8	--	82.3	<b>34.6</b>	90.9	<b>26.0</b>	96.6	22.2	102.7	16.2	109.3	9.5	116.9	--
132.1	66.0	--	83.9	<b>35.5</b>	92.7	<b>26.7</b>	98.5	22.9	104.7	16.5	111.4	9.8	119.2	--
134.6	67.3	--	85.5	<b>36.4</b>	94.5	<b>27.6</b>	100.4	23.5	106.7	17.1	113.6	10.2	121.5	--
137.2	68.6	--	87.1	<b>37.4</b>	96.3	<b>28.3</b>	102.3	24.1	108.7	17.8	115.7	10.8	123.8	2.5
139.7	69.9	--	88.7	<b>38.3</b>	98.1	<b>29.2</b>	104.2	24.8	110.7	18.1	117.8	11.1	126.1	2.9
142.2	71.1	--	90.3	<b>39.2</b>	99.9	<b>29.8</b>	106.1	25.4	112.7	18.7	120.0	11.4	128.4	3.2
144.8	72.4	--	91.9	<b>40.1</b>	101.6	<b>30.5</b>	108.0	<b>24.1</b>	114.7	19.4	122.1	11.7	130.7	3.2
147.3	73.7	--	93.5	<b>41.1</b>	103.4	<b>31.4</b>	109.9	<b>24.8</b>	116.8	19.7	124.3	12.4	133.0	3.5
149.9	74.9	--	95.2	<b>42.0</b>	105.2	<b>32.1</b>	111.8	<b>25.4</b>	118.8	20.3	126.4	12.7	135.3	3.8
152.4	76.2	--	96.8	<b>42.9</b>	107.0	<b>32.7</b>	113.7	<b>26.0</b>	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%			67%			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	<b>13.000</b>	23.536	12.464	8.250	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	<b>16.000</b>	27.191	14.809	<b>9.750</b>	28.443	12.557	8.250	30.181	11.819	7.625	31.763	10.237	6.000
44.250	27.000	22.130	22.130	<b>17.125</b>	28.662	15.588	<b>10.625</b>	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	<b>17.500</b>	29.311	15.689	<b>10.750</b>	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	<b>20.000</b>	32.551	17.449	<b>12.500</b>	36.110	13.890	9.625	37.453	12.547	8.250	39.395	10.605	6.375

**Oval Tank - Float Settings (Centimeters)**

		50%			67%			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	<b>33.0</b>	59.8	31.7	27.4	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	<b>40.6</b>	69.1	37.6	<b>33.4</b>	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	<b>43.5</b>	72.8	39.6	<b>35.3</b>	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	<b>44.5</b>	74.4	39.9	<b>35.6</b>	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	<b>50.8</b>	82.7	44.3	<b>40.1</b>	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 12.4.1.4(7).
- 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.