



**SAYBOLT LP**  
 U. S. Headquarters  
 400 Swensen Drive  
 Kenilworth, NJ 07033

**BARGE HFL-402**  
**HULL # 04-2207**

**1 PORT**  
**INNAGE TABLE**  
**GALLONS**

**MANUAL GAUGE HEIGHT 16'-10 1/2"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	129,339	0	142,390	0	155,442	0	168,493	0	181,545
1/4	129,611	1/4	142,662	1/4	155,714	1/4	168,765	1/4	181,817
1/2	129,883	1/2	142,934	1/2	155,985	1/2	169,037	1/2	182,089
3/4	130,155	3/4	143,206	3/4	156,257	3/4	169,308	3/4	182,361
1	130,427	1	143,478	1	156,529	1	169,580	1	182,633
1/4	130,699	1/4	143,750	1/4	156,801	1/4	169,852	1/4	182,905
1/2	130,971	1/2	144,022	1/2	157,073	1/2	170,124	1/2	183,176
3/4	131,243	3/4	144,294	3/4	157,345	3/4	170,396	3/4	183,448
2	131,514	2	144,566	2	157,617	2	170,668	2	183,720
1/4	131,786	1/4	144,838	1/4	157,889	1/4	170,940	1/4	183,991
1/2	132,058	1/2	145,109	1/2	158,161	1/2	171,212	1/2	184,263
3/4	132,330	3/4	145,381	3/4	158,433	3/4	171,484	3/4	184,534
3	132,602	3	145,653	3	158,704	3	171,756	3	184,805
1/4	132,874	1/4	145,925	1/4	158,976	1/4	172,027	1/4	185,076
1/2	133,146	1/2	146,197	1/2	159,248	1/2	172,299	1/2	185,347
3/4	133,418	3/4	146,469	3/4	159,520	3/4	172,571	3/4	185,617
4	133,690	4	146,741	4	159,792	4	172,843	4	185,888
1/4	133,962	1/4	147,013	1/4	160,064	1/4	173,115	1/4	186,158
1/2	134,233	1/2	147,285	1/2	160,336	1/2	173,387	1/2	186,428
3/4	134,505	3/4	147,557	3/4	160,608	3/4	173,659	3/4	186,697
5	134,777	5	147,828	5	160,880	5	173,931	5	186,967
1/4	135,049	1/4	148,100	1/4	161,152	1/4	174,203	1/4	187,231
1/2	135,321	1/2	148,372	1/2	161,423	1/2	174,475	1/2	187,495
3/4	135,593	3/4	148,644	3/4	161,695	3/4	174,746	3/4	187,759
6	135,865	6	148,916	6	161,967	6	175,018	6	188,022
1/4	136,137	1/4	149,188	1/4	162,239	1/4	175,290	1/4	188,285
1/2	136,409	1/2	149,460	1/2	162,511	1/2	175,562	1/2	188,547
3/4	136,681	3/4	149,732	3/4	162,783	3/4	175,834	3/4	188,809
7	136,952	7	150,004	7	163,055	7	176,106	7	189,071
1/4	137,224	1/4	150,276	1/4	163,327	1/4	176,378	1/4	189,333
1/2	137,496	1/2	150,547	1/2	163,599	1/2	176,650	1/2	189,595
3/4	137,768	3/4	150,819	3/4	163,871	3/4	176,922	3/4	189,857
8	138,040	8	151,091	8	164,142	8	177,194	8	189,721
1/4	138,312	1/4	151,363	1/4	164,414	1/4	177,465	1/4	189,858
1/2	138,584	1/2	151,635	1/2	164,686	1/2	177,737	1/2	189,995
3/4	138,856	3/4	151,907	3/4	164,958	3/4	178,009	3/4	190,134
9	139,128	9	152,179	9	165,230	9	178,281	9	190,271
1/4	139,400	1/4	152,451	1/4	165,502	1/4	178,553	1/4	190,358
1/2	139,671	1/2	152,723	1/2	165,774	1/2	178,825	1/2	190,446
3/4	139,943	3/4	152,995	3/4	166,046	3/4	179,097	3/4	190,534
10	140,215	10	153,266	10	166,318	10	179,369	10	190,621
1/4	140,487	1/4	153,538	1/4	166,589	1/4	179,641	1/4	190,662
1/2	140,759	1/2	153,810	1/2	166,861	1/2	179,913	1/2	190,702
3/4	141,031	3/4	154,082	3/4	167,133	3/4	180,184	3/4	190,743
11	141,303	11	154,354	11	167,405	11	180,456	11	190,784
1/4	141,575	1/4	154,626	1/4	167,677	1/4	180,729	1/4	190,796
1/2	141,847	1/2	154,898	1/2	167,949	1/2	181,001		
3/4	142,119	3/4	155,170	3/4	168,221	3/4	181,273		

GAUGE LOCATED 10'-9 5/8" OFF CENTERLINE OF VESSEL & 38'-2 1/2" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M. = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05  
**SAYBOLT LP**

*J. Carlson*



**SAYBOLT LP**  
 U. S. Headquarters  
 400 Swenson Drive  
 Kenilworth, NJ 07033

**1 STAR**  
**INNAGE TABLE**  
**GALLONS**

**MANUAL GAUGE HEIGHT 16'-10 7/8"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	129,324	0	142,363	0	155,401	0	168,440	0	181,479
1/4	129,596	1/4	142,634	1/4	155,673	1/4	168,712	1/4	181,750
1/2	129,867	1/2	142,906	1/2	155,945	1/2	168,983	1/2	182,022
3/4	130,139	3/4	143,178	3/4	156,216	3/4	169,255	3/4	182,294
1	130,410	1	143,449	1	156,488	1	169,527	1	182,565
1/4	130,682	1/4	143,721	1/4	156,760	1/4	169,798	1/4	182,836
1/2	130,954	1/2	143,992	1/2	157,031	1/2	170,070	1/2	183,108
3/4	131,225	3/4	144,264	3/4	157,303	3/4	170,342	3/4	183,379
2	131,497	2	144,536	2	157,575	2	170,613	2	183,650
1/4	131,769	1/4	144,807	1/4	157,846	1/4	170,885	1/4	183,921
1/2	132,040	1/2	145,079	1/2	158,118	1/2	171,157	1/2	184,192
3/4	132,312	3/4	145,351	3/4	158,389	3/4	171,428	3/4	184,463
3	132,584	3	145,622	3	158,661	3	171,700	3	184,733
1/4	132,855	1/4	145,894	1/4	158,933	1/4	171,971	1/4	185,003
1/2	133,127	1/2	146,166	1/2	159,204	1/2	172,243	1/2	185,273
3/4	133,399	3/4	146,437	3/4	159,476	3/4	172,515	3/4	185,543
4	133,670	4	146,709	4	159,748	4	172,786	4	185,813
1/4	133,942	1/4	146,981	1/4	160,019	1/4	173,058	1/4	186,079
1/2	134,213	1/2	147,252	1/2	160,291	1/2	173,330	1/2	186,345
3/4	134,485	3/4	147,524	3/4	160,563	3/4	173,601	3/4	186,611
5	134,757	5	147,795	5	160,834	5	173,873	5	186,878
1/4	135,028	1/4	148,067	1/4	161,106	1/4	174,145	1/4	187,127
1/2	135,300	1/2	148,339	1/2	161,377	1/2	174,416	1/2	187,376
3/4	135,572	3/4	148,610	3/4	161,649	3/4	174,688	3/4	187,626
6	135,843	6	148,882	6	161,921	6	174,959	6	187,875
1/4	136,115	1/4	149,154	1/4	162,192	1/4	175,231	1/4	188,086
1/2	136,387	1/2	149,425	1/2	162,464	1/2	175,503	1/2	188,298
3/4	136,658	3/4	149,697	3/4	162,736	3/4	175,774	3/4	188,509
7	136,930	7	149,969	7	163,007	7	176,046	7	188,721
1/4	137,201	1/4	150,240	1/4	163,279	1/4	176,318	1/4	188,983
1/2	137,473	1/2	150,512	1/2	163,551	1/2	176,589	1/2	189,044
3/4	137,745	3/4	150,783	3/4	163,822	3/4	176,861	3/4	189,206
8	138,016	8	151,055	8	164,094	8	177,133	8	189,368
1/4	138,288	1/4	151,327	1/4	164,366	1/4	177,404	1/4	189,480
1/2	138,560	1/2	151,598	1/2	164,637	1/2	177,676	1/2	189,581
3/4	138,831	3/4	151,870	3/4	164,909	3/4	177,948	3/4	189,703
9	139,103	9	152,142	9	165,180	9	178,219	9	189,815
1/4	139,375	1/4	152,413	1/4	165,452	1/4	178,491	1/4	189,846
1/2	139,646	1/2	152,685	1/2	165,724	1/2	178,762		
3/4	139,918	3/4	152,957	3/4	165,995	3/4	179,034		
10	140,190	10	153,228	10	166,267	10	179,306		
1/4	140,461	1/4	153,500	1/4	166,539	1/4	179,577		
1/2	140,733	1/2	153,772	1/2	166,810	1/2	179,849		
3/4	141,004	3/4	154,043	3/4	167,082	3/4	180,121		
11	141,276	11	154,315	11	167,354	11	180,392		
1/4	141,548	1/4	154,586	1/4	167,625	1/4	180,664		
1/2	141,819	1/2	154,858	1/2	167,897	1/2	180,936		
3/4	142,091	3/4	155,130	3/4	168,168	3/4	181,207		

GAUGE LOCATED 11'-0 1/8" OFF CENTERLINE OF VESSEL & 38" 4/4" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M. = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH  
 STRAPPED BY: JAB-DH  
**SAYBOLT LP**  
 04/05  
 03/05



**BARGE HFL-402**  
**HULL # 04-2207**

**3 PORT**  
**ULLAGE TABLE**  
**GALLONS**

**MANUAL GAUGE HEIGHT 16'-11"**

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

GAUGE LOCATED 11'-10" OFF CENTERLINE OF VESSEL & 44'-6 3/8"  
 FORWARD OF AFT BULKHEAD.

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05  
**SAYBOLT LP**

*O. Erickson*

**BARGE HFL-402**  
**HULL # 04-2207**

**3 PORT**  
 ULLAGE TABLE  
 GALLONS

**MANUAL GAUGE HEIGHT 16'-11"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	104,886	0	89,792	0	74,732	0	59,676	0	44,579	0	29,483	0	14,386
1/4	104,572	1/4	89,477	1/4	74,418	1/4	59,361	1/4	44,265	1/4	29,168	1/4	14,072
1/2	104,258	1/2	89,163	1/2	74,105	1/2	59,046	1/2	43,950	1/2	28,854	1/2	13,757
3/4	103,944	3/4	88,848	3/4	73,792	3/4	58,732	3/4	43,636	3/4	28,539	3/4	13,443
1	103,629	1	88,534	1	73,479	1	58,417	1	43,321	1	28,225	1	13,128
1/4	103,315	1/4	88,219	1/4	73,166	1/4	58,103	1/4	43,006	1/4	27,910	1/4	12,814
1/2	103,001	1/2	87,905	1/2	72,853	1/2	57,788	1/2	42,692	1/2	27,595	1/2	12,499
3/4	102,687	3/4	87,590	3/4	72,540	3/4	57,474	3/4	42,377	3/4	27,281	3/4	12,185
2	102,372	2	87,275	2	72,227	2	57,159	2	42,063	2	26,966	2	11,870
1/4	102,058	1/4	86,961	1/4	71,915	1/4	56,845	1/4	41,748	1/4	26,652	1/4	11,555
1/2	101,743	1/2	86,646	1/2	71,602	1/2	56,530	1/2	41,434	1/2	26,337	1/2	11,241
3/4	101,429	3/4	86,332	3/4	71,289	3/4	56,216	3/4	41,119	3/4	26,023	3/4	10,926
3	101,114	3	86,017	3	70,976	3	55,901	3	40,805	3	25,708	3	10,612
1/4	100,800	1/4	85,703	1/4	70,663	1/4	55,587	1/4	40,490	1/4	25,394	1/4	10,297
1/2	100,485	1/2	85,388	1/2	70,350	1/2	55,272	1/2	40,176	1/2	25,079	1/2	9,983
3/4	100,171	3/4	85,074	3/4	70,037	3/4	54,958	3/4	39,861	3/4	24,765	3/4	9,668
4	99,856	4	84,759	4	69,724	4	54,643	4	39,547	4	24,450	4	9,354
1/4	99,542	1/4	84,445	1/4	69,411	1/4	54,329	1/4	39,232	1/4	24,136	1/4	9,039
1/2	99,227	1/2	84,131	1/2	69,098	1/2	54,014	1/2	38,918	1/2	23,821	1/2	8,725
3/4	98,913	3/4	83,816	3/4	68,785	3/4	53,700	3/4	38,603	3/4	23,507	3/4	8,410
5	98,598	5	83,502	5	68,472	5	53,385	5	38,289	5	23,192	5	8,096
1/4	98,284	1/4	83,188	1/4	68,158	1/4	53,071	1/4	37,974	1/4	22,878	1/4	7,782
1/2	97,969	1/2	82,875	1/2	67,844	1/2	52,756	1/2	37,660	1/2	22,563	1/2	7,467
3/4	97,655	3/4	82,561	3/4	67,531	3/4	52,442	3/4	37,345	3/4	22,249	3/4	7,153
6	97,340	6	82,247	6	67,217	6	52,127	6	37,031	6	21,934	6	6,839
1/4	97,026	1/4	81,934	1/4	66,903	1/4	51,813	1/4	36,716	1/4	21,620	1/4	6,525
1/2	96,711	1/2	81,620	1/2	66,589	1/2	51,498	1/2	36,402	1/2	21,305	1/2	6,211
3/4	96,397	3/4	81,307	3/4	66,275	3/4	51,184	3/4	36,087	3/4	20,991	3/4	5,897
7	96,082	7	80,994	7	65,961	7	50,869	7	35,773	7	20,676	7	5,583
1/4	95,768	1/4	80,681	1/4	65,646	1/4	50,555	1/4	35,458	1/4	20,362	1/4	5,270
1/2	95,453	1/2	80,368	1/2	65,332	1/2	50,240	1/2	35,144	1/2	20,047	1/2	4,956
3/4	95,139	3/4	80,054	3/4	65,018	3/4	49,926	3/4	34,829	3/4	19,733	3/4	4,643
8	94,824	8	79,741	8	64,704	8	49,611	8	34,515	8	19,418	8	4,329
1/4	94,510	1/4	79,428	1/4	64,390	1/4	49,297	1/4	34,200	1/4	19,104	1/4	4,017
1/2	94,195	1/2	79,115	1/2	64,075	1/2	48,982	1/2	33,886	1/2	18,789	1/2	3,705
3/4	93,881	3/4	78,802	3/4	63,761	3/4	48,668	3/4	33,571	3/4	18,475	3/4	3,392
9	93,566	9	78,489	9	63,447	9	48,353	9	33,257	9	18,160	9	3,080
1/4	93,252	1/4	78,176	1/4	63,133	1/4	48,039	1/4	32,942	1/4	17,846	1/4	2,772
1/2	92,937	1/2	77,863	1/2	62,818	1/2	47,724	1/2	32,628	1/2	17,531	1/2	2,464
3/4	92,623	3/4	77,550	3/4	62,504	3/4	47,410	3/4	32,313	3/4	17,217	3/4	2,157
10	92,308	10	77,236	10	62,190	10	47,095	10	31,999	10	16,902	10	1,849
1/4	91,994	1/4	76,923	1/4	61,876	1/4	46,781	1/4	31,684	1/4	16,588	1/4	1,585
1/2	91,679	1/2	76,610	1/2	61,561	1/2	46,466	1/2	31,370	1/2	16,273	1/2	1,322
3/4	91,364	3/4	76,297	3/4	61,247	3/4	46,152	3/4	31,055	3/4	15,959	3/4	1,058
11	91,050	11	75,984	11	60,933	11	45,837	11	30,741	11	15,644	11	794
1/4	90,735	1/4	75,671	1/4	60,618	1/4	45,523	1/4	30,426	1/4	15,330	1/4	
1/2	90,421	1/2	75,358	1/2	60,304	1/2	45,208	1/2	30,112	1/2	15,015	1/2	
3/4	90,106	3/4	75,045	3/4	59,990	3/4	44,894	3/4	29,797	3/4	14,701	3/4	

GAUGE LOCATED 11'-10" OFF CENTERLINE OF VESSEL & 44'-6 3/8" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.  
 L.B.D.M. = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH  
 STRAPPED BY: JAB-DH  
**SAYBOLT LP**  
 04/05  
 03/05

*O. Erickson*



**SAYBOLT LP**  
 U. S. Headquarters  
 400 Swenson Drive  
 Kenvilworth, NJ 07033

**BARGE HFL-402**  
**HULL # 04-2207**

**3 STAR**  
 ULLAGE TABLE  
 GALLONS

**MANUAL GAUGE HEIGHT 16'-11 5/8"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	105.579	0	90.445	0	75.396	0	60.353	0	45.231	0	30.109	0	14.987
1/4	105.265	1/4	90.140	1/4	75.084	1/4	60.038	1/4	44.916	1/4	29.794	1/4	14.672
1/2	104.950	1/2	89.830	1/2	74.772	1/2	59.723	1/2	44.601	1/2	29.479	1/2	14.357
3/4	104.635	3/4	89.515	3/4	74.459	3/4	59.408	3/4	44.286	3/4	29.164	3/4	14.042
1	104.321	1	89.200	1	74.147	1	59.093	1	43.971	1	28.849	1	13.727
1/4	104.006	1/4	88.885	1/4	73.835	1/4	58.778	1/4	43.656	1/4	28.534	1/4	13.412
1/2	103.691	1/2	88.570	1/2	73.522	1/2	58.463	1/2	43.341	1/2	28.219	1/2	13.097
3/4	103.376	3/4	88.255	3/4	73.210	3/4	58.148	3/4	43.026	3/4	27.904	3/4	12.782
2	102.062	2	87.940	2	72.898	2	57.833	2	42.711	2	27.589	2	12.467
1/4	102.747	1/4	87.625	1/4	72.586	1/4	57.518	1/4	42.396	1/4	27.274	1/4	12.152
1/2	102.432	1/2	87.310	1/2	72.273	1/2	57.203	1/2	42.081	1/2	26.959	1/2	11.837
3/4	102.117	3/4	86.995	3/4	71.961	3/4	56.888	3/4	41.766	3/4	26.644	3/4	11.522
1	101.802	1	86.679	1	71.649	1	56.573	1	41.451	1	26.329	1	11.207
1/4	101.487	1/4	86.364	1/4	71.337	1/4	56.258	1/4	41.136	1/4	26.014	1/4	10.892
1/2	101.172	1/2	86.049	1/2	71.025	1/2	55.943	1/2	40.821	1/2	25.699	1/2	10.577
3/4	100.857	3/4	85.734	3/4	70.713	3/4	55.628	3/4	40.506	3/4	25.384	3/4	10.262
4	100.542	4	85.419	4	70.400	4	55.313	4	40.191	4	25.069	4	9.947
1/4	100.227	1/4	85.104	1/4	70.088	1/4	55.098	1/4	39.876	1/4	24.754	1/4	9.632
1/2	99.912	1/2	84.789	1/2	69.776	1/2	54.682	1/2	39.561	1/2	24.439	1/2	9.317
3/4	99.597	3/4	84.474	3/4	69.464	3/4	54.367	3/4	39.246	3/4	24.124	3/4	9.002
5	99.282	5	84.159	5	69.152	5	54.052	5	38.930	5	23.809	5	8.686
1/4	98.967	1/4	83.844	1/4	68.839	1/4	53.737	1/4	38.615	1/4	23.494	1/4	8.371
1/2	98.651	1/2	83.530	1/2	68.526	1/2	53.422	1/2	38.300	1/2	23.178	1/2	8.057
3/4	98.336	3/4	83.215	3/4	68.214	3/4	53.107	3/4	37.985	3/4	22.863	3/4	7.742
6	98.021	6	82.901	6	67.901	6	52.792	6	37.670	6	22.548	6	7.427
1/4	97.706	1/4	82.587	1/4	67.588	1/4	52.477	1/4	37.355	1/4	22.233	1/4	7.112
1/2	97.391	1/2	82.273	1/2	67.274	1/2	52.162	1/2	37.040	1/2	21.918	1/2	6.797
3/4	97.076	3/4	81.959	3/4	66.961	3/4	51.847	3/4	36.725	3/4	21.603	3/4	6.483
7	96.761	7	81.645	7	66.648	7	51.532	7	36.410	7	21.288	7	6.168
1/4	96.446	1/4	81.332	1/4	66.333	1/4	51.217	1/4	36.095	1/4	20.973	1/4	5.854
1/2	96.131	1/2	81.020	1/2	66.019	1/2	50.902	1/2	35.780	1/2	20.658	1/2	5.540
3/4	95.816	3/4	80.707	3/4	65.704	3/4	50.587	3/4	35.465	3/4	20.343	3/4	5.225
8	95.501	8	80.395	8	65.389	8	50.272	8	35.150	8	20.028	8	4.911
1/4	95.186	1/4	80.082	1/4	65.074	1/4	49.957	1/4	34.835	1/4	19.713	1/4	4.598
1/2	94.871	1/2	79.770	1/2	64.760	1/2	49.642	1/2	34.520	1/2	19.398	1/2	4.284
3/4	94.556	3/4	79.458	3/4	64.445	3/4	49.327	3/4	34.205	3/4	19.083	3/4	3.971
9	94.241	9	79.145	9	64.130	9	49.012	9	33.890	9	18.768	9	3.657
1/4	93.926	1/4	78.833	1/4	63.816	1/4	48.697	1/4	33.575	1/4	18.453	1/4	3.345
3/4	93.611	3/4	78.520	3/4	63.501	3/4	48.382	3/4	33.260	3/4	18.138	3/4	3.032
10	93.296	10	78.208	10	63.186	10	48.067	10	32.945	10	17.823	10	2.720
1/4	92.981	1/4	77.896	1/4	62.871	1/4	47.752	1/4	32.630	1/4	17.508	1/4	2.410
1/2	92.666	1/2	77.583	1/2	62.557	1/2	47.437	1/2	32.315	1/2	17.193	1/2	2.104
3/4	92.351	3/4	77.271	3/4	62.242	3/4	47.122	3/4	32.000	3/4	16.878	3/4	1.801
11	92.036	11	76.958	11	61.927	11	46.806	11	31.685	11	16.563	11	1.500
1/4	91.721	1/4	76.646	1/4	61.612	1/4	46.491	1/4	31.370	1/4	16.248	1/4	1.214
1/2	91.406	1/2	76.334	1/2	61.297	1/2	46.176	1/2	31.054	1/2	15.933	1/2	970
3/4	91.090	3/4	76.021	3/4	60.983	3/4	45.861	3/4	30.739	3/4	15.618	3/4	763
12	90.775	12	75.709	12	60.668	12	45.546	12	30.424	12	15.302	12	665

GAUGE LOCATED 11'-7" OFF CENTERLINE OF VESSEL & 44'-7" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M. = 231.6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05

**SAYBOLT LP**

*O. Chiodo*





**SAYBOLT LP**  
 U. S. Headquarters  
 400 Swanson Drive  
 Kenilworth, NJ 07033

**BARGE HFL-402**  
**HULL # 04-2207**

**2 STAR**  
 ULLAGE TABLE  
 GALLONS

**MANUAL GAUGE HEIGHT 16'-10 5/8"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	105.648	0	90.611	0	75.597	0	60.525	0	45.452	0	30.380	0	15.307
1/4	105.334	1/4	90.299	1/4	75.283	1/4	60.211	1/4	45.138	1/4	30.066	1/4	14.933
1/2	105.020	1/2	89.987	1/2	74.969	1/2	59.897	1/2	44.824	1/2	29.752	1/2	14.679
3/4	104.706	3/4	89.675	3/4	74.655	3/4	59.583	3/4	44.510	3/4	29.438	3/4	14.365
1	104.392	1	89.363	1	74.341	1	59.269	1	44.196	1	29.124	1	14.051
1/4	104.078	1/4	89.051	1/4	74.027	1/4	58.955	1/4	43.882	1/4	28.810	1/4	13.737
1/2	103.763	1/2	88.739	1/2	73.713	1/2	58.641	1/2	43.568	1/2	28.496	1/2	13.423
3/4	103.449	3/4	88.427	3/4	73.399	3/4	58.327	3/4	43.254	3/4	28.182	3/4	13.109
2	103.135	2	88.115	2	73.085	2	58.013	2	42.940	2	27.868	2	12.795
1/4	102.821	1/4	87.803	1/4	72.771	1/4	57.699	1/4	42.626	1/4	27.554	1/4	12.481
1/2	102.507	1/2	87.491	1/2	72.457	1/2	57.385	1/2	42.312	1/2	27.240	1/2	12.167
3/4	102.193	3/4	87.179	3/4	72.143	3/4	57.071	3/4	41.998	3/4	26.926	3/4	11.853
3	101.879	3	86.867	3	71.829	3	56.757	3	41.684	3	26.612	3	11.539
1/4	101.565	1/4	86.555	1/4	71.515	1/4	56.443	1/4	41.370	1/4	26.298	1/4	11.225
1/2	101.251	1/2	86.243	1/2	71.201	1/2	56.129	1/2	41.056	1/2	25.984	1/2	10.911
3/4	100.937	3/4	85.931	3/4	70.887	3/4	55.815	3/4	40.742	3/4	25.670	3/4	10.597
4	100.623	4	85.619	4	70.573	4	55.501	4	40.428	4	25.356	4	10.283
1/4	100.309	1/4	85.307	1/4	70.259	1/4	55.187	1/4	40.114	1/4	25.042	1/4	9.969
1/2	99.995	1/2	84.995	1/2	69.945	1/2	54.873	1/2	39.800	1/2	24.728	1/2	9.655
3/4	99.681	3/4	84.683	3/4	69.631	3/4	54.559	3/4	39.486	3/4	24.414	3/4	9.341
5	99.367	5	84.371	5	69.317	5	54.245	5	39.172	5	24.100	5	9.027
1/4	99.053	1/4	84.059	1/4	69.003	1/4	53.931	1/4	38.854	1/4	23.786	1/4	8.713
1/2	98.739	1/2	83.746	1/2	68.689	1/2	53.617	1/2	38.544	1/2	23.472	1/2	8.399
3/4	98.425	3/4	83.434	3/4	68.375	3/4	53.303	3/4	38.230	3/4	23.158	3/4	8.085
6	98.111	6	83.122	6	68.061	6	52.989	6	37.916	6	22.844	6	7.771
1/4	97.797	1/4	82.810	1/4	67.747	1/4	52.675	1/4	37.602	1/4	22.529	1/4	7.457
1/2	97.484	1/2	82.497	1/2	67.433	1/2	52.361	1/2	37.288	1/2	22.215	1/2	7.144
3/4	97.170	3/4	82.185	3/4	67.119	3/4	52.047	3/4	36.974	3/4	21.901	3/4	6.830
7	96.857	7	81.872	7	66.805	7	51.733	7	36.660	7	21.587	7	6.516
1/4	96.544	1/4	81.559	1/4	66.491	1/4	51.419	1/4	36.346	1/4	21.273	1/4	6.203
1/2	96.230	1/2	81.246	1/2	66.177	1/2	51.105	1/2	36.032	1/2	20.959	1/2	5.889
3/4	95.918	3/4	80.933	3/4	65.863	3/4	50.790	3/4	35.718	3/4	20.645	3/4	5.576
8	95.605	8	80.620	8	65.549	8	50.476	8	35.404	8	20.331	8	5.263
1/4	95.292	1/4	80.306	1/4	65.235	1/4	50.162	1/4	35.090	1/4	20.017	1/4	4.950
1/2	94.980	1/2	79.993	1/2	64.921	1/2	49.848	1/2	34.776	1/2	19.703	1/2	4.637
3/4	94.667	3/4	79.679	3/4	64.607	3/4	49.534	3/4	34.462	3/4	19.389	3/4	4.325
9	94.355	9	79.365	9	64.293	9	49.220	9	34.148	9	19.075	9	4.013
1/4	94.043	1/4	79.051	1/4	63.979	1/4	48.906	1/4	33.834	1/4	18.761	1/4	3.701
1/2	93.731	1/2	78.737	1/2	63.665	1/2	48.592	1/2	33.520	1/2	18.447	1/2	3.389
3/4	93.419	3/4	78.423	3/4	63.351	3/4	48.278	3/4	33.206	3/4	18.133	3/4	3.078
10	93.107	10	78.109	10	63.037	10	47.964	10	32.892	10	17.819	10	2.769
1/4	92.795	1/4	77.795	1/4	62.723	1/4	47.650	1/4	32.578	1/4	17.505	1/4	2.460
1/2	92.483	1/2	77.481	1/2	62.409	1/2	47.336	1/2	32.264	1/2	17.191	1/2	2.150
3/4	92.171	3/4	77.167	3/4	62.095	3/4	47.022	3/4	31.950	3/4	16.877	3/4	1.996
11	91.859	11	76.853	11	61.781	11	46.708	11	31.636	11	16.563	11	1.996
1/4	91.547	1/4	76.539	1/4	61.467	1/4	46.394	1/4	31.322	1/4	16.249	1/4	1.996
1/2	91.235	1/2	76.225	1/2	61.153	1/2	46.080	1/2	31.008	1/2	15.935	1/2	1.996
3/4	90.923	3/4	75.911	3/4	60.839	3/4	45.766	3/4	30.694	3/4	15.621	3/4	1.996

GAUGE LOCATED 11'-7 7/8" OFF CENTERLINE OF VESSEL & 44'-2 1/8" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MEMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH  
 STRAPPED BY: JAB-DH  
**SAYBOLT LP**  
 03/05

*O. S. Swanson*



**SAYBOLT LP**  
 U. S. Headquarters  
 400 Swenson Drive  
 Kenilworth, NJ 07033

**BARGE HFL-402**  
**HULL # 04-2207**

**1 STAR**  
 ULLAGE TABLE  
 GALLONS

**MANUAL GAUGE HEIGHT 16'-10 7/8"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	88,985	0	75,949	0	62,917	0	49,880	0	36,841	0	23,803	0	10,898
1/4	88,713	1/4	75,678	1/4	62,645	1/4	49,608	1/4	36,570	1/4	23,532	1/4	10,641
1/2	88,442	1/2	75,406	1/2	62,374	1/2	49,337	1/2	36,308	1/2	23,260	1/2	10,385
3/4	88,170	3/4	75,134	3/4	62,102	3/4	49,065	3/4	36,037	3/4	22,988	3/4	10,128
1	87,899	1	74,863	1	61,831	1	48,793	1	35,755	1	22,717	1	9,871
1/4	87,627	1/4	74,591	1/4	61,559	1/4	48,522	1/4	35,483	1/4	22,445	1/4	9,617
1/2	87,355	1/2	74,320	1/2	61,288	1/2	48,250	1/2	35,212	1/2	22,173	1/2	9,363
3/4	87,084	3/4	74,048	3/4	61,016	3/4	47,978	3/4	34,940	3/4	21,902	3/4	9,109
2	86,812	2	73,777	2	60,745	2	47,707	2	34,668	2	21,630	2	8,855
1/4	86,540	1/4	73,505	1/4	60,473	1/4	47,435	1/4	34,397	1/4	21,359	1/4	8,604
1/2	86,269	1/2	73,234	1/2	60,202	1/2	47,163	1/2	34,125	1/2	21,087	1/2	8,353
3/4	85,997	3/4	72,962	3/4	59,930	3/4	46,892	3/4	33,854	3/4	20,815	3/4	8,102
3	85,725	3	72,691	3	59,658	3	46,620	3	33,582	3	20,544	3	7,851
1/4	85,454	1/4	72,419	1/4	59,387	1/4	46,349	1/4	33,310	1/4	20,272	1/4	7,603
1/2	85,182	1/2	72,148	1/2	59,115	1/2	46,077	1/2	33,039	1/2	20,000	1/2	7,355
3/4	84,910	3/4	71,876	3/4	58,844	3/4	45,805	3/4	32,767	3/4	19,729	3/4	7,107
4	84,639	4	71,605	4	58,572	4	45,534	4	32,495	4	19,457	4	6,859
1/4	84,367	1/4	71,333	1/4	58,300	1/4	45,262	1/4	32,224	1/4	19,185	1/4	6,614
1/2	84,096	1/2	71,062	1/2	58,029	1/2	44,990	1/2	31,952	1/2	18,914	1/2	6,370
3/4	83,824	3/4	70,790	3/4	57,757	3/4	44,719	3/4	31,680	3/4	18,642	3/4	6,125
5	83,552	5	70,519	5	57,485	5	44,447	5	31,409	5	18,371	5	5,880
1/4	83,281	1/4	70,248	1/4	57,214	1/4	44,176	1/4	31,137	1/4	18,099	1/4	5,639
1/2	83,009	1/2	69,976	1/2	56,942	1/2	43,904	1/2	30,866	1/2	17,827	1/2	5,397
3/4	82,738	3/4	69,705	3/4	56,671	3/4	43,632	3/4	30,594	3/4	17,556	3/4	5,156
6	82,466	6	69,433	6	56,399	6	43,361	6	30,322	6	17,284	6	4,915
1/4	82,194	1/4	69,162	1/4	56,127	1/4	43,089	1/4	30,051	1/4	17,013	1/4	4,677
1/2	81,923	1/2	68,890	1/2	55,856	1/2	42,817	1/2	29,779	1/2	16,742	1/2	4,440
3/4	81,651	3/4	68,619	3/4	55,584	3/4	42,546	3/4	29,507	3/4	16,471	3/4	4,202
7	81,380	7	68,347	7	55,312	7	42,274	7	29,236	7	16,200	7	3,965
1/4	81,108	1/4	68,076	1/4	55,041	1/4	42,002	1/4	28,964	1/4	15,930	1/4	3,731
1/2	80,837	1/2	67,804	1/2	54,769	1/2	41,731	1/2	28,693	1/2	15,660	1/2	3,498
3/4	80,565	3/4	67,533	3/4	54,498	3/4	41,459	3/4	28,421	3/4	15,391	3/4	3,264
8	80,293	8	67,261	8	54,226	8	41,188	8	28,149	8	15,121	8	3,031
1/4	80,022	1/4	66,990	1/4	53,954	1/4	40,916	1/4	27,878	1/4	14,853	1/4	2,805
1/2	79,750	1/2	66,718	1/2	53,683	1/2	40,644	1/2	27,606	1/2	14,585	1/2	2,580
3/4	79,479	3/4	66,447	3/4	53,411	3/4	40,373	3/4	27,334	3/4	14,317	3/4	2,354
9	79,207	9	66,175	9	53,139	9	40,101	9	27,063	9	14,049	9	2,128
1/4	78,936	1/4	65,903	1/4	52,868	1/4	39,829	1/4	26,791	1/4	13,784	1/4	1,925
1/2	78,664	1/2	65,632	1/2	52,596	1/2	39,558	1/2	26,519	1/2	13,518	1/2	1,723
3/4	78,393	3/4	65,360	3/4	52,324	3/4	39,286	3/4	26,248	3/4	13,253	3/4	1,520
10	78,121	10	65,089	10	52,053	10	39,015	10	25,976	10	12,988	10	1,317
1/4	77,850	1/4	64,817	1/4	51,781	1/4	38,743	1/4	25,705	1/4	12,725	1/4	1,114
1/2	77,578	1/2	64,546	1/2	51,510	1/2	38,471	1/2	25,433	1/2	12,462	1/2	910
3/4	77,307	3/4	64,274	3/4	51,238	3/4	38,200	3/4	25,161	3/4	12,200	3/4	707
11	77,035	11	64,003	11	50,966	11	37,928	11	24,890	11	11,937	11	504
1/4	76,764	1/4	63,731	1/4	50,695	1/4	37,656	1/4	24,618	1/4	11,677	1/4	301
1/2	76,492	1/2	63,460	1/2	50,423	1/2	37,385	1/2	24,346	1/2	11,418	1/2	98
3/4	76,221	3/4	63,188	3/4	50,151	3/4	37,113	3/4	24,075	3/4	11,158	3/4	76

GAUGE LOCATED 11'-0 1/8" OFF CENTERLINE OF VESSEL & 38'-4" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05  
**SAYBOLT LP**

*Chadwick*



**SAYBOLT LP**  
 U. S. Headquarters  
 400 Swanson Drive  
 Kenilworth, NJ 07033

**BARGE HFL-402**  
**HULL # 04-2207**

**1 PORT**  
**ULLAGE TABLE**  
**GALLONS**

MANUAL GAUGE HEIGHT 16'-10 1/2"													
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	88,558	0	75,513	0	62,463	0	49,412	0	36,361	0	23,309	0	10,162
1/4	88,286	1/4	75,241	1/4	62,191	1/4	49,140	1/4	36,089	1/4	23,037	1/4	9,956
1/2	88,015	1/2	74,969	1/2	61,919	1/2	48,868	1/2	35,817	1/2	22,766	1/2	9,686
3/4	87,743	3/4	74,697	3/4	61,647	3/4	48,596	3/4	35,545	3/4	22,494	3/4	9,406
1	87,471	1	74,425	1	61,375	1	48,324	1	35,273	1	22,222	1	9,157
1/4	87,199	1/4	74,154	1/4	61,103	1/4	48,052	1/4	35,001	1/4	21,950	1/4	8,908
1/2	86,927	1/2	73,882	1/2	60,832	1/2	47,780	1/2	34,729	1/2	21,678	1/2	8,658
3/4	86,655	3/4	73,610	3/4	60,560	3/4	47,508	3/4	34,457	3/4	21,406	3/4	8,413
2	86,383	2	73,338	2	60,288	2	47,237	2	34,185	2	21,134	2	8,167
1/4	86,112	1/4	73,066	1/4	60,016	1/4	46,965	1/4	33,913	1/4	20,862	1/4	7,922
1/2	85,840	1/2	72,795	1/2	59,744	1/2	46,693	1/2	33,642	1/2	20,590	1/2	7,677
3/4	85,568	3/4	72,523	3/4	59,472	3/4	46,421	3/4	33,370	3/4	20,318	3/4	7,435
3	85,296	3	72,251	3	59,200	3	46,149	3	33,098	3	20,047	3	7,194
1/4	85,024	1/4	71,979	1/4	58,928	1/4	45,877	1/4	32,826	1/4	19,775	1/4	6,952
1/2	84,752	1/2	71,708	1/2	58,656	1/2	45,605	1/2	32,554	1/2	19,503	1/2	6,711
3/4	84,481	3/4	71,436	3/4	58,384	3/4	45,333	3/4	32,282	3/4	19,231	3/4	6,473
4	84,209	4	71,164	4	58,113	4	45,061	4	32,010	4	18,959	4	6,235
1/4	83,937	1/4	70,892	1/4	57,841	1/4	44,789	1/4	31,738	1/4	18,687	1/4	5,997
1/2	83,665	1/2	70,620	1/2	57,569	1/2	44,518	1/2	31,466	1/2	18,415	1/2	5,760
3/4	83,393	3/4	70,348	3/4	57,297	3/4	44,246	3/4	31,194	3/4	18,143	3/4	5,526
5	83,121	5	70,076	5	57,025	5	43,974	5	30,923	5	17,871	5	5,292
1/4	82,850	1/4	69,804	1/4	56,753	1/4	43,702	1/4	30,651	1/4	17,599	1/4	5,058
1/2	82,578	1/2	69,532	1/2	56,481	1/2	43,430	1/2	30,379	1/2	17,328	1/2	4,824
3/4	82,306	3/4	69,260	3/4	56,209	3/4	43,158	3/4	30,107	3/4	17,056	3/4	4,594
6	82,034	6	68,989	6	55,937	6	42,886	6	29,835	6	16,782	6	4,364
1/4	81,763	1/4	68,717	1/4	55,665	1/4	42,614	1/4	29,563	1/4	16,510	1/4	4,134
1/2	81,491	1/2	68,445	1/2	55,394	1/2	42,342	1/2	29,291	1/2	16,238	1/2	3,903
3/4	81,219	3/4	68,173	3/4	55,122	3/4	42,070	3/4	29,019	3/4	15,966	3/4	3,677
7	80,947	7	67,901	7	54,850	7	41,799	7	28,747	7	15,694	7	3,451
1/4	80,676	1/4	67,629	1/4	54,578	1/4	41,527	1/4	28,475	1/4	15,422	1/4	3,224
1/2	80,404	1/2	67,357	1/2	54,306	1/2	41,255	1/2	28,204	1/2	15,150	1/2	2,998
3/4	80,132	3/4	67,085	3/4	54,034	3/4	40,983	3/4	27,932	3/4	14,878	3/4	2,778
8	79,860	8	66,813	8	53,762	8	40,711	8	27,660	8	14,606	8	2,557
1/4	79,589	1/4	66,541	1/4	53,490	1/4	40,439	1/4	27,388	1/4	14,334	1/4	2,336
1/2	79,317	1/2	66,270	1/2	53,218	1/2	40,167	1/2	27,116	1/2	14,062	1/2	2,116
3/4	79,045	3/4	65,998	3/4	52,946	3/4	39,895	3/4	26,844	3/4	13,790	3/4	1,915
9	78,773	9	65,726	9	52,675	9	39,623	9	26,572	9	13,518	9	1,715
1/4	78,502	1/4	65,454	1/4	52,403	1/4	39,351	1/4	26,300	1/4	13,246	1/4	1,514
1/2	78,230	1/2	65,182	1/2	52,131	1/2	39,080	1/2	26,028	1/2	12,974	1/2	1,313
3/4	77,958	3/4	64,910	3/4	51,859	3/4	38,808	3/4	25,756	3/4	12,702	3/4	1,154
10	77,687	10	64,638	10	51,587	10	38,536	10	25,484	10	12,430	10	995
1/4	77,415	1/4	64,366	1/4	51,315	1/4	38,264	1/4	25,213	1/4	12,158	1/4	836
1/2	77,143	1/2	64,094	1/2	51,043	1/2	37,992	1/2	24,941	1/2	11,886	1/2	676
3/4	76,871	3/4	63,822	3/4	50,771	3/4	37,720	3/4	24,669	3/4	11,614	3/4	516
11	76,600	11	63,551	11	50,499	11	37,448	11	24,397	11	11,342	11	356
1/4	76,328	1/4	63,279	1/4	50,227	1/4	37,176	1/4	24,125	1/4	11,070	1/4	196
1/2	76,056	1/2	63,007	1/2	49,956	1/2	36,904	1/2	23,853	1/2	10,798	1/2	36
3/4	75,784	3/4	62,735	3/4	49,684	3/4	36,632	3/4	23,581	3/4	10,526	3/4	176

GAUGE LOCATED 10'-9 5/8" OFF CENTERLINE OF VESSEL & 38"-2 1/2" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH  
 STRAPPED BY: JAB-DH  
**SAYBOLT LP**  
 03/05

*O. Enders*



**BARGE HFL-402**  
**HULL # 04-2207**

**2 PORT**  
 ULLAGE TABLE  
 GALLONS

**MANUAL GAUGE HEIGHT 16'-10 1/2"**

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.
0	104.101	89.026	73.954	58.868	43.783	28.698	13.613
1/4	103.787	88.713	73.639	58.554	43.469	28.384	13.299
1/2	103.472	88.399	73.325	58.240	43.155	28.070	12.985
3/4	103.158	88.085	73.011	57.926	42.840	27.755	12.670
1	102.844	87.771	72.696	57.611	42.526	27.441	12.356
1/4	102.530	87.458	72.382	57.297	42.212	27.127	12.042
1/2	102.215	87.144	72.068	56.983	41.898	26.813	11.727
3/4	101.901	86.830	71.754	56.668	41.583	26.498	11.413
2	101.587	86.517	71.439	56.354	41.269	26.184	11.099
1/4	101.272	86.203	71.125	56.040	40.955	25.870	10.785
1/2	100.958	85.889	70.811	55.726	40.641	25.555	10.470
3/4	100.644	85.575	70.496	55.411	40.326	25.241	10.156
3	100.330	85.261	70.182	55.097	40.012	24.927	9.842
1/4	100.015	84.948	69.868	54.783	39.698	24.613	9.528
1/2	99.701	84.634	69.554	54.469	39.383	24.298	9.213
3/4	99.387	84.320	69.239	54.154	39.069	23.984	8.899
4	99.072	84.006	68.925	53.840	38.755	23.670	8.585
1/4	98.758	83.692	68.611	53.526	38.441	23.356	8.271
1/2	98.444	83.379	68.297	53.211	38.126	23.041	7.956
3/4	98.130	83.065	67.982	52.897	37.812	22.727	7.642
5	97.815	82.751	67.668	52.583	37.498	22.413	7.328
1/4	97.501	82.437	67.354	52.269	37.184	22.098	7.014
1/2	97.187	82.123	67.039	51.954	36.869	21.784	6.700
3/4	96.873	81.809	66.725	51.640	36.555	21.470	6.386
6	96.559	81.494	66.411	51.326	36.241	21.156	6.073
1/4	96.245	81.180	66.097	51.012	35.926	20.841	5.759
1/2	95.931	80.866	65.782	50.697	35.612	20.527	5.445
3/4	95.617	80.552	65.468	50.383	35.298	20.213	5.132
7	95.303	80.238	65.154	50.069	34.984	19.899	4.819
1/4	94.989	79.924	64.840	49.754	34.669	19.584	4.506
1/2	94.675	79.610	64.525	49.440	34.355	19.270	4.193
3/4	94.361	79.296	64.211	49.126	34.041	18.956	3.881
8	94.047	78.981	63.897	48.812	33.727	18.641	3.569
1/4	93.733	78.667	63.582	48.497	33.412	18.327	3.257
1/2	93.419	78.353	63.268	48.183	33.098	18.013	2.945
3/4	93.105	78.039	62.954	47.869	32.784	17.699	2.636
9	92.791	77.725	62.640	47.555	32.469	17.384	2.329
1/4	92.478	77.411	62.325	47.240	32.155	17.070	2.019
1/2	92.164	77.096	62.011	46.926	31.841	16.756	1.710
3/4	91.850	76.782	61.697	46.612	31.527	16.442	1.460
10	91.536	76.468	61.383	46.297	31.212	16.127	1.209
1/4	91.223	76.153	61.068	45.983	30.898	15.813	998
1/2	90.909	75.839	60.754	45.669	30.584	15.499	
3/4	90.595	75.525	60.440	45.355	30.270	15.184	
11	90.281	75.211	60.125	45.040	29.955	14.870	
1/4	89.968	74.896	59.811	44.726	29.641	14.556	
1/2	89.654	74.582	59.497	44.412	29.327	14.242	
3/4	89.340	74.268	59.183	44.098	29.012	13.927	

GAUGE LOCATED 10'-10 1/8" OFF CENTERLINE OF VESSEL & 44'-2 1/2" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API NPMMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05  
 SAYBOLT LP

*O. Encinas*





**MANUAL GAUGE HEIGHT 16'-11"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	151,346	0	162,571	0	173,636	0	184,701	0	195,766
1/4	151,613	1/4	162,801	1/4	173,866	1/4	184,931	1/4	195,996
1/2	151,880	1/2	163,032	1/2	174,097	1/2	185,162	1/2	196,227
3/4	152,146	3/4	163,262	3/4	174,327	3/4	185,392	3/4	196,457
1	152,413	1	163,493	1	174,558	1	185,623	1	196,688
1/4	152,647	1/4	163,723	1/4	174,788	1/4	185,853	1/4	196,918
1/2	152,882	1/2	163,954	1/2	175,019	1/2	186,084	1/2	197,149
3/4	153,116	3/4	164,184	3/4	175,249	3/4	186,314	3/4	197,379
2	153,350	2	164,415	2	175,480	2	186,545	2	197,610
1/4	153,581	1/4	164,646	1/4	175,710	1/4	186,775	1/4	197,840
1/2	153,811	1/2	164,876	1/2	175,941	1/2	187,006	1/2	198,070
3/4	154,042	3/4	165,107	3/4	176,172	3/4	187,236	3/4	198,301
3	154,272	3	165,337	3	176,402	3	187,467	3	198,531
1/4	154,503	1/4	165,568	1/4	176,633	1/4	187,698	1/4	198,761
1/2	154,733	1/2	165,798	1/2	176,863	1/2	187,928	1/2	198,992
3/4	154,964	3/4	166,029	3/4	177,094	3/4	188,159	3/4	199,222
4	155,194	4	166,259	4	177,324	4	188,389	4	199,452
1/4	155,425	1/4	166,490	1/4	177,555	1/4	188,620	1/4	199,682
1/2	155,655	1/2	166,720	1/2	177,785	1/2	188,850	1/2	199,912
3/4	155,886	3/4	166,951	3/4	178,016	3/4	189,081	3/4	200,142
5	156,116	5	167,181	5	178,246	5	189,311	5	200,372
1/4	156,347	1/4	167,412	1/4	178,477	1/4	189,542	1/4	200,602
1/2	156,577	1/2	167,642	1/2	178,707	1/2	189,772	1/2	200,831
3/4	156,808	3/4	167,873	3/4	178,938	3/4	190,003	3/4	201,060
6	157,038	6	168,103	6	179,168	6	190,233	6	201,290
1/4	157,269	1/4	168,334	1/4	179,399	1/4	190,464	1/4	201,519
1/2	157,499	1/2	168,564	1/2	179,629	1/2	190,694	1/2	201,747
3/4	157,730	3/4	168,795	3/4	179,860	3/4	190,925	3/4	201,976
7	157,960	7	169,025	7	180,090	7	191,155	7	202,204
1/4	158,191	1/4	169,256	1/4	180,321	1/4	191,386	1/4	202,429
1/2	158,421	1/2	169,486	1/2	180,551	1/2	191,616	1/2	202,654
3/4	158,652	3/4	169,717	3/4	180,782	3/4	191,847	3/4	202,878
8	158,883	8	169,947	8	181,012	8	192,077	8	203,103
1/4	159,113	1/4	170,178	1/4	181,243	1/4	192,308	1/4	203,302
1/2	159,344	1/2	170,409	1/2	181,473	1/2	192,538	1/2	203,500
3/4	159,574	3/4	170,639	3/4	181,704	3/4	192,769	3/4	203,699
9	159,805	9	170,870	9	181,935	9	192,999	9	203,898
1/4	160,035	1/4	171,100	1/4	182,165	1/4	193,230	1/4	204,096
1/2	160,266	1/2	171,331	1/2	182,396	1/2	193,461		
3/4	160,496	3/4	171,561	3/4	182,626	3/4	193,691		
10	160,727	10	171,792	10	182,857	10	193,922		
1/4	160,957	1/4	172,022	1/4	183,087	1/4	194,152		
1/2	161,188	1/2	172,253	1/2	183,318	1/2	194,383		
3/4	161,418	3/4	172,483	3/4	183,548	3/4	194,613		
11	161,649	11	172,714	11	183,779	11	194,844		
1/4	161,879	1/4	172,944	1/4	184,009	1/4	195,074		
1/2	162,110	1/2	173,175	1/2	184,240	1/2	195,305		
3/4	162,340	3/4	173,405	3/4	184,470	3/4	195,535		

GAUGE LOCATED 11'-10" OFF CENTERLINE OF VESSEL & 44'-6 3/8" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05

*SAYBOLT LP*



**BARGE HFL-402**  
**HULL # 04-2207**

**3 STAR**  
 INNAGE TABLE  
 GALLONS

IN	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
	IN	0	IN	0	IN	0	IN	0	IN	0
0	151.325	0	162.623	0	173.705	0	184.787	0	195.868	0
1/4	151.640	1/4	162.854	1/4	173.936	1/4	185.018	1/4	196.099	1/4
1/2	151.939	1/2	163.085	1/2	174.167	1/2	185.248	1/2	196.330	1/2
3/4	152.202	3/4	163.316	3/4	174.398	3/4	185.479	3/4	196.561	3/4
1	152.443	1	163.547	1	174.628	1	185.710	1	196.792	1
1/4	152.684	1/4	163.778	1/4	174.859	1/4	185.941	1/4	197.023	1/4
1/2	152.924	1/2	164.008	1/2	175.090	1/2	186.172	1/2	197.254	1/2
3/4	153.157	3/4	164.239	3/4	175.321	3/4	186.403	3/4	197.485	3/4
2	153.388	2	164.470	2	175.552	2	186.634	2	197.715	2
1/4	153.619	1/4	164.701	1/4	175.783	1/4	186.864	1/4	197.946	1/4
1/2	153.850	1/2	164.932	1/2	176.014	1/2	187.095	1/2	198.177	1/2
3/4	154.081	3/4	165.163	3/4	176.244	3/4	187.326	3/4	198.408	3/4
3	154.312	3	165.394	3	176.475	3	187.557	3	198.639	3
1/4	154.543	1/4	165.624	1/4	176.706	1/4	187.788	1/4	198.869	1/4
1/2	154.774	1/2	165.855	1/2	176.937	1/2	188.019	1/2	199.100	1/2
3/4	155.004	3/4	166.086	3/4	177.168	3/4	188.250	3/4	199.330	3/4
4	155.235	4	166.317	4	177.399	4	188.481	4	199.561	4
1/4	155.466	1/4	166.548	1/4	177.630	1/4	188.711	1/4	199.792	1/4
1/2	155.697	1/2	166.779	1/2	177.861	1/2	188.942	1/2	200.022	1/2
3/4	155.928	3/4	167.010	3/4	178.091	3/4	189.173	3/4	200.252	3/4
5	156.159	5	167.241	5	178.322	5	189.404	5	200.483	5
1/4	156.390	1/4	167.471	1/4	178.553	1/4	189.635	1/4	200.713	1/4
1/2	156.621	1/2	167.702	1/2	178.784	1/2	189.866	1/2	200.943	1/2
3/4	156.851	3/4	167.933	3/4	179.015	3/4	190.097	3/4	201.173	3/4
6	157.082	6	168.164	6	179.246	6	190.328	6	201.402	6
1/4	157.313	1/4	168.395	1/4	179.477	1/4	190.558	1/4	201.632	1/4
1/2	157.544	1/2	168.626	1/2	179.708	1/2	190.789	1/2	201.861	1/2
3/4	157.775	3/4	168.857	3/4	179.938	3/4	191.020	3/4	202.090	3/4
7	158.006	7	169.088	7	180.169	7	191.251	7	202.319	7
1/4	158.237	1/4	169.318	1/4	180.400	1/4	191.482	1/4	202.547	1/4
1/2	158.467	1/2	169.549	1/2	180.631	1/2	191.713	1/2	202.775	1/2
3/4	158.698	3/4	169.780	3/4	180.862	3/4	191.944	3/4	202.999	3/4
8	158.929	8	170.011	8	181.093	8	192.175	8	203.222	8
1/4	159.160	1/4	170.242	1/4	181.324	1/4	192.405	1/4	203.445	1/4
1/2	159.391	1/2	170.473	1/2	181.554	1/2	192.636	1/2	203.661	1/2
3/4	159.622	3/4	170.704	3/4	181.785	3/4	192.867	3/4	203.857	3/4
9	159.853	9	170.934	9	182.016	9	193.098	9	204.043	9
1/4	160.084	1/4	171.165	1/4	182.247	1/4	193.329	1/4	204.229	1/4
1/2	160.314	1/2	171.396	1/2	182.478	1/2	193.560	1/2	204.406	1/2
3/4	160.545	3/4	171.627	3/4	182.709	3/4	193.791	3/4	204.582	3/4
10	160.776	10	171.858	10	182.940	10	194.021	10	204.758	10
1/4	161.007	1/4	172.089	1/4	183.171	1/4	194.252	1/4	204.934	1/4
1/2	161.238	1/2	172.320	1/2	183.401	1/2	194.483	1/2	205.110	1/2
3/4	161.469	3/4	172.551	3/4	183.632	3/4	194.714	3/4	205.286	3/4
11	161.700	11	172.781	11	183.863	11	194.945	11	205.462	11
1/4	161.931	1/4	173.012	1/4	184.094	1/4	195.176	1/4	205.638	1/4
1/2	162.161	1/2	173.243	1/2	184.325	1/2	195.407	1/2	205.814	1/2
3/4	162.392	3/4	173.474	3/4	184.556	3/4	195.638	3/4	205.990	3/4

GAUGE LOCATED 11'-7" OFF CENTERLINE OF VESSEL & 44'-7" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05

*Saybolt LP*

**SAYBOLT LP**

	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
IN	0	IN	0	IN	0	IN	0	IN	0	IN
	707	15,499	30,584	45,669	60,754	75,839	90,909	105,987	121,073	136,158
1/4	958	15,813	30,898	45,983	61,068	76,153	91,233	106,301	121,387	136,473
1/2	1,209	16,127	31,212	46,297	61,383	76,468	91,556	106,615	121,701	136,787
3/4	1,460	16,442	31,527	46,612	61,697	76,782	91,880	106,930	122,015	137,101
1	1,710	16,756	31,841	46,926	62,011	77,096	92,194	107,244	122,330	137,415
1/4	2,019	17,070	32,155	47,240	62,325	77,411	92,478	107,558	122,644	137,730
1/2	2,328	17,384	32,469	47,555	62,640	77,725	92,791	107,872	122,958	138,044
3/4	2,636	17,699	32,784	47,869	62,954	78,039	93,105	108,187	123,273	138,358
2	2,945	18,013	33,098	48,183	63,268	78,353	93,419	108,501	123,587	138,673
1/4	3,257	18,327	33,412	48,497	63,582	78,667	93,733	108,815	123,901	138,987
1/2	3,568	18,641	33,727	48,811	63,897	78,981	94,047	109,130	124,215	139,301
3/4	3,881	18,956	34,041	49,126	64,211	79,296	94,361	109,444	124,530	139,615
3	4,193	19,270	34,355	49,440	64,525	79,610	94,675	109,758	124,844	139,930
1/4	4,506	19,584	34,669	49,754	64,840	79,924	94,989	110,072	125,158	140,244
1/2	4,819	19,899	34,984	50,069	65,154	80,238	95,303	110,387	125,473	140,558
3/4	5,132	20,213	35,298	50,383	65,468	80,552	95,617	110,701	125,787	140,873
4	5,445	20,527	35,612	50,697	65,782	80,866	95,931	111,015	126,101	141,187
1/4	5,759	20,841	35,926	51,012	66,097	81,180	96,245	111,330	126,415	141,501
1/2	6,073	21,156	36,241	51,326	66,411	81,494	96,559	111,644	126,730	141,815
3/4	6,386	21,470	36,555	51,640	66,725	81,809	96,873	111,958	127,044	142,130
5	6,700	21,784	36,869	51,954	67,039	82,123	97,187	112,273	127,358	142,444
1/4	7,014	22,098	37,184	52,269	67,354	82,437	97,501	112,587	127,673	142,758
1/2	7,328	22,413	37,498	52,583	67,668	82,751	97,815	112,901	127,987	143,072
3/4	7,642	22,727	37,812	52,897	67,982	83,065	98,130	113,215	128,301	143,387
6	7,956	23,041	38,126	53,211	68,297	83,379	98,444	113,530	128,615	143,701
1/4	8,271	23,356	38,441	53,526	68,611	83,692	98,758	113,844	128,930	144,015
1/2	8,585	23,670	38,755	53,840	68,925	84,006	99,072	114,158	129,244	144,330
3/4	8,899	23,984	39,069	54,154	69,239	84,320	99,387	114,473	129,558	144,644
7	9,213	24,298	39,383	54,469	69,554	84,634	99,701	114,787	129,873	144,958
1/4	9,528	24,613	39,698	54,783	69,868	84,948	100,015	115,101	130,187	145,272
1/2	9,842	24,927	40,012	55,097	70,182	85,261	100,330	115,415	130,501	145,587
3/4	10,156	25,241	40,326	55,411	70,496	85,575	100,644	115,730	130,815	145,901
8	10,470	25,555	40,641	55,726	70,811	85,889	100,958	116,044	131,130	146,215
1/4	10,785	25,870	40,955	56,040	71,125	86,203	101,272	116,358	131,444	146,530
1/2	11,099	26,184	41,269	56,354	71,439	86,517	101,587	116,673	131,758	146,844
3/4	11,413	26,498	41,583	56,668	71,754	86,830	101,901	116,987	132,073	147,158
9	11,727	26,813	41,898	56,983	72,068	87,144	102,215	117,301	132,387	147,472
1/4	12,042	27,127	42,212	57,297	72,382	87,458	102,530	117,615	132,701	147,787
1/2	12,356	27,441	42,526	57,611	72,696	87,771	102,844	117,930	133,015	148,101
3/4	12,670	27,755	42,840	57,926	73,011	88,085	103,158	118,244	133,330	148,415
10	12,985	28,070	43,155	58,240	73,325	88,399	103,472	118,558	133,644	148,729
1/4	13,299	28,384	43,469	58,554	73,639	88,713	103,787	118,873	133,958	149,044
1/2	13,613	28,698	43,783	58,868	73,954	89,026	104,101	119,187	134,273	149,358
3/4	13,927	29,012	44,098	59,183	74,268	89,340	104,415	119,501	134,587	149,672
11	14,242	29,327	44,412	59,497	74,582	89,654	104,730	119,815	134,901	149,987
1/4	14,556	29,641	44,726	59,811	74,896	89,968	105,044	120,130	135,215	150,301
1/2	14,870	29,955	45,040	60,125	75,211	90,281	105,358	120,444	135,530	150,615
3/4	15,184	30,270	45,355	60,440	75,525	90,595	105,672	120,758	135,844	150,929

GAUGE LOCATED 10'-10 1/8" OFF CENTERLINE OF VESSEL & 44'-2 1/2" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.  
L.B.D.M. = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
COMPUTED BY: TH  
STRAPPED BY: JAB-DH  
SAYBOLT LP  
04/05  
03/05

**MANUAL GAUGE HEIGHT 16'-10 1/2"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	151,244	0	166,329	0	181,414	0	196,500	0	211,585
1/4	151,558	1/4	166,643	1/4	181,729	1/4	196,814	1/4	211,899
1/2	151,872	1/2	166,958	1/2	182,043	1/2	197,128	1/2	212,214
3/4	152,187	3/4	167,272	3/4	182,357	3/4	197,443	3/4	212,528
1	152,501	1	167,586	1	182,672	1	197,757	1	212,842
1/4	152,815	1/4	167,900	1/4	182,986	1/4	198,071	1/4	213,157
1/2	153,129	1/2	168,215	1/2	183,300	1/2	198,385	1/2	213,471
3/4	153,444	3/4	168,529	3/4	183,614	3/4	198,700	3/4	213,785
2	153,758	2	168,843	2	183,929	2	199,014	2	214,099
1/4	154,072	1/4	169,158	1/4	184,243	1/4	199,328	1/4	214,414
1/2	154,386	1/2	169,472	1/2	184,557	1/2	199,643	1/2	214,728
3/4	154,701	3/4	169,786	3/4	184,871	3/4	199,957	3/4	215,042
3	155,015	3	170,100	3	185,186	3	200,271	3	215,356
1/4	155,329	1/4	170,415	1/4	185,500	1/4	200,585	1/4	215,670
1/2	155,644	1/2	170,729	1/2	185,814	1/2	200,900	1/2	215,984
3/4	155,958	3/4	171,043	3/4	186,129	3/4	201,214	3/4	216,298
4	156,272	4	171,358	4	186,443	4	201,528	4	216,612
1/4	156,586	1/4	171,672	1/4	186,757	1/4	201,843	1/4	216,925
1/2	156,901	1/2	171,986	1/2	187,071	1/2	202,157	1/2	217,238
3/4	157,215	3/4	172,300	3/4	187,386	3/4	202,471	3/4	217,551
5	157,529	5	172,615	5	187,700	5	202,785	5	217,865
1/4	157,844	1/4	172,929	1/4	188,014	1/4	203,100	1/4	218,177
1/2	158,158	1/2	173,243	1/2	188,329	1/2	203,414	1/2	218,489
3/4	158,472	3/4	173,557	3/4	188,643	3/4	203,728	3/4	218,802
6	158,786	6	173,872	6	188,957	6	204,042	6	219,114
1/4	159,101	1/4	174,186	1/4	189,271	1/4	204,357	1/4	219,424
1/2	159,415	1/2	174,500	1/2	189,586	1/2	204,671	1/2	219,735
3/4	159,729	3/4	174,815	3/4	189,900	3/4	204,985	3/4	220,045
7	160,043	7	175,129	7	190,214	7	205,300	7	220,356
1/4	160,358	1/4	175,443	1/4	190,528	1/4	205,614	1/4	220,649
1/2	160,672	1/2	175,757	1/2	190,843	1/2	205,928	1/2	220,943
3/4	160,986	3/4	176,072	3/4	191,157	3/4	206,242	3/4	221,236
8	161,301	8	176,386	8	191,471	8	206,557	8	221,530
1/4	161,615	1/4	176,700	1/4	191,786	1/4	206,871	1/4	221,776
1/2	161,929	1/2	177,015	1/2	192,100	1/2	207,185	1/2	222,023
3/4	162,243	3/4	177,329	3/4	192,414	3/4	207,500	3/4	222,270
9	162,558	9	177,643	9	192,728	9	207,814	9	222,517
1/4	162,872	1/4	177,957	1/4	193,043	1/4	208,128	1/8	222,611
1/2	163,186	1/2	178,272	1/2	193,357	1/2	208,442		
3/4	163,501	3/4	178,586	3/4	193,671	3/4	208,757		
10	163,815	10	178,900	10	193,986	10	209,071		
1/4	164,129	1/4	179,214	1/4	194,300	1/4	209,385		
1/2	164,443	1/2	179,529	1/2	194,614	1/2	209,699		
3/4	164,758	3/4	179,843	3/4	194,928	3/4	210,014		
11	165,072	11	180,157	11	195,243	11	210,328		
1/4	165,386	1/4	180,472	1/4	195,557	1/4	210,642		
1/2	165,701	1/2	180,786	1/2	195,871	1/2	210,957		
3/4	166,015	3/4	181,100	3/4	196,186	3/4	211,271		

GAUGE LOCATED 10'-10 1/8" OFF CENTERLINE OF VESSEL & 44'-2 1/2" FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M. = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05

*J. Enders*

**SAYBOLT LP**

**BARGE HFL-402**  
**HULL # 04-2207**

**2 STAR**  
**INNAGE TABLE**  
**GALLONS**

**MANUAL GAUGE HEIGHT 16'-10 5/8"**

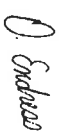
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	1.996	0	17.034	0	32.121	0	47.179	0	62.252	0
1/4	2.305	1/4	17.348	1/4	32.421	1/4	47.493	1/4	62.566	1/4
1/2	2.614	1/2	17.662	1/2	32.735	1/2	47.807	1/2	62.880	1/2
3/4	2.923	3/4	17.976	3/4	33.049	3/4	48.121	3/4	63.194	3/4
1	3.233	1	18.290	1	33.363	1	48.435	1	63.508	1
1/4	3.545	1/4	18.604	1/4	33.677	1/4	48.749	1/4	63.822	1/4
1/2	3.857	1/2	18.918	1/2	33.991	1/2	49.063	1/2	64.136	1/2
3/4	4.169	3/4	19.232	3/4	34.305	3/4	49.377	3/4	64.450	3/4
1	4.481	1	19.546	1	34.619	1	49.691	1	64.764	1
1/4	4.794	1/4	19.860	1/4	34.933	1/4	50.005	1/4	65.078	1/4
1/2	5.107	1/2	20.174	1/2	35.247	1/2	50.319	1/2	65.392	1/2
3/4	5.420	3/4	20.488	3/4	35.561	3/4	50.633	3/4	65.706	3/4
1	5.733	1	20.802	1	35.875	1	50.947	1	66.020	1
1/4	6.046	1/4	21.116	1/4	36.189	1/4	51.262	1/4	66.334	1/4
1/2	6.360	1/2	21.430	1/2	36.503	1/2	51.576	1/2	66.648	1/2
3/4	6.673	3/4	21.744	3/4	36.817	3/4	51.890	3/4	66.962	3/4
1	6.987	1	22.058	1	37.131	1	52.204	1	67.276	1
1/4	7.301	1/4	22.372	1/4	37.445	1/4	52.518	1/4	67.590	1/4
1/2	7.614	1/2	22.686	1/2	37.759	1/2	52.832	1/2	67.904	1/2
3/4	7.928	3/4	22.901	3/4	38.073	3/4	53.146	3/4	68.218	3/4
1	8.242	1	23.315	1	38.387	1	53.460	1	68.532	1
1/4	8.556	1/4	23.629	1/4	38.701	1/4	53.774	1/4	68.846	1/4
1/2	8.870	1/2	23.943	1/2	39.015	1/2	54.088	1/2	69.160	1/2
3/4	9.184	3/4	24.257	3/4	39.329	3/4	54.402	3/4	69.474	3/4
1	9.498	1	24.571	1	39.643	1	54.716	1	69.788	1
1/4	9.812	1/4	24.885	1/4	39.957	1/4	55.030	1/4	70.102	1/4
1/2	10.126	1/2	25.199	1/2	40.271	1/2	55.344	1/2	70.416	1/2
3/4	10.440	3/4	25.513	3/4	40.585	3/4	55.658	3/4	70.730	3/4
1	10.754	1	25.827	1	40.899	1	55.972	1	71.044	1
1/4	11.068	1/4	26.141	1/4	41.213	1/4	56.286	1/4	71.358	1/4
1/2	11.382	1/2	26.455	1/2	41.527	1/2	56.600	1/2	71.672	1/2
3/4	11.696	3/4	26.769	3/4	41.841	3/4	56.914	3/4	71.986	3/4
1	12.010	1	27.083	1	42.155	1	57.228	1	72.300	1
1/4	12.324	1/4	27.397	1/4	42.469	1/4	57.542	1/4	72.614	1/4
1/2	12.638	1/2	27.711	1/2	42.783	1/2	57.856	1/2	72.928	1/2
3/4	12.952	3/4	28.025	3/4	43.097	3/4	58.170	3/4	73.242	3/4
1	13.266	1	28.339	1	43.411	1	58.484	1	73.556	1
1/4	13.580	1/4	28.653	1/4	43.725	1/4	58.798	1/4	73.870	1/4
1/2	13.894	1/2	28.967	1/2	44.039	1/2	59.112	1/2	74.184	1/2
3/4	14.208	3/4	29.281	3/4	44.353	3/4	59.426	3/4	74.498	3/4
1	14.522	1	29.595	1	44.667	1	59.740	1	74.812	1
1/4	14.836	1/4	29.909	1/4	44.981	1/4	60.054	1/4	75.126	1/4
1/2	15.150	1/2	30.223	1/2	45.295	1/2	60.368	1/2	75.440	1/2
3/4	15.464	3/4	30.537	3/4	45.609	3/4	60.682	3/4	75.754	3/4
1	15.778	1	30.851	1	45.923	1	60.996	1	76.068	1
1/4	16.092	1/4	31.165	1/4	46.237	1/4	61.310	1/4	76.382	1/4
1/2	16.406	1/2	31.479	1/2	46.551	1/2	61.624	1/2	76.696	1/2
3/4	16.720	3/4	31.793	3/4	46.865	3/4	61.938	3/4	77.010	3/4

GAUGE LOCATED 11'-7 7/8" OFF CENTERLINE OF VESSEL & 44"-2 1/8"  
 FORWARD OF AFT BULKHEAD.

TABLE COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

L.B.D.M = 231'-6"

CHART IS CERTIFIED FOR THIS TANK ONLY.  
 COMPUTED BY: TH 04/05  
 STRAPPED BY: JAB-DH 03/05

SAYBOLT LP  


**BARGE HFL-402**  
**HULL # 04-2207**

**2 STAR**  
 INNAGE TABLE  
 GALLONS

**MANUAL GAUGE HEIGHT 16'-10 5/8"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	152,596	0	167,669	0	182,742	0	197,815	0	212,888
1/4	152,910	1/4	167,983	1/4	183,056	1/4	198,129	1/4	213,202
1/2	153,224	1/2	168,297	1/2	183,370	1/2	198,443	1/2	213,516
3/4	153,538	3/4	168,611	3/4	183,684	3/4	198,757	3/4	213,830
1	153,852	1	168,925	1	183,998	1	199,071	1	214,144
1/4	154,166	1/4	169,239	1/4	184,312	1/4	199,385	1/4	214,458
1/2	154,480	1/2	169,553	1/2	184,626	1/2	199,699	1/2	214,772
3/4	154,794	3/4	169,867	3/4	184,940	3/4	200,013	3/4	215,086
1	155,108	1	170,181	1	185,254	1	200,327	1	215,399
1/4	155,422	1/4	170,495	1/4	185,568	1/4	200,641	1/4	215,713
1/2	155,736	1/2	170,809	1/2	185,882	1/2	200,955	1/2	216,026
3/4	156,050	3/4	171,123	3/4	186,196	3/4	201,269	3/4	216,340
1	156,364	1	171,437	1	186,510	1	201,583	1	216,653
1/4	156,678	1/4	171,751	1/4	186,824	1/4	201,897	1/4	216,966
1/2	156,992	1/2	172,065	1/2	187,138	1/2	202,211	1/2	217,279
3/4	157,306	3/4	172,379	3/4	187,452	3/4	202,525	3/4	217,592
1	157,620	1	172,693	1	187,766	1	202,839	1	217,904
1/4	157,934	1/4	173,007	1/4	188,080	1/4	203,153	1/4	218,216
1/2	158,248	1/2	173,321	1/2	188,394	1/2	203,467	1/2	218,528
3/4	158,562	3/4	173,635	3/4	188,708	3/4	203,781	3/4	218,839
1	158,876	1	173,949	1	189,022	1	204,095	1	219,151
1/4	159,190	1/4	174,263	1/4	189,336	1/4	204,409	1/4	219,457
1/2	159,504	1/2	174,577	1/2	189,650	1/2	204,723	1/2	219,762
3/4	159,818	3/4	174,891	3/4	189,964	3/4	205,037	3/4	220,068
1	160,132	1	175,205	1	190,278	1	205,351	1	220,374
1/4	160,446	1/4	175,519	1/4	190,592	1/4	205,666	1/4	220,656
1/2	160,760	1/2	175,833	1/2	190,906	1/2	205,980	1/2	220,937
3/4	161,074	3/4	176,147	3/4	191,220	3/4	206,294	3/4	221,218
1	161,388	1	176,461	1	191,534	1	206,608	1	221,500
1/4	161,702	1/4	176,775	1/4	191,848	1/4	206,922	1/4	221,732
1/2	162,016	1/2	177,089	1/2	192,163	1/2	207,236	1/2	221,964
3/4	162,330	3/4	177,403	3/4	192,477	3/4	207,550	3/4	222,196
1	162,644	1	177,717	1	192,791	1	207,864	1	222,428
1/4	162,958	1/4	178,031	1/4	193,105	1/4	208,178	1/4	222,602
1/2	163,272	1/2	178,345	1/2	193,419	1/2	208,492	1/2	222,776
3/4	163,586	3/4	178,660	3/4	193,733	3/4	208,806	3/4	222,950
1	163,900	1	178,974	1	194,047	1	209,120	1	223,124
1/4	164,214	1/4	179,288	1/4	194,361	1/4	209,434		
1/2	164,528	1/2	179,602	1/2	194,675	1/2	209,748		
3/4	164,843	3/4	179,916	3/4	194,989	3/4	210,062		
1	165,157	1	180,230	1	195,303	1	210,376		
1/4	165,471	1/4	180,544	1/4	195,617	1/4	210,690		
1/2	165,785	1/2	180,858	1/2	195,931	1/2	211,004		
3/4	166,099	3/4	181,172	3/4	196,245	3/4	211,318		
1	166,413	1	181,486	1	196,559	1	211,632		
1/4	166,727	1/4	181,800	1/4	196,873	1/4	211,946		
1/2	167,041	1/2	182,114	1/2	197,187	1/2	212,260		
3/4	167,355	3/4	182,428	3/4	197,501	3/4	212,574		

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**SAYBOLT LP**

*J. Endicott*