

BARGE HFL-400

HULL NO 04-2206 ULLAGE TRIM CORRECTIONS

		1 ft	:	2 ft	3	3 ft		4 ft	!	5 ft	ı	6 ft
Dow	by BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	-00	00	-00	00	-00	00	-00	00	-00	00	-00	00
1 STARBOARD	00	00	00	00	00	00	00	00	00	00	00	00
2 PORT	-00	00	-00	00	-00	00	-00	00	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8
2 STARBOARD	-00	00	-00	00	-00	00	-00	00	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8
3 PORT	00	-00	00	-00	00	-00	00	-00	00	-00	00	-00
3 STARBOARD	00	-00	00	-00	00	-00	00	-00	00	-00	00	-00
SLOP PORT	-00- 1/8	3 00- 1/8	-00- 1/8	00- 1/8	-00- 2/8	00- 2/8	-00- 2/8	00- 2/8	-00- 3/8	00- 3/8	-00- 4/8	00- 4/8
SLOP STARBOARD	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8	-00- 2/8	00- 2/8	-00- 2/8	00- 2/8	-00- 3/8	00- 3/8	-00- 4/8	00- 4/8

DUE TO COMPARTMENT GEOMETRY TRIM TABLE READINGS FOR 3 PORT & 3 STAR APPLY ONLY TO GAUGES BELOW compartment break line at 6'-11 1/2".

FOR INNAGE GAUGES REVERSE SIGN OF TRIM CORRECTION

EXAMPLE FOR USE OF TRIM CORRECTION:

FWD DRAFT= 1'-0" AFT DRAFT = 6'-0"

DIFFERENCE = 5'-0" (DOWN BY STERN)

TRIM CORRECTION FOR 5'-0" DOWN BY STERN FOR 2 PORT IS 0'- 00-1/8 " TO OBSERVED ULLAGE GAUGE OF 3'-0" THE TRIM CORRECTED ULLAGE IS 3'-00-1/8 "

LENGTH BETWEEN DRAFT MARKS =

234 '

CHART IS CERTIFIED FOR THIS TANK ONLY.

COMPUTED BY:

JF

04/25/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

BARGE HFL-4UU HULL #04-2206

1 PORT
ULLAGE TABLE
MANUAL GAUGING

GALLONS

MANUAL GAUGE HEIGHT 16'-11"

1915-0	INOME C	MOG	neighi	1 () -														
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	179,527	0	166,488	0	153,448	0	140,408	0	127,369	0	114,329	0	101,289
1/4		1/4		1/4		1/4	179,256	1/4	166,216	1/4	153,176	1/4	140,137	1/4	127,097	1/4	114,057	1/4	101,018
1/2		1/2		1/2		1/2	178,984	1/2	165,944	1/2	152,905	1/2	139,865	1/2	126,825	1/2		1/2	100,746
3/4		3/4		3/4		3/4	178,712	3/4	165,673	3/4	152,633	3/4	139,593	3/4	126,554	3/4		3/4	100,474
1		1		1		1	178,441	1	165,401	1	152,361	1	139,322	1	126,282	1	113,242	1	100,203
1/4		1/4		1/4		1/4	178,169	1/4	165,129	1/4	152,090	1/4	139,050	1/4	126,010	1/4	112,971	1/4	99,931
1/2		1/2		1/2		1/2	177,897	1/2	164,858	1/2	151,818	1/2	138,778	1/2	125,739	1/2	112,699	1/2	99,659
3/4		3/4		3/4	190,413	3/4	177,626	3/4	164,586	3/4	151,546	3/4	138,507	3/4	125,467	3/4	112,427	3/4	99,388
2		2		2	190,215	2	177,354	2	164,314	2	151,275	2	138,235	2	125,195	2	112,156	2	99,116
1/4		1/4		1/4	190,001	1/4	177,082	1/4	164,043	1/4	151,003	1/4	137,963	1/4	124,924	1/4	111,884	1/4	98,844
1/2		1/2		1/2	189,772	1/2	176,811	1/2	163,771	1/2	150,731	1/2	137,692	1/2	124,652	1/2	111,612	1/2	98,573
3/4		3/4		3/4	189,528	3/4	176,539	3/4	163,499	3/4	150,460	3/4	137,420	3/4	124,380	3/4	111,341	3/4	98,301
3		3		3	189,271	3	176,268	3	163,228	3	150,188	3	137,148	3	124,109	3	111,069	3	98,029
1/4		1/4		1/4	189,006	1/4	175,996	1/4	162,956	1/4	149,916	1/4	136,877	1/4	123,837	1/4	110,797	1/4	97,758
1/2		1/2		1/2	188,739	1/2	175,724	1/2	162,685	1/2	149,645	1/2	136,605	1/2	123,565	1/2	110,526	1/2	97,486
3/4	response with the same of the same of	3/4		3/4	188,470	3/4	175,453	3/4	162,413	3/4	149,373	3/4	136,333	3/4	123,294	3/4	110,254	3/4	97,214
4		4		4	188,202	4	175,181	4	162,141	4	149,102	4	136,062	4	123,022	4	109,982	4	96,943
1/4		1/4		1/4	187,933	1/4	174,909	1/4	161,870	1/4	148,830	1/4	135,790	1/4	122,750	1/4	109,711	1/4	96,671
1/2		1/2		1/2	187,663	1/2	174,638	1/2	161,598	1/2	148,558	1/2	135,519	1/2	122,479	1/2	109,439	1/2	96,399
3/4	********	3/4		3/4	187,393	3/4	174,366	3/4	161,326	3/4	148,287	3/4	135,247	3/4	122,207	3/4	109,167	3/4	96,128
5		5		5	187,123	5	174,094	5	161,055	5	148,015	5	134,975	5	121,936	5	108,896	5	95,856
1/4		1/4		1/4	186,853	1/4	173,823	1/4	160,783	1/4	147,743	1/4	134,704	1/4	121,664	1/4	108,624	1/4	95,584
1/2		1/2		1/2	186,583	1/2	173,551	1/2	160,511	1/2	147,472	1/2	134,432	1/2	121,392	1/2	108,353	1/2	95,313
3/4		3/4		3/4	186,312	3/4	173,279	3/4	160,240	3/4	147,200	3/4	134,160	3/4	121,121	3/4	108,081	3/4	95,041
6		6		6	186,042	6	173,008	6	159,968	6	146,928	6	133,889	6	120,849	6	107,809	6	94,770
1/4		1/4		1/4	185,771	1/4	172,736	1/4	159,696	1/4	146,657	1/4	133,617	1/4	120,577	1/4	107,538	1/4	94,498
1/2		1/2		1/2	185,500	1/2	172,464	1/2	159,425	1/2	146,385	1/2	133,345	1/2	120,306	1/2	107,266	1/2	94,226
3/4		3/4		3/4	185,229	3/4	172,193	3/4	159,153	3/4	146,113	3/4	133,074	3/4	120,034	3/4	106,994	3/4	93,955
7		7		7	184,957	7	171,921	7	158,881	7	145,842	7	132,802	7	119,762	7	106,723	7	93,683
1/4		1/4		1/4	184,686	1/4	171,649	1/4	158,610	1/4	145,570	1/4	132,530	1/4	119,491	1/4	106,451	1/4	93,411
/2		1/2		1/2	184,415	1/2	171,378	1/2	158,338	1/2	145,298	1/2	132,259	1/2	119,219	1/2	106,179	1/2	93,140
3/4		3/4		3/4	184,143	3/4	171,106	3/4	158,066	3/4	145,027	3/4	131,987	3/4	118,947	3/4	105,908	3/4	92,868
3		8		8	183,872	8	170,834	8	157,795	8	144,755	8	131,715	8	118,676	8	105,636	8	92,596
1/4		1/4		1/4	183,600	1/4	170,563	1/4	157,523	1/4	144,483	1/4	131,444	1/4	118,404	1/4	105,364	1/4	92,325
1/2		1/2		1/2	183,329	1/2	170,291	1/2	157,251	1/2	144,212	1/2	131,172	1/2	118,132	1/2	105,093	1/2	92,053
1/4		3/4		3/4	183,057	3/4	170,019	3/4	156,980	3/4	143,940	3/4	130,900	3/4	117,861	3/4	104,821	3/4	91,781
		9		9	182,787	9	169,748	9	156,708	9	143,668	9	130,629	9	117,589	9	104,549	9	91,510
/4		1/4		1/4	182,516	1/4	169,476	1/4	156,436	1/4	143,397	1/4	130,357	1/4	117,317	1/4	104,278	1/4	91,238
12		1/2		1/2	182,244	1/2	169,204	1/2	156,165	1/2	143,125	1/2	130,085	1/2	117,046	1/2	104,006	1/2	90,966
/4		3/4		3/4	181,972	3/4	168,933	3/4	155,893	3/4	142,853	3/4	129,814	3/4	116,774	3/4	103,734	3/4	90,695
0		10		10	181,701	10	168,661	10	155,621	10	142,582	10	129,542	10	116,502	10	103,463	10	90,423
/4		1/4		1/4	181,429	1/4	168,389	1/4	155,350	1/4	142,310	1/4	129,270	1/4	116,231	1/4	103,191	1/4	90,151
/2.		1/2		1/2	181,157	1/2	168,118	1/2	155,078	1/2	142,038	1/2	128,999	1/2	115,959	1/2	102,919	1/2	89,880
/4		3/4		3/4	180,886	3/4	167,846	3/4	154,806	3/4	141,767	3/4	128,727	3/4	115,687	3/4	102,648	3/4	89,608
1		11		11	180,614	11	167,574	11	154,535	11	141,495	11	128,455	11	115,416	111	102,376	111	89,336
/4		1/4		1/4	180,342	1/4	167,303	1/4	154,263	1/4	141,223	1/4	128,184	1/4	115,144	1/4	102,104	1/4	89,065
/2		1/2		1/2	180,071	1/2	167,031	1/2	153,991	1/2	140,952	1/2	127,912	1/2	114,872	1/2	101,833	1/2	88,793
14		3/4		3/4	179,799	3/4	166,759	3/4	153,720	3/4	140,680	3/4	127,640	3/4	114,601	3/4	101,561	3/4	88,521

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

A Endrew

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05
SAYBOLT LP

BAKGE HFL-400 HULL #04-2206

1 PORT

ULLAGE TABLE MANUAL GAUGING 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	88,250	0	75,210	0	62,170	0	49,132	0	36,095	0	23,055	0	10,335
1/4	87,978	1/4	74,938	1/4	61,899	1/4	48,861	1/4	35,823	1/4	22,784	1/4	10,088
1/2	87,706	1/2	74,667	1/2	61,627	1/2	48,589	1/2	35,551	1/2	22,512	1/2	9,842
3/4	87,435	3/4	74,395	3/4	61,355	3/4	48,318	3/4	35,280	3/4	22,241	3/4	9,597
1	87,163	1	74,123	1	61,084	1	48,046	1	35,008	1	21,969	1	9.352
1/4	86,891	1/4	73,852	1/4	60,812	1/4	47,774	1/4	34,736	1/4	21,697	1/4	9,109
1/2	86,620	1/2	73,580	1/2	60,540	1/2	47,503	1/2	34,465	1/2	21,426	1/2	8,867
3/4	86,348	3/4	73,308	3/4	60,269	3/4	47,231	3/4	34,193	3/4	21,154	3/4	8,625
2	86,076	2	73,037	2	59 ,997	2	46,960	2	33,921	2	20,882	2	8,385
1/4	85,805	1/4	72,765	1/4	59,725	1/4	46,688	1/4	33,650	1/4	20,611	1/4	8,145
1/2	85,533	1/2	72,493	1/2	59,454	1/2	46,416	1/2	33,378	1/2	20,339	1/2	7,906
3/4	85,261	3/4	72,222	3/4	59,182	3/4	46,145	3/4	33,107	3/4	20,067	3/4	7,668
3	84,990	3	71,950	3	58,910	3	45,873	3	32,835	3	19,796	3	7,431
/4	84,718	1/4	71,678	1/4	58,639	1/4	45,602	1/4	32,563	1/4	19,524	1/4	7,195
/2	84,446	1/2	71,407	1/2	58,367	1/2	45,330	1/2	32,292	1/2	19,252	1/2	6,960
1/4	84,175	3/4	71,135	3/4	58,095	3/4	45,058	3/4	32,020	3/4	18,981	3/4	6,725
	83,903	4	70,863	4	57,824	4	44,787	4	31,748	4	18,709	4	6,492
14	83,631	1/4	70,592	1/4	57,552	1/4	44,515	1/4	31,477	1/4	18,437	1/4	6,259
/2	83,360	1/2	70,320	1/2	57,280	1/2	44,244	1/2	31,205	1/2	18,166	1/2	6,027
/4	83,088	3/4	70,048	3/4	57,009	3/4	43,972	3/4	30,933	3/4	17,894	3/4	5,796
	82,816	5	69,77 7	5	56,737	5	43,700	5	30,662	5	17,623	5	5,566
14	82,545	1/4	69,505	1/4	56,465	1/4	43,429	1/4	30,390	1/4	17,351	1/4	5,337
/2	82,273	1/2	69,233	1/2	56,194	1/2	43,157	1/2	30,118	1/2	17,081	1/2	5,109
/4	8 2 ,001	3/4	68,962	3/4	55,922	3/4	42,886	3/4	29,847	3/4	16,810	3/4	4,882
	81,730	6	68,690	6	55,651	6	42,614	6	29,575	6	16,540	6	4,656
14	81,458	1/4	68,418	1/4	55,379	1/4	42,342	1/4	29,303	1/4	16,271	1/4	4,431
/2	81,187	1/2	68,147	1/2	55,108	1/2	42,071	1/2	29,032	1/2	16,003	1/2	4,206
/4	80,915	3/4	67,875	3/4	54,836	3/4	41,799	3/4	28,760	3/4	15,735	3/4	3,983
	80,643	7	67,604	7	54,564	7	41,528	7	28,488	7	15,469	7	3,761
/4	80,372	1/4	67,332	1/4	54,293	1/4	41,256	1/4	28,217	1/4	15,203	1/4	3,539
2	80,100	1/2	67,060	1/2	54,021	1/2	40,984	1/2	27,945	1/2	14,939	1/2	3,319
4	79,828	3/4	66,789	3/4	53,750	3/4	40,713	3/4	27,674	3/4	14,675	3/4	3,100
	79,557	8	66,517	8	53,478	8	40,441	8	27,402	8	14,412	8	2,882
4	79,285	1/4	66,245	1/4	53,206	1/4	40,169	1/4	27,130	1/4	14,150	1/4	2,665
2	79,013	1/2	65,974	1/2	52,935	1/2	39,898	1/2	26,859	1/2	13,889	1/2	2,449
4	78,742	3/4	65,702	3/4	52,663	3/4	39,626	3/4	26,587	3/4	13,629	3/4	2,234
	78,470	9	65,430	9	52,392	9	39,354	9	26,315	9	13,370	9	2,020
4	78,198	1/4	65,159	1/4	52,120	1/4	39,083	1/4	26,044	1/4	13,112	1/4	1,808
2	77,927	1/2	64,887	1/2	51,848	1/2	38,811	1/2	25,772	1/2	12,855	1/2	1,598
4	77,655	3/4	64,615	3/4	51,577	3/4	38,540	3/4	25,500	3/4	12,599	3/4	1,395
	77 ,383	10	64,344	10	51,305	10	38,268	10	25,229	10	12,343	10	1,204
4	77,112	1/4	64,072	1/4	51,034	1/4	37,996	1/4	24,957	1/4	12,089	1/4	1,028
2	76,840	1/2	63,800	1/2	50,762	1/2	37,725	1/2	24,685	1/2	11,836	1/2	866
4	76,568	3/4	63,529	3/4	50,490	3/4	37,453	3/4	24,414	3/4	11,583	3/4	719
	76,297	11	63,257	11	50,219	11	37,181	11	24,142	11	11,331	11	586
4	76,025	1/4	62,985	1/4	49,947	1/4	36,910	1/4	23,870	1/4	11,081		
2	75,753	1/2	62,714	1/2	49,676	1/2	36,638	1/2	23,599	1/2	10,831]	
4	75,482	3/4	62,442	3/4	49,404	3/4	36,366	3/4	23,327	3/4	10,582	1	•

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endresi

BARGE HFL-400 HULL #04-2206

1 STARBOARD

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IVIA	NUAL GAUG	L HEIGHT TO	-113/0														
IN	O FT. IN	1 FT. IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0		0	179,936	0	166,898	0	153,861	О	140,824	0	127,786	0	114,749	0	101,712
1/4	1/4	1/4		1/4	179,664	1/4	166,627	1/4	153,589	1/4	140,552	1/4	127,515	1/4	114,478	1/4	101,440
1/2	1/2	1/2		1/2	179,392	1/2	166,355	1/2	153,318	1/2	140,280	1/2	127,243	1/2	114,206	1/2	101,169
3/4	3/4	3/4		3/4	179,121	3/4	166,083	3/4	153,046	3/4	140,009	3/4	126,972	3/4	113,934	3/4	100,897
1	1	1		1	178,849	1	165,812	1	152,775	1	139,737	1	126,700	1	113,663	11	100,625
1/4	1/4	1/4		1/4	178,577	1/4	165,540	1/4	152,503	1/4	139,466	1/4	126,428	1/4	113,391	1/4	100,354
1/2	1/2	1/2		1/2	178,306	1/2	165,269	1/2	152,231	1/2	139,194	1/2	126,157	1/2	113,119	1/2	100,082
3/4	3/4	3/4		3/4	178,034	3/4	164,997	3/4	151,960	3/4	138,922	3/4	125,885	3/4	112,848	3/4	99,811
2	2	2-1/8	190,367	2	177,763	2	164,725	2	151,688	2	138,651	2	125,614	2	112,576	2	99,539
1/4	1/4	1/4	190,272	1/4	177,491	1/4	164,454	1/4	151,416	1/4	138,379	1/4	125,342	1/4	112,305	1/4	99,267
1/2	1/2	1/2	190,075	1/2	177,219	1/2	164,182	1/2	151,145	1/2	138,108	1/2	125,070	1/2	112,033	1/2	98,996
3/4	3/4	3/4	189,863	3/4	176,948	3/4	163,911	3/4	150,873	3/4	137,836	3/4	124,799	3/4	111,761	3/4	98,724
3	3	3	189,635	3	176,676	3	163,639	3	150,602	3	137,564	3	124,527	3	111,490	3	98,453
1/4	1/4	1/4	189,393	1/4	176,405	1/4	163,367	1/4	150,330	1/4	137,293	1/4	124,255	1/4	111,218	1/4	98,181
1/2	1/2	1/2	189,138	1/2	176,133	1/2	163,096	1/2	150,058	1/2	137,021	1/2	123,984	1/2	110,947	1/2	97,909
3/4	3/4	3/4	188,874	3/4	175,861	3/4	162,824	3/4	149,787	3/4	136,750	3/4	123,712	3/4	110,675	3/4	97,638
4	4	4	188,606	4	175,590	4	162,552	4	149,515	4	136,478	4	123,441	4	110,403	4	97,366
1/4	1/4	1/4	188,338	1/4	175,318	1/4	162,281	1/4	149,244	1/4	136,206	1/4	123,169	1/4	110,132	1/4	97,094
1/2	1/2	1/2	188,070	1/2	175,047	1/2	162,009	1/2	148,972	1/2	135,935	1/2	122,897	1/2	109,860	1/2	96,823
3/4	3/4	3/4	187,800	3/4	174,775	3/4	161,738	3/4	148,700	3/4	135,663	3/4	122,626	3/4	109,589	3/4	96,551
5	5	5	187,531	5	174,503	5	161,466	5	148,429	5	135,391	5	122,354	5	109,317	5	96,280
1/4	1/4	1/4	187,261	1/4	174,232	1/4	161,194	1/4	148,157	1/4	135,120	1/4	122,083	1/4	109,045	1/4	96,008
1/2	1/2	1/2	186,991	1/2	173,960	1/2	160,923	1/2	147,886	1/2	134,848	1/2	121,811	1/2	108,774	1/2	95,736
3/4	3/4	3/4	186,721	3/4	173,688	3/4	160,651	3/4	147,614	3/4	134,577	3/4	121,539	3/4	108,502	3/4	95,465
6	6	6	186,451	6	173,417	6	160,380	6	147,342	6	134,305	6	121,268	6	108,230	6	95,193
1/4	1/4	1/4	186,180	1/4	173,145	1/4	160,108	1/4	147,071	1/4	134,033	1/4	120,996	1/4	107,959	1/4	94,922
1/2	1/2	1/2	185,909	1/2	172,874	1/2	159,836	1/2	146,799	1/2	133,762	1/2	120,725	1/2	107,687	1/2	94,650
3/4	3/4	3/4	185,638	3/4	172,602	3/4	159,565	3/4	146,527	3/4	133,490	3/4	120,453	3/4	107,416	3/4	94,378
7	7	7	185,367	7	172,330	7	159,293	7	146,256	7 -	133,219	7	120,181	7	107,144	17 -	94,107
1/4	1/4	1/4	185,096	1/4	172,059	1/4	159,022	1/4	145,984	1/4	132,947	1/4	119,910	1/4	106,872	1/4	93,835
1/2	1/2	1/2	184,825	1/2	171,787	1/2	158,750	1/2	145,713	1/2	132,675	1/2	119,638	1/2	106,601	3/4	93,564 93,292
3/4	3/4	3/4	184,554	3/4	171,516	3/4	158,478	3/4	145,441	3/4	132,404	3/4	119,366	3/4	106,329		93,292
8	8	8	184,282	8	171,244	8	158,207	8	145,169	8	132,132	8	119,095	8	106,058	1/4	92,749
1/4	1/4	1/4	184,011	1/4	170,972	1/4	157,935	1/4	144,898	1/4	131,861	1/4	118,823	1/4	105,786	1/2	92,477
1/2	1/2	1/2	183,739	1/2	170,701	1/2	157,663	1/2	144,626	1/2	131,589	1/2	118,552	1/2	105,514	3/4	92,205
3/4	3/4	3/4	183,468	3/4	170,429	3/4	157,392	3/4	144,355	3/4	131,317	3/4	118,280	3/4	105,243		91,934
9	9	9	183,196	9	170,158	9	157,120	9	144,083	9	131,046	9	118,008	9	104,971	9 1/4	91,662
1/4	1/4	1/4	182,924	1/4	169,886	1/4	156,849	1/4	143,811	1/4	130,774	1/4	117,737	1/4	104,700	1/2	91,391
1/2	1/2	1/2	182,653	1/2	169,614	1/2	156,577	1/2	143,540	1/2	130,502	1/2	117,465	1/2	104,428	3/4	91,119
3/4	3/4	3/4	182,380	3/4	169,343	3/4	156,305	3/4	143,268	3/4	130,231	3/4	117,194	3/4	104,156		
10	10	10	182,108	10	169,071	10	156,034	10	142,997	10	129,959	10	116,922	10	103,885	10	90,847
1/4	1/4	1/4	181,837	1/4	168,800	1/4	155,762	1/4	142,725	1/4	129,688	1/4	116,650	1/4	103,613	1/4	90,576
1/2	1/2	. 1/2	181,565	1/2	168,528	1/2	155,491	1/2	142,453	1/2	129,416	1/2	116,379	1/2	103,341	3/4	90,304
3/4	3/4	3/4	181,294	3/4	168,256	3/4	155,219	3/4	142,182	3/4	129,144	3/4	116,107	3/4	103,070	11	89,761
11	11	11	181,022	11	167,985	111	154,947	111	141,910	11	128,873	111	115,836	111	102,798	1/4	89,489
1/4	1/4	1/4	180,750	1/4	167,713	1/4	154,676	1/4	141,639	1/4	128,601	1/4	115,564	1/4	102,527	1/2	89,218
1/2	1/2	1/2	180,479	1/2	167,441	1/2	154,404	1/2	141,367	1/2	128,330	1/2	115,292	1/2	102,255	3/4	88,946
3/4	3/4	3/4	180,207	3/4	167,170	3/4	154,133	3/4	141,095	3/4	128,058	3/4	115,021	3/4	101,983	3/4	00,340

GAUGE LOCATED 11'-4" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
\$TRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

(). Endrew

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

1 STARBUARD

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

1411	HAOWE O	7700	F 11F1C11	1 10	-113/0								
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN.	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	88,675	0	75,637	0	62,600	0	49,564	0	36,529	0	23,492	0	10,735
1/4	88,403	1/4	75,366	1/4	62,328	1/4	49,293	1/4	36,257	1/4	23,220	1/4	10,486
1/2	88,131	1/2	75,094	1/2	62,057	1/2	49,021	1/2	35,986	1/2	22,948	1/2	10,239
3/4	87,860	3/4	74,822	3/4	61,785	3/4	48,749	3/4	35,714	3/4	22,677	3/4	9,992
1	87,588	1	74,551	1	61,514	1	48,478	1	35,442	1	22,405	1	9,747
1/4	87,317	1/4	74,279	1/4	61,242	1/4	48,206	1/4	35,171	1/4	22,133	1/4	9,502
1/2	87,045	1/2	74,008	1/2	60,970	1/2	47,935	1/2	34,899	1/2	21,862	1/2	9,258
3/4	86,773	3/4	73,736	3/4	60,699	3/4	47,663	3/4	34,628	3/4	21,590	3/4	9,015
2	86,502	2	73,464	2	60,427	2	47,392	2	34,356	2	21,319	2	8,774
1/4	86,230	1/4	73,193	1/4	60,156	1/4	47,120	1/4	34,084	1/4	21,047	1/4	8,532
1/2	85,958	1/2	72,921	1/2	59,884	1/2	46,849	1/2	33,813	1/2	20,775	1/2	8,292
3/4	85,687	3/4	72,650	3/4	59,612	3/4	46,577	3/4	33,541	3/4	20,504	3/4	8,053
3	85,415	3	72,378	3	59,341	3	46,305	3	33,270	3	20,232	3	7,814
1/4	85,144	1/4	72,106	1/4	59,069	1/4	46,034	1/4	32,998	1/4	19,961	1/4	7,577
1/2	84,872	1/2	71,835	1/2	58,797	1/2	45,762	1/2	32,726	1/2	19,689	1/2	7,340
3/4	84,600	3/4	71,563	3/4	58,526	3/4	45,491	3/4	32,455	3/4	19,417	3/4	7,104
4	84,329	4	71,292	4	58,254	4	45,219	4	32,183	4	19,146	4	6,869
1/4	84,057	1/4	71,020	1/4	57,983	1/4	44,948	1/4	31,911	1/4	18,874	1/4	6,635
1/2	83,786	1/2	70,748	1/2	57,711	1/2	44,676	1/2	31,640	1/2	18,603	1/2	6,402
3/4	83,514	3/4	70,477	3/4	57,439	3/4	44,405	3/4	31,368	3/4	18,331	3/4	6,170
5	83,242	5	70,205	5	57,168	5	44,133	5	31,097	5	18,059	5	5,938
1/4	82,971	1/4	69,933	1/4	56,896	1/4	43,862	1/4	30,825	1/4	17,788	1/4	5,708
1/2	82,699	1/2	69,662	1/2	56,625	1/2	43,590	1/2	30,553	1/2	17,517	1/2	5,478
3/4	82,428	3/4	69,390	3/4	56,353	3/4	43,318	3/4	30,282	3/4	17,246	3/4	5,250
6	82,156	6	69,119	6	56,081	6	43,047	6	30,010	6	16,975	6	5,022
1/4	81,884	1/4	68,847	1/4	55,810	1/4	42,775	1/4	29,739	1/4	16,705	1/4	4,795
1/2	81,613	1/2	68,575	1/2	55,538	1/2	42,504	1/2	29,467	1/2	16,435	1/2	4,569
3/4	81,341	3/4	68,304	3/4	55,267	3/4	42,232	3/4	29,195	3/4	16,166	3/4	4,345
7	81,069	7	68,032	7	54,995	7	41,961	7	28,924	7	15,898	7	4,121
1/4	80,798	1/4	67,761	1/4	54,724	1/4	41,689	1/4	28,652	1/4	15,631	1/4	3,898
1/2	80,526	1/2	67,489	1/2	54,452	1/2	41,418	1/2	28,381	1/2	15,365	1/2	3,676
3/4	80,255	3/4	67,217	3/4	54,180	3/4	41,146	3/4	28,109	3/4	15,100	3/4	3,455
В	79,983	8	66,946	8	53,909	8	40,874	8	27,837	8	14,836	8	3,235
1/4	79,711	1/4	66,674	1/4	53,637	1/4	40,603	1/4	27,566	1/4	14,572	1/4	3,016
1/2	79,440	1/2	66,403	1/2	53,366	1/2	40,331	1/2	27,294	1/2	14,310	1/2	2,799
3/4	79,168	3/4	66,131	3/4	53,094	3/4	40,060	3/4	27,022	3/4	14,049	3/4	2,582
9	78,897	9	65,859	9	52,823	9	39,788	9	26,751	9	13,788	9	2,367
1/4	78,625	1/4	65,588	1/4	52,551	1/4	39,516	1/4	26,479	1/4	13,528	1/4	2,152
1/2	78,353	1/2	65,316	1/2	52,280	1/2	39,245	1/2	26,208	1/2	13,270	1/2	1,939
3/4	78,082	3/4	65,044	3/4	52,008	3/4	38,973	3/4	25,936	3/4	13,012	3/4	1,728
10	77,810	10	64,773	10	51,736	10	38,702	10	25,664	10	12,755	10	1,521
1/4	77,539	1/4	64,501	1/4	51,465	1/4	38,430	1/4	25,393	1/4	12,499	1/4	1,323
1/2	77,267	1/2	64,230	1/2	51,193	1/2	38,158	1/2	25,121	1/2	12,245	1/2	1,137
3/4	76,995	3/4	63,958	3/4	50,922	3/4	37,887	3/4	24,850	3/4	11,991	3/4	966
11	76,724	11	63,686	111	50,650	111	37,615	11	24,578	111	11,737	11	810
1/4	76,452	1/4	63,415	1/4	50,379	1/4	37,344	1/4	24,306	1/4	11,485	1/4	668
1/2	76,180	1/2	63,143	1/2	50,107	1/2	37,072	1/2	24,035	1/2	11,234	3/8	601
3/4	75,909	3/4	62,872	3/4	49,836	3/4	36,800	3/4	23,763	3/4	10,984	1	
3/4	73,303	19/4	32,072	J 5/ T	70,000	13,1	00,000	10, 1					

GAUGE LOCATED 11'-4" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endreso

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

2 PORT

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-10 7/8"

0 0 0 0 0 2107.68 0 2107.68 0 2107.68 0 2107.68 0 2107.69 0 2107.6	IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	TT	4 FT.	T T									
144						2 (1.			IN		IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
12 112 112 20,119 17 29,598 17 193,276 17 193,275 17 193,285 17 193												~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~								
344 346 346 346 346 346 346 346 346 346 347 348 346 347 348	THE PERSON OF PERSONS																			
1	CONTRACTOR OF TAXABLE PARTY.																			
146			1		1						-						3/4			
1/2			1/4		1/4												1			
344																				
2						222 632														
1/2																				
3/4	1/2																\rightarrow			
3	3/4																			
1/4	3			***********																
1/2	1/4	*****																		
	1/2																			
1	3/4		3/4																	
14	4		4																	
1/2	1/4																			
3/4 3/4 219,861 3/4 204,764 3/4 189,642 3/4 174,521 3/6 159,399 3/4 144,278 3/4 129,156 3/4 114,035 5 5 5 5 5 5 5 5 5																				
5	3/4																			
1/4	5								_+											
1/2	1/4																			
3/4	1/2		1/2		1/2				_+											
8 6 B 218,301 6 203,188 6 188,067 6 172,946 6 142,703 6 127,581 6 112,460 1/4 1/4 217,988 1/4 202,873 1/4 187,752 1/4 172,631 1/4 127,581 1/4 127,581 1/2 127,581 1/2 127,674 1/2 202,558 1/2 187,752 1/4 172,315 1/2 157,194 1/2 144,2388 1/4 127,566 1/4 111,183 1/4 3/4 3/4 3/4 202,243 3/4 187,122 3/4 157,090 3/4 156,897 3/4 141,758 3/4 126,931 1/4 116,00 171,698 7 156,864 7 141,443 7 226,321 3/4 186,897 7 171,698 7 156,864 7 141,443 7 126,321 7 111,515 172 114 141,128 1/4 126,306 1/4 <td>3/4</td> <td></td> <td></td> <td></td> <td>3/4</td> <td></td>	3/4				3/4															
14	6		6		в	218,301	6	203,188		188.067										
1/2	1/4				1/4															
	1/2		1/2		1/2				1/2											
	3/4		3/4		3/4	217,361	3/4		3/4	187,122	3/4		3/4							
14	7					217,047		201,928	7	186,807	7	171,685	7	156,564	7	141,443	7	126,321	7	111,200
	1/4											171,370	1/4		1/4	141,128		126,006	1/4	110,885
B	1/2													155,934	1/2	140,812	1/2	125,691		
1/4 1/4 215,475 1/4 200,353 1/4 185,232 1/4 170,110 1/4 154,989 1/4 139,867 1/4 124,746 1/4 109,625 1/2 1/2 1/2 220,038 1/2 184,917 1/2 169,795 1/2 154,674 1/2 139,552 1/2 124,431 1/2 109,309 1/4 3/4 3/4 214,846 3/4 199,723 3/4 184,602 3/4 169,480 3/4 154,359 3/4 139,237 3/4 109,099 9 9 214,531 9 199,408 9 184,287 9 169,165 9 154,044 9 138,922 9 123,801 9 108,679 1/4 1/4 214,216 1/4 199,093 1/4 183,972 1/4 168,850 1/4 153,729 1/4 138,607 1/4 123,486 1/4 108,679 1/2 1/2 1/2	3/4			~			3/4					170,740	3/4	155,619	3/4	140,497	3/4		3/4	
1/2	В					215,790						170,425		155,304	8	140,182		125,061		
	1/4													154,989	1/4	139,867				
9 9 124,531 9 199,408 9 184,287 9 169,165 9 154,044 9 138,922 9 123,801 9 108,679 1/4 1/4 214,216 1/4 199,093 1/4 183,972 1/4 168,850 1/4 153,729 1/4 138,607 1/4 123,486 1/4 108,364 1/2 1/2 213,901 1/2 198,778 1/2 183,657 1/2 168,535 1/2 153,414 1/2 138,292 1/2 123,171 1/2 108,049 1/4 3/4 3/4 213,586 3/4 198,463 3/4 183,342 3/4 168,220 3/4 153,099 3/4 137,977 3/4 122,856 3/4 107,734 1/4 1/4 1/4 212,955 1/4 197,833 1/4 182,711 1/4 167,590 1/4 152,469 1/4 137,347 1/4 122,226 1/4 107,104 1/2 1/2 1/2 212,639 1/2 197,518 1/2 182,396 1/2 167,275 1/2 152,154 1/2 137,032 1/2 121,911 1/2 106,789 1/4 1/4 1/4 1/4 1/4 1/4 196,573 1/4 181,766 11 166,645 11 151,208 1/4 136,087 1/4 120,966 1/4 105,844 1/4 1/4 1/4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,529 1/2 1/2 1/2 211,379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	1/2																			
1/4 1/4 1/4 214,216 1/4 199,093 1/4 183,972 1/4 168,850 1/4 153,729 1/4 138,607 1/4 123,486 1/4 108,364 1/2 1/2 1/2 213,901 1/2 198,778 1/2 183,657 1/2 168,535 1/2 153,414 1/2 138,292 1/2 123,171 1/2 108,049 1/4 3/4 3/4 213,586 3/4 198,463 3/4 183,342 3/4 168,220 3/4 153,099 3/4 137,977 3/4 122,856 3/4 107,734 0 10 10 213,271 10 198,148 10 183,026 10 167,905 10 152,784 10 137,662 10 122,541 10 107,419 1/4 1/4 1/4 212,955 1/4 197,833 1/4 182,711 1/4 167,590 1/4 152,154 10 122,541 10 107,104 1/2 1/2 1/2 1/2 1/2 182,396 1/2 167,275 1/2 152,154 1/2 137,303 1/4 106,789 1/4 3/4 3/4	3/4																			
1/2 1/2 1/2 13,901 1/2 198,778 1/2 183,657 1/2 168,535 1/2 153,414 1/2 138,292 1/2 123,171 1/2 108,049 1/4 3/4 3/4 213,586 3/4 198,463 3/4 183,342 3/4 168,220 3/4 153,099 3/4 137,977 3/4 122,856 3/4 107,734 1/4 1/4 1/4 212,955 1/4 197,833 1/4 182,711 1/4 167,590 1/4 152,469 1/4 137,347 1/4 122,226 1/4 107,104 1/2 1/2 11,234 3/4 197,518 1/2 182,081 3/4 166,960 3/4 151,839 3/4 136,717 3/4 121,596 3/4 106,789 1/4 1/4 1/4 212,324 3/4 197,203 3/4 182,081 3/4 166,960 3/4 151,839 3/4 136,717 3/4 121,281 11 106,789 1/4 1/4 1/4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,529 1/2 1/2 1/2 11,2379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	9																			
3/4 3/4 213,586 3/4 198,463 3/4 183,342 3/4 168,220 3/4 153,099 3/4 137,977 3/4 122,856 3/4 107,734	1/4																			
10 10 213,271 10 198,148 10 183,026 10 167,905 10 152,784 10 137,662 10 122,541 10 107,419 1/4 1/4 212,955 1/4 197,833 1/4 182,711 1/4 167,590 1/4 152,469 1/4 137,347 1/4 122,226 1/4 107,104 1/2 1/2 212,639 1/2 197,518 1/2 182,396 1/2 167,275 1/2 152,154 1/2 137,032 1/2 121,911 1/2 106,789 1/4 3/4 3/4 212,324 3/4 197,203 3/4 182,081 3/4 166,960 3/4 151,839 3/4 136,717 3/4 121,596 3/4 106,474 1 11 11 212,009 11 196,888 11 181,766 11 166,645 11 151,523 11 136,402 11 121,281 11 106,159 1/4 1/4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,844 1/2 1/2 1/2 1/2 211,379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	1/2																			
/4 1/4 1/4 212,955 1/4 197,833 1/4 182,711 1/4 167,590 1/4 152,469 1/4 137,347 1/4 122,226 1/4 107,104 /2 1/2 1/2 212,639 1/2 197,518 1/2 182,396 1/2 167,275 1/2 152,154 1/2 137,032 1/2 121,911 1/2 106,789 /4 3/4 3/4 212,324 3/4 197,203 3/4 182,081 3/4 166,960 3/4 151,839 3/4 136,717 3/4 121,596 3/4 106,474 1 11 11 212,009 11 196,888 11 181,766 11 166,645 11 151,523 11 136,402 11 121,281 11 106,159 /4 1/4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,844 /2 1/2 1/2 211,379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 1	3/4						3/4													
1/2 1/2 1/2 212,639 1/2 197,518 1/2 182,396 1/2 167,275 1/2 152,154 1/2 137,032 1/2 121,911 1/2 106,789 1/4 3/4 3/4 212,324 3/4 197,203 3/4 182,081 3/4 151,839 3/4 136,717 3/4 121,596 3/4 106,474 1 11 11 212,009 11 196,888 11 181,766 11 166,645 11 151,523 11 136,402 11 121,281 11 106,159 1/4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,844 1/2 1/2 1/2 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	10																			
7/4 3/4 3/4 212,324 3/4 197,203 3/4 182,081 3/4 166,960 3/4 151,839 3/4 136,717 3/4 121,596 3/4 106,474 1 11 11 212,009 11 196,888 11 181,766 11 166,645 11 151,523 11 136,402 11 121,281 11 106,159 /4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,844 /2 1/2 1/2 211,379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	1/4																			
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/4 1/4 1/4 211,694 1/4 196,573 1/4 181,451 1/4 166,330 1/4 151,208 1/4 136,087 1/4 120,966 1/4 105,844 /2 1/2 1/2 1/2 211,379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	3/4																			
1/2 1/2 1/2 211,379 1/2 196,258 1/2 181,136 1/2 166,015 1/2 150,893 1/2 135,772 1/2 120,651 1/2 105,529	11																			
(4)	1/4					··/·														
1	1/2																			
	3/4		3/4		3/4	211,064	3/4	195,943	3/4	180,821	3/4	165,700	3/4	150,578	3/4	135,457	3/4	120,336	3/4	105,214

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-1" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.

COMPUTED BY: JF 03/16/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

2 PORT

ULLAGE TABLE MANUAL GAUGING 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	104,899	0	89,778	0	74,656	0	59,536	0	44,417	0	29,295	0	14,174
1/4	104,584	1/4	89,463	1/4	74,341	1/4	59,221	1/4	44,102	1/4	28,980	1/4	13,859
1/2	104,269	1/2	89,148	1/2	74,026	1/2	58,906	1/2	43,787	1/2	28,665	1/2	13,544
3/4	103,954	3/4	88,833	3/4	73,711	3/4	58,591	3/4	43,472	3/4	28,350	3/4	13,229
1	103,639	11	88,517	1	73,396	1	58,276	1	43,157	1	28,035	1	12,914
1/4	103,324	1/4	88,202	1/4	73,081	1/4	57,961	1/4	42,842	1/4	27,720	1/4	12,599
1/2	103,009	1/2	87,887	1/2	72,766	1/2	57,646	1/2	42,526	1/2	27,405	1/2	12,284
3/4	102,694	3/4	87,572	3/4	72,451	3/4	57,331	3/4	42,211	3/4	27,090	3/4	11,969
2	102,379	2	87,257	2	72,136	2	57,016	2	41,896	2	26,775	2	11,654
1/4	102,064	1/4	86,942	1/4	71,821	1/4	56,701	1/4	41,581	1/4	26,460	1/4	11,339
1/2	101,749	1/2	86,627	1/2	71,506	1/2	56,386	1/2	41,266	1/2	26,145	1/2	11,023
3/4	101,434	3/4	86,312	3/4	71,191	3/4	56,071	3/4	40,951	3/4	25,830	3/4	10,708
3	101,119	3	85,997	3	70,876	3	55,756	3	40,636	3	25,515	3	10,393
/4	100,804	1/4	85,682	1/4	70,561	1/4	55,442	1/4	40,321	1/4	25,200	1/4	10,078
/2	100,489	1/2	85,367	1/2	70,246	1/2	55,127	1/2	40,006	1/2	24,885	1/2	9,764
1/4	100,174	3/4	85,052	3/4	69,931	3/4	54,812	3/4	39,691	3/4	24,570	3/4	9,449
-	99,859	4	84,737	4	69,616	4	54,497	4	39,376	4	24,255	4	9,134
/4	99,544	1/4	84,422	1/4	69,301	1/4	54,182	1/4	39,061	1/4	23,940	1/4	8,819
/2	99,229	1/2	84,107	1/2	68,986	1/2	53,867	1/2	38,746	1/2	23,625	1/2	8,504
3/4	98,913	3/4	83,792	3/4	68,671	3/4	53,552	3/4	38,431	3/4	23,310	3/4	8,190
5	98,598	5	83,477	5	68,356	5	53,237	5	38,116	5	22,995	5	7,875
1/4	98,283	1/4	83,162	1/4	68,041	1/4	52,922	1/4	37,801	1/4	22,680	1/4	7,561
/2	97,968	1/2	82,847	1/2	67,725	1/2	52,607	1/2	37,486	1/2	22,365	1/2	7,247
1/4	97,653	3/4	82,532	3/4	67,410	3/4	52,292	3/4	37,171	3/4	22,050	3/4	6,933
	97,338	6	82,217	6	67,095	6	51,977	6	36,856	6	21,735	6	6,619
14	97,023	1/4	81,902	1/4	66,780	1/4	51,662	1/4	36,541	1/4	21,419	1/4	6,305
/2	96,708	1/2	81,587	1/2	66,465	1/2	51,347	1/2	36,226	1/2	21,104	1/2	5,991
14	96,393	3/4	81,272	3/4	66,150	3/4	51,032	3/4	35,911	3/4	20,789	3/4	5,678
	96,078	7	80,957	7	65,836	7	50,717	7	35,596	7	20,474	7	5,365
/4	95,763	1/4	80,642	1/4	65,521	1/4	50,402	1/4	35,281	1/4	20,159	1/4	5,052
12	95,448	1/2	80,327	1/2	65,206	1/2	50,087	1/2	34,966	1/2	19,844	1/2	4,740
14	95,133	3/4	80,012	3/4	64,891	3/4	49,772	3/4	34,651	3/4	19,529	3/4	4,427
	94,818	8	79,697	8	64,576	8	49,457	8	34,336	8	19,214	8	4,116
/4	94,503	1/4	79,382	1/4	64,261	1/4	49,142	1/4	34,021	1/4	18,899	1/4	3,804
/2	94,188	1/2	79,067	1/2	63,946	1/2	48,827	1/2	33,706	1/2	18,584	1/2	3,493
/4	93,873	3/4	78,752	3/4	63,631	3/4	48,512	3/4	33,391	3/4	18,269	3/4	3,183
	93,558	9	78,437	9	63,316	9	48,197	9	33,076	9	17,954	9	2,873
4	93,243	1/4	78,122	1/4	63,001	1/4	47,882	1/4	32,761	1/4	17,639	1/4	2,565
2	92,928	1/2	77,806	1/2	62,686	1/2	47,567	1/2	32,446	1/2	17,324	1/2	2,264
4	92,613	3/4	77,491	3/4	62,371	3/4	47,252	3/4	32,131	3/4	17,009	3/4	1,978
)	92,298	10	77,176	10	62,056	10	46,937	10	31,815	10	16,694	10	1,711
4	91,983	1/4	76,861	1/4	61,741	1/4	46,622	1/4	31,500	1/4	16,379	1/4	1,464
2	91,668	1/2	76,546	1/2	61,426	1/2	46,307	1/2	31,185	1/2	16,064	1/2	1,236
4	91,353	3/4	76,231	3/4	61,111	3/4	45,992	3/4	30,870	3/4	15,749	3/4	1,028
1	91,038	11	75,916	11	60,796	11	45,677	11	30,555	11	15,434	7/8	929
14	90,723	1/4	75,601	1/4	60,481	1/4	45,362	1/4	30,240	1/4	15,119		
/2	90,408	1/2	75,286	1/2	60,166	1/2	45,047	1/2	29,925	1/2	14,804		
14	90,093	3/4	74,971	3/4	59,851	3/4	44,732	3/4	29,610	3/4	14,489	1	

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-1" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

(). Endrew

BARGE HFL-400 HULL #04-2206

2 STARBOARD

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/4	223 0 907 1/4 591 1/2 275 3/4 959 1 643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	121,049 120,733 120,417 120,101 119,785 119,469 119,153 118,837 118,520 118,204 117,888
0 0 0 196,918 0 181,744 0 166,571 0 151,397 0 138 1/4 1/4 1/4 1/4 211,776 1/4 196,602 1/4 181,428 1/4 166,255 1/4 151,081 1/4	223 0 907 1/4 591 1/2 275 3/4 959 1 643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	121,049 120,733 120,417 120,101 119,785 119,469 119,153 118,837 118,520 118,204 117,888
1/4	907 1/4 591 1/2 275 3/4 959 1 643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	120,733 120,417 120,417 120,101 119,785 119,469 119,153 118,837 118,520 118,204
1/2	591 1/2 275 3/4 959 1 643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	120,417 120,101 119,785 119,469 119,153 118,837 118,520 118,204 117,888
3/4 3/4 3/4 3/4 211,144 3/4 195,970 3/4 180,796 3/4 165,622 3/4 150,449 3/4 135	275 3/4 959 1 643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	120,101 119,785 119,469 119,153 118,837 118,520 118,204 117,888
1	959 1 643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	119,785 119,469 119,153 118,837 118,520 118,204 117,888
1/4 1/4 1/4 1/4 210,511 1/4 195,338 1/4 180,164 1/4 164,990 1/4 149,816 1/4 134 3/4 3/4 7/8 224,312 3/4 209,879 3/4 194,705 3/4 179,532 3/4 149,500 1/2 134 2 2 2 22,24,219 2 209,563 2 194,389 2 179,215 2 164,042 2 148,688 2 133 1/4 1/4 1/4 224,024 1/4 209,247 1/4 194,389 2 179,215 2 164,042 2 148,688 2 133 1/2 1/2 1/2 223,811 1/2 208,931 1/2 193,757 1/2 178,589 1/4 163,726 1/4 148,552 1/4 133 3/4 3/4 3/4 208,615 3/4 193,441 3/4 178,269 1/2 183,499 <	643 1/4 326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	119,469 119,153 118,837 118,520 118,204 117,888
1/2	326 1/2 010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	119,153 118,837 118,520 118,204 117,888
3/4 3/4 3/4 3/4 224,312 3/4 209,879 3/4 194,705 3/4 179,532 3/4 164,358 3/4 149,184 3/4 3/4 3/4 11/4 11/4 224,024 1/4 209,563 2 194,389 2 179,215 2 164,042 2 148,868 2 133 1/2 1/2 1/2 1/2 223,811 1/2 208,931 1/2 193,757 1/2 178,589 1/4 163,726 1/4 148,552 1/4 133 3/4 3/4 3/4 3/4 208,615 3/4 193,441 3/4 178,267 3/4 163,093 3/4 147,920 3/4 133 3 3 3 3 3 3 3 3	010 3/4 694 2 378 1/4 062 1/2 746 3/4 430 3	118,837 118,520 118,204 117,888
1/4	694 2 378 1/4 062 1/2 746 3/4 430 3	118,520 118,204 117,888
1/2	378 1/4 062 1/2 746 3/4 430 3	118,204 117,888
1/2	062 1/2 746 3/4 430 3	117,888
3 3 3 223,334 3 208,299 3 193,125 3 175,267 3/4 163,093 3/4 147,920 3/4 132, 125 3 175,267 3/4 163,093 3/4 147,920 3/4 132, 125 3 175,267 3/4 163,093 3/4 147,920 3/4 132, 125 3 175,267 3/4 163,093 3/4 147,920 3/4 132, 125 3 175,267 3/4 163,093 3/4 147,603 3 132, 125 3 177,951 3 162,777 3 147,603 3 132, 125 3 177,951 3 162,777 3 147,603 3 132, 125 3 177,951 3 162,777 3 147,603 3 132, 125 3 177,951 3 162,777 3 147,287 1/4 132, 132 1/2 1/2 1/2 222,786 1/2 207,666 1/2 192,493 1/2 177,319 <td>430 3</td> <td></td>	430 3	
1/4 1/4 1/4 1/4 223,068 1/4 207,982 1/4 192,809 1/4 177,635 1/4 162,777 3 147,603 3 132,123 1/2 1/2 1/2 1/2 222,786 1/2 207,666 1/2 192,493 1/2 177,319 1/2 162,465 1/2 146,971 1/2 131, 3/4 3/4 3/4 207,350 3/4 192,176 3/4 177,003 3/4 161,829 3/4 146,655 3/4 131, 4 4 4 222,179 4 207,034 4 191,860 4 176,687 4 161,513 4 146,339 4 131, 1/4 .		1 117,072
1/2 1/2 1/2 1/2 1/2 222,786 1/2 207,666 1/2 192,809 1/4 177,635 1/4 162,461 1/4 147,287 1/4 132,239 3/4 3/4 3/4 222,786 1/2 207,666 1/2 192,493 1/2 177,319 1/2 162,145 1/2 146,655 3/4 131, 4 4 4 222,179 4 207,034 4 191,860 4 176,687 4 161,513 4 146,339 4 131, 1/4 . 1/4 1/4 206,718 1/4 191,544 1/4 176,687 4 161,513 4 146,023 1/4 130, 1/2 1/2 1/2 221,555 1/2 206,718 1/4 191,228 1/2 176,687 4 161,513 4 146,023 1/4 130, 1/2 1/2 1/2 221,655 1/2 206,718 <	114 1/4	117,256
3/4 3/4 3/4 3/4 222,487 3/4 207,050 1/2 132,433 1/2 162,145 1/2 146,971 1/2 131,44 4 4 4 222,179 4 207,034 4 191,860 4 176,687 4 161,829 3/4 146,635 3/4 131,4 1/4 . 1/4 1/4 221,868 1/4 206,718 1/4 191,860 4 176,687 4 161,829 3/4 146,6339 4 131, 1/2 1/4 1/4 221,868 1/4 206,718 1/4 191,544 1/4 176,687 4 161,513 4 146,6339 4 131, 1/2 1/2 1/2 221,555 1/2 206,718 1/4 191,544 1/4 176,053 1/2 160,881 1/2 146,023 1/4 130, 3/4 3/4 3/4 221,243 3/4 206,086 3/4		116,940
4 4 4 222,179 4 207,034 4 191,860 4 176,687 4 161,513 4 146,635 3/4 131,14 1/4 .	797 1/2	116,624
1/4 . 1/4 1/4 221,868 1/4 206,718 1/4 191,544 1/4 176,370 1/4 161,513 4 146,339 4 131, 1/2 1/2 1/2 221,555 1/2 206,402 1/2 191,228 1/2 176,054 1/2 160,881 1/2 145,707 1/2 130, 3/4 3/4 3/4 221,243 3/4 206,086 3/4 190,912 3/4 175,738 3/4 160,564 3/4 145,391 3/4 130, 5 5 5 220,930 5 205,770 5 190,596 5 175,422 5 160,248 5 145,075 5 129, 1/4 1/4 1/4 220,616 1/4 205,453 1/4 190,280 1/4 175,106 1/4 159,932 1/4 144,758 1/4 129, 1/2 1/2 1/2 220,302 1/2 205,137	481 3/4	116,308
1/2 1/2 1/2 221,555 1/2 206,402 1/2 191,228 1/2 176,054 1/4 161,197 1/4 146,023 1/4 130, 3/4 3/4 3/4 221,243 3/4 206,086 3/4 190,912 3/4 175,738 3/4 160,881 1/2 145,391 3/4 130, 5 5 5 220,930 5 205,770 5 190,596 5 175,732 5 160,564 3/4 145,391 3/4 130, 1/4 1/4 1/4 220,616 1/4 205,453 1/4 190,280 1/4 175,106 1/4 159,932 1/4 144,758 1/4 129, 1/2 1/2 1/2 220,302 1/2 205,137 1/2 189,964 1/2 174,790 1/2 159,616 1/2 144,442 1/2 129,	165 4	115,991
3/4 3/4 3/4 221,243 3/4 206,086 3/4 190,912 3/4 175,738 3/4 160,881 1/2 145,707 1/2 13/4 5 5 5 5 220,930 5 205,770 5 190,596 5 175,738 3/4 160,684 3/4 145,391 3/4 130, 1/4 1/4 1/4 220,616 1/4 205,453 1/4 190,280 1/4 175,106 1/4 159,932 1/4 144,758 1/4 129, 1/2 1/2 1/2 220,302 1/2 205,137 1/2 189,964 1/2 174,790 1/2 159,616 1/2 144,442 1/2 129,	849 1/4	115,675
5 5 5 220,930 5 205,770 5 190,596 5 175,738 3/4 165,391 3/4 145,391 3/4 130, 1/4 1/4 1/4 220,616 1/4 205,453 1/4 190,280 1/4 175,106 1/4 159,932 1/4 144,758 1/4 129, 1/2 1/2 220,302 1/2 205,137 1/2 189,964 1/2 174,790 1/2 159,616 1/2 144,442 1/2 129,		115,359
1/4 1/4 1/4 220,616 1/4 205,453 1/4 190,280 1/4 175,106 1/4 159,932 1/4 144,758 1/4 129, 1/2 1/2 220,302 1/2 205,137 1/2 189,964 1/2 174,790 1/2 159,616 1/2 144,442 1/2 129,		
1/2 1/2 1/2 220,302 1/2 205,137 1/2 189,964 1/2 174,790 1/2 159,616 1/2 144,442 1/2 129,		114,727
2/4 2/4 2/4 2/4 2/4 2/4 2/4 2/4 2/4 2/4		114,411
3/4 3/4 13/4 219,988 3/4 204,821 3/4 189,647 3/4 174,474 3/4 159,300 3/4 144,136 3/4 138		114,095
6 310 673 374 139,300 374 144,126 374 128,		
144 143,810 6 128,		113,463
110 110 110 110 110 110 110 110 110 110		113,146
1/2		112,830
7 7 218.413 7 203.241 7 188,067 7 172,893 7 157,719 7 142,546 7 127,6		112,514 112,198
1/4 1/4 218,098 1/4 202,924 1/4 187,751 1/4 172,577 1/4 157,403 1/4 142,229 1/4 127,		111,882
1/2 1/2 217,783 1/2 202,608 1/2 187,435 1/2 172,261 1/2 157,087 1/2 141,913 1/2 126,7		111,566
3/4 3/4 3/4 217,467 3/4 202,292 3/4 187,118 3/4 171,945 3/4 156,771 3/4 141,597 3/4 126,4		111,250
8 8 217,151 8 201,976 8 186,802 8 171,629 8 156,455 8 141,281 8 126,		110,934
1/4 1/4 1/4 216,835 1/4 201,660 1/4 186,486 1/4 171,312 1/4 156,139 1/4 140,965 1/4 125,		110,617
1/2 1/2 1/2 216,519 1/2 201,344 1/2 186,170 1/2 170,996 1/2 155,823 1/2 140,649 1/2 125,4		110,301
3/4 3/4 216,203 3/4 201,028 3/4 185,854 3/4 170,680 3/4 155,506 3/4 140,333 3/4 125,1		109,985
9 9 215,887 9 200,712 9 185,538 9 170,364 9 155,190 9 140,017 9 124,6		109,669
1/4 1/4 1/4 215,571 1/4 200,396 1/4 185,222 1/4 170,048 1/4 154,874 1/4 139,700 1/4 124,5		109,353
1/2 1/2 1/2 215,255 1/2 200,079 1/2 184,906 1/2 169,732 1/2 154,558 1/2 139,384 1/2 124,2	11 1/2	109,037
3/4 3/4 214.937 3/4 199.763 3/4 184.590 3/4 169.416 3/4 154.242 3/4 139.068 3/4 123.6	94 3/4	108,721
10 10 10 214,621 10 199,447 10 184,273 10 169,100 10 153,926 10 138,752 10 123,5	78 10	108,405
1/4 1/4 214,305 1/4 199.131 1/4 183,957 1/4 168,784 1/4 153,610 1/4 138,436 1/4 123,2	62 1/4	108,088
1/2 1/2 1/2 213,989 1/2 198,815 1/2 183,641 1/2 168,467 1/2 153,294 1/2 138,120 1/2 122.5		107,772
3/4 3/4 213,673 3/4 198,499 3/4 183,325 3/4 168,151 3/4 152,978 3/4 137,804 3/4 122,6		107,456
11 11 213,356 11 198,183 11 183,009 11 167,835 11 152,661 11 137,488 11 122,3		107,140
1/4 1/4 213,040 1/4 197,867 1/4 182,693 1/4 167,519 1/4 152,345 1/4 137,172 1/4 121,9		106,824
1/2 1/2 1/2 212,724 1/2 197,550 1/2 182,377 1/2 167,203 1/2 152,029 1/2 136,855 1/2 121,6	82 1/2	100 500
3/4 3/4 3/4 212,408 3/4 197,234 3/4 182,061 3/4 166,887 3/4 151,713 3/4 136,539 3/4 121,3		106,508

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
\$TRAPPED BY: CA-JAB-DH-JF 03/07/05



SAYBULLLP

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

2 STARBOARD

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	105,876	0	90,702	0	75,528	0	60,356	0	45,184	0	30,010	0	14,836
1/4	105,560	. 1/4	90,386	1/4	75,212	1/4	60,040	1/4	44,868	1/4	29,694	1/4	14,520
1/2	105,243	1/2	90,070	1/2	74,896	1/2	59,723	1/2	44,552	1/2	29,378	1/2	14,204
3/4	104,927	3/4	89,754	3/4	74,580	3/4	59,407	3/4	44,235	3/4	29,062	3/4	13,888
-	104,611	1	89,437	1	74,264	1	59,091	1	43,919	1	28,746	1	13,572
1/4	104,295	1/4	89,121	1/4	73,948	1/4	58,775	1/4	43,603	1/4	28,429	1/4	13,256
1/2	103,979	1/2	88,805	1/2	73,631	1/2	58,459	1/2	43,287	1/2	28,113	1/2	12,940
3/4	103,663	3/4	88,489	3/4	73,315	3/4	58,143	3/4	42,971	3/4	27,797	3/4	12,623
-	103,347	2	88,173	2	72,999	2	57,827	2	42,655	2	27,481	2	12,307
14	103,031	1/4	87,857_	1/4	72,683	1/4	57,511	1/4	42,339	1/4	27,165	1/4	11,991
/2	102,714	1/2	87,541	1/2	72,367	1/2	57,195	1/2	42,023	1/2	26,849	1/2	11,675
1/4	102,398	3/4	87,225	3/4	72,051	3/4	56,879	3/4	41,707	3/4	26,533	3/4	11,359
	102,082	3	86,908	3	71,735	3	56,563	3	41,390	3	26,217	3	11,043
14	101,766	1/4	86,592	1/4	71,419	1/4	56,247	1/4	41,074	1/4	25,901	1/4	10,727
/2	101,450	1/2	86,276	1/2	71,102	1/2	55,931	1/2	40,758	1/2	25,584	1/2	10,411
/4	101,134	3/4	85,960	3/4	70,786	3/4	55,615	3/4	40,442	3/4	25,268	3/4	10,095
_	100,818	4	85,644	4	70,470	4	55,299	4	40,126	4	24,952	4	9,779
14	100,502	1/4	85,328	1/4	70,154	1/4	54,983	1/4	39,810	1/4	24,636	1/4	9,463
12	100,185	1/2	85,012	1/2	69,838	1/2	54,667	1/2	39,494	1/2	24,320	1/2	9,147
/4	99,869	3/4	84,696	3/4	69,522	3/4	54,350	3/4	39,178	3/4	24,004	3/4	8,831
	99,553	5	84,379	5	69,206	5	54,034	5	38,861	5	23,688	5	8,515
14	99,237	1/4	84,063	1/4	68,890	1/4	53,718	1/4	38,545	1/4	23,372	1/4	8,199
2	98,921	1/2	83,747	1/2	68,573	1/2	53,402	1/2	38,229	1/2	23,055	1/2	7,884
4	98,605	3/4	83,431	3/4	68,257	3/4	53,086	3/4	37,913	3/4	22,739	3/4	7,568
	98,289	6	83,115	6	67,941	6	52,770	6	37,597	6	22,423	6	7,253
4	97,973	1/4	82,799	1/4	67,625	1/4	52,454	1/4	37,281	1/4	22,107	1/4	6,938
2	97,657	1/2	82,483	1/2	67,309	1/2	52,138	1/2	36,965	1/2	21,791	1/2	6,623
4	97,340	3/4	82,167	3/4	66,993	3/4	51,822	3/4	36,649	3/4	21,475	3/4	6,308
	97,024	7	81,851	7	66,677	7	51,506	7	36,332	7	21,159	7	5,993
4	96,708	1/4	81,534	1/4	66,361	1/4	51,190	1/4	36,016	1/4	20,843	1/4	5,679
2	96,392	1/2	81,218	1/2	66,045	1/2	50,874	1/2	35,700	1/2	20,526	1/2	5,365
4	96,076	3/4	80,902	3/4	65,729	3/4	50,558	3/4	35,384	3/4	20,210	3/4	5,051
	95,760	8	80,586	8	65,413	8	50,242	8	35,068	8	19,894	8	4,737
4	95,444	1/4	80,270	1/4	65,096	1/4	49,925	1/4	34,752	1/4	19,578	1/4	4,424
2	95,128	1/2	79,954	1/2	64,780	1/2	49,609	1/2	34,436	1/2	19,262	1/2	4,111
4	94,811	3/4	79,638	3/4	64,464	3/4	49,293	3/4	34,120	3/4	18,946	3/4	3,799
	94,495	9	79,322	9	64,148	9	48,977	9	33,804	9	18,630	9	3,487
4	94,179	1/4	79,005	1/4	63,832	1/4	48,661	1/4	33,487	1/4	18,314	1/4	3,175
2	93,863	1/2	78,689	1/2	63,516	1/2	48,345	1/2	33,171	1/2	17,998	1/2	2,864
1	93,547	3/4	78,373	3/4	63,200	3/4	48,029	3/4	32,855	3/4	17,681	3/4	2,555
1	93,231	10	78,057	10	62,884	10	47,713	10	32,539	10	17,365	10	2,254
1	92,915	1/4	77,741	1/4	62,568	1/4	47,397	1/4	32,223	1/4	17,049	1/4	1,968
2	92,599	1/2	77,425	1/2	62,252	1/2	47,080	1/2	31,907	1/2	16,733	1/2	1,701
4	92,282	3/4	77,109	3/4	61,936	3/4	46,764	3/4	31,591	3/4	16,417	3/4	1,454
+	91,966	111	76,793	11	61,620	11	46,448	111	31,275	111	16,101	111	1,227
4	91,650	1/4	76,476	1/4	61,304	1/4	46,132	1/4	30,958	1/4	15,785	1/4	1,019
2	91,334	1/2	76,160	1/2	60,988	1/2	45,816	1/2	30,642	1/2	15,469	3/8	920
1	91,018	3/4	75,844	3/4	60,672	3/4	45,500	3/4	30,326	3/4	15,152	1	

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

PAGE 8

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COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05



() Endress

BAKGE HFL-400 HULL #04-2206

3 PORT
ULLAGE TABLE
MANUAL GAUGING

GALLONS

MANUAL, GAUGE HEIGHT 16'-11 1/4"

The state of the s	NOAL GAUGE		7 - 1 1 1/4	-													
IN O	O FT. IN	1 FT. IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
1/4		0	***************************************	0	194,318	0	183,228	0	172,138	0	161,048	0	149,955	0	135,572	0	120,515
1/2	1/4	1/4		1/4	194,087	1/4	182,997	1/4	171,907	1/4	160,817	1/4	149,716	1/4	135,258	1/4	, 120,202
3/4	3/4	1/2		1/2	193,856	1/2	182,766	1/2	171,676	1/2	160,586	1/2	149,472	1/2	134,945	1/2	119,888
1	1	3/4	····	3/4	193,625	3/4	182,535	3/4	171,445	3/4	160,355	3/4	149,224	3/4	134,631	3/4	119,574
1/4	1/4	1		1	193,394	1	182,304	1	171,214	1	160,124	1	148,973	1	134,317	1	119,261
1/2	1/4	1/4		1/4	193,163	1/4	182,073	1/4	170,983	1/4	159,893	1/4	148,718	1/4	134,004	1/4	118,947
3/4	3/4	1/2	200 405	1/2	192,932	1/2	181,842	1/2	170,752	1/2	159,662	1/2	148,457	1/2	133,690	1/2	118,633
2	2	3/4	203,135	3/4	192,701	3/4	181,611	3/4	170,521	3/4	159,431	3/4	148,192	3/4	133,376	3/4	118,319
1/4	1/4	1/4	203,026	2	192,470	2	181,380	2	170,290	2	159,200	2	147,922	2	133,063	2	118,004
1/2	1/2	1/4	202,904	1/4	192,239	1/4	181,149	1/4	170,059	1/4	158,969	1/4	147,647	1/4	132,749	1/4	117,689
3/4	3/4		202,769	1/2	192,008	1/2	180,918	1/2	169,828	1/2	158,738	1/2	147,368	1/2	132,435	1/2	117,374
3	3	3/4	202,620	3/4	191,777	3/4	180,687	3/4	169,597	3/4	158,507	3/4	147,083	3/4	132,122	3/4	117,060
1/4	1/4		202,459	3	191,546	3	180,456	3	169,366	3	158,276	3	146,794	3	131,808	3	116,745
1/2	1/2	1/4	202,284	1/4	191,315	1/4	180,225	1/4	169,135	1/4	158,045	1/4	146,500	1/4	131,494	1/4	116,430
3/4	3/4	1/2	202,096	1/2	191,084	1/2	179,994	1/2	168,904	1/2	157,813	1/2	146,201	1/2	131,181	1/2	116,115
4		3/4	201,895	3/4	190,853	3/4	179,763	3/4	168,672	3/4	157,582	3/4	145,898	3/4	130,867	3/4	115,800
1/4	1/4	4	201,680	4	190,621	4	179,531	4	168,441	4	157,351	4	145,590	4	130,553	4	115,485
1/2	1/2	1/4	201,457	1/4	190,390	1/4	179,300	1/4	168,210	1/4	157,120	1/4	145,279	1/4	130,239	1/4	115,170
3/4	3/4	1/2	201,229	1/2	190,159	1/2	179,069	1/2	167,979	1/2	156,889	1/2	144,969	1/2	129,926	1/2	114,856
5		3/4	201,001	3/4	189,928	3/4	178,838	3/4	167,748	3/4	156,658	3/4	144,658	3/4	129,612	3/4	114,541
1/4	5 1/4	5	200,773	5	189,697	5	178,607	5	167,517	5	156,427	5	144,346	5	129,298	5	114,226
1/2	1/2	1/4	200,544	1/4	189,466	1/4	178,376	1/4	167,286	1/4	156,196	1/4	144,035	1/4	128,985	1/4	113,911
3/4	3/4	1/2	200,315	1/2	189,235	1/2	178,145	1/2	167,055	1/2	155,965	1/2	143,724	1/2	128,671	1/2	113,596
6	6	3/4	200,086	3/4	189,004	3/4	177,914	3/4	166,824	3/4	155,734	3/4	143,411	3/4	128,357	3/4	113,281
1/4	1/4	1/4	199,856	6	188,773	6	177,683	6	166,593	6	155,503	6	143,098	6	128,044	6	112,967
1/2	1/2	1/4	199,626	1/4	188,542	1/4	177,452	1/4	166,362	1/4	155,272	1/4	142,785	1/4	127,730	1/4	112,652
3/4	3/4	3/4	199,396 199,166	3/4	188,311		177,221	1/2	166,131	1/2	155,041	1/2	142,472	1/2	127,416	1/2	112,337
7	7	7	198,936	7	188,080	3/4	176,990	3/4	165,900	3/4	154,810	3/4	142,158	3/4	127,103	3/4	112,022
1/4	1/4	1/4	198,706	1/4	187,849	7	176,759	7	165,669	7	154,579	7	141,845	7	126,789	7	111,707
1/2	1/2	1/2	198,475	1/2	187,618 187,387	1/4	176,528	1/4	165,438	1/4	154,348	1/4	141,531	1/4	126,475	1/4	111,392
3/4	3/4	3/4	198,245	3/4	187,156	3/4	176,297	3/4	165,207	1/2	154,117	1/2	141,218	1/2	126,162	1/2	111,078
8	8	8	198,245	8	186,925	8	176,066		164,976	3/4	153,886	3/4	140,904	3/4	125,848	3/4	110,763
1/4	1/4	1/4	197,783	1/4	186,694	1/4	175,835	1/4	164,745	8	153,655	8	140,591	8	125,534	8	110,448
1/2	1/2	1/2	197,783	1/2	186,463	1/2	175,604 175,373	1/2	164,514	1/4	153,424	1/4	140,277	1/4	125,221	1/4	110,133
3/4	3/4	3/4	197,352	3/4	186,463	3/4		3/4	164,283	1/2	153,193	1/2	139,964	1/2	124,907	1/2	109,818
9	9	9	197,091	9			175,142		164,052	3/4	152,962	3/4	139,650	3/4	124,593	3/4	109,503
1/4	1/4	1/4	196,860	1/4	186,001 185,770	9 1/4	174,911	9	163,821	9	152,731	9	139,336	9	124,279	9	109,189
1/2	1/2	1/2	196,880	1/2	185,770	1/4	174,680	1/4	163,590	1/4	152,500	1/4	139,023	1/4	123,966	1/4	108,874
3/4	3/4	3/4	196,629	3/4	185,539	3/4	174,449 174,217	3/4	163,359	1/2	152,268	1/2	138,709	1/2	123,652	1/2	108,559
10	10	10	196,398	10					163,127	3/4	152,037	3/4	138,395	3/4	123,338	3/4	108,244
1/4	1/4	1/4	195,167	1/4	185,076	1/4	173,986	10	162,896	10	151,806	10	138,082	10	123,025	10	107,929
1/2	1/4	1/4	195,935	1/4	184,845	1/4	173,755	1/4	162,665	1/4	151,575	1/4	137,768	1/4	122,711	1/4	107,614
3/4	3/4	3/4	195,704	3/4	184,614 184,383	3/4	173,524	3/4	162,434	1/2	151,344	1/2	137,454	1/2	122,397	1/2	107,300
11	11	11	195,473	11			173,293		162,203	3/4	151,113	3/4	137,141	3/4	122,084	3/4	106,985
1/4	1/4	1/4	195,242	1/4	184,152	11	173,062	11	161,972	11	150,882	11	136,827	11	121,770	11	106,670
1/2	1/2	1/4	194,780	1/2	183,921	1/4	172,831	1/4	161,741	1/4	150,651	1/4	136,513	1/4	121,456	1/4	106,355
3/4	3/4	3/4	194,780	3/4	183,690 183,459	3/4	172,600 172,369	3/4	161,510	3/4	150,420 150,189	3/4	136,199	3/4	121,143	3/4	106,040
U/ TI	13/41	13/4	134,343	13/4	103,459	3/4	1/2,309	3/4	161,279	3/4	150,189	3/4	135,886	3/4	120,829	13/4	105,725

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.
TABLE REVISED TO ACCOMMODATE CORRECTED CALCULATION.
THIS TABLE SUPERSEDES ALL TABLES ISSUED PRIOR TO 04/05

CHART IS CERTIFIED FOR THIS TANK ONLY.
RE-COMPUTED BY: JF 04/25/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

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BARGE HFL-400 HULL #04-2206

3 PORT
ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL, GAUGE HEIGHT 16'-11 1/4"

IVI	HAOAL, G	AUG	E HEIGH	1 16	5'-11 1/4'	•										
IN	10 FT.	IN	11 FT.	IN	12 FT.	iN	13 FT.	IN	14 FT.	IN	15 FT.	iN	16 FT.			
0	105,411	ō	90,298	0	75,186	0	60,074	0	44,962	0	29,849	0	14,736			
1/4	105,096	1/4	89,984	1/4	74,871	1/4	59,759	1/4	44,647	1/4	29,534	1/4	14,736			
1/2	104,781	1/2	89,669	1/2	74,556	1/2	59,444	1/2	44,332	1/2	29,219	1/2	14,106		•	
3/4	104,466	3/4	89,354	3/4	74,241	3/4	59,129	3/4	44,018	3/4	28,905	3/4	13,792			
1	104,151	1	89,039	1	73,926	1	58,815	1	43,703	11	28,590	1	13,477			
1/4	103,836	1/4	88,724	1/4	73,611	1/4	58,500	1/4	43,388	1/4	28,275	1/4	13,162			
1/2	103,522	1/2	88,409	1/2	73,296	1/2	58,185	1/2	43,073	1/2	27,960	1/2	12,847			
3/4	103,207	3/4	88,095	3/4	72,982	3/4	57,870	3/4	42,758	3/4	27,645	3/4	12,532			
2	102,892	2	87,780	2	72,667	2	57,555	2	42,443	2	27,330	2	12,217			
1/4	102,577	1/4	87,465	1/4	72,352	1/4	57,241	1/4	42,128	1/4	27,015	1/4	11,902			
1/2	102,262	1/2	87,150	1/2	72,037	1/2	56,926	1/2	41,814	1/2	26,701	1/2	11,588			
3/4	101,947	3/4	86,835	3/4	71,722	3/4	56,611	3/4	41,499	3/4	26,386	3/4	11,273			
3	101,633	3	86,520	3	71,407	3	56,296	3	41,184	3	26,071	3	10,958			
1/4	101,318	1/4	86,206	1/4	71,092	1/4	55,981	1/4	40,869	1/4	25,756	1/4	10,643			
1/2	101,003	1/2	85,891	1/2	70,778	1/2	55,667	1/2	40,554	1/2	25,441	1/2	10,328			
3/4	100,688	3/4	85,576	3/4	70,463	3/4	55,352	3/4	40,239	3/4	25,126	3/4	10,013			
4	100,373	4	85,261	4	70,148	4	55,037	4	39,924	4	24,811	4	9,699			
1/4	100,058	1/4	84,946	1/4	69,833	1/4	54,722	1/4	39,610	1/4	24,497	1/4	9,384			
1/2	99,744	1/2	84,631	1/2	69,518	1/2	54,407	1/2	39,295	1/2	24,182	1/2	9,069			
3/4	99,429	3/4	84,317	3/4	69,203	3/4	54,093	3/4	38,980	3/4	23,867	3/4	8,755			
	99,114	5	84,002	5	68,888	5	53,778	5	38,665	5	23,552	5	8,440			
1/4	98,799	1/4	83,687	1/4	68,574	1/4	53,463	1/4	38,350	1/4	23,237	1/4	8,126			
3/4	98,484 98,169	3/4	83,372 83,057	3/4	68,259	1/2	53,148	1/2	38,035	1/2	22,922	1/2	7,811			
6	97,855	6	82,742	6	67,944	3/4 6	52,833	3/4 6	37,721	6	22,607	3/4	7,497			j
1/4	97,540	1/4	82,427	1/4	67,629 67,314	1/4	52,519 52,204	1/4	37,406 37,091	1/4	22,293	1/4	7,183 6,869			
1/2	97,225	1/2	82,113	1/2	66,999	1/2	51,889	1/2	36,776	1/2	21,978 21,663	1/2	6,555			
3/4	96,910	3/4	81,798	3/4	66,685	3/4	51,574	3/4	36,461	3/4	21,348	3/4	6,241			
7	96,595	7	81,483	7	66,370	7	51,259	7	36,146	7	21,033	7	5,928			l
1/4	96,280	1/4	81,168	1/4	66,055	1/4	50,945	1/4	35,831	1/4	20,718	1/4	5,614			1
1/2	95,966	1/2	80,853	1/2	65,740	1/2	50,630	1/2	35,517	1/2	20,404	1/2	5,301			1
3/4	95,651	3/4	80,538	3/4	65,425	3/4	50,315	3/4	35,202	3/4	20,089	3/4	4,988			l
8	95,336	8	80,223	8	65,111	8	50,000	8	34,887	8	19,774	8	4,676			1
1/4	95,021	1/4	79,909	1/4	64,796	1/4	49,685	1/4	34,572	1/4	19,459	1/4	4,364			
1/2	94,706	1/2	79,594	1/2	64,481	1/2	49,370	1/2	34,257	1/2	19,144	1/2	4,052			1
3/4	94,391	3/4	79,279	3/4	64,166	3/4	49,055	3/4	33,942	3/4	18,829	3/4	3,740			- 1
9	94,076	9	78,964	9	63,851	9	48,741	9	33,627	9	18,514	9	3,429			1
1/4	93,762	1/4	78,649	1/4	63,537	1/4	48,426	1/4	33,313	1/4	18,200	1/4	3,118			1
1/2	93,447	1/2	78,334	1/2	63,222	1/2	48,111	1/2	32,998	1/2	17,885	1/2	2,809			1
3/4	93,132	3/4	78,019	3/4	62,907	3/4	47,796	3/4	32,683	3/4	17,570	3/4	2,501			}
10	92,817	10	77,704	10	62,592	10	47,481	10	32,368	10	17,255	10	2,203			1
1/4	92,502	1/4	77,390	1/4	62,277	1/4	47,166	1/4	32,053	1/4	16,940	1/4	1,919			i
1/2	92,187	1/2	77,075	1/2	61,963	1/2	46,851	1/2	31,738	1/2	16,625	1/2	1,651			ļ
3/4	91,873	3/4	76,760	3/4	61,648	3/4	46,537	3/4	31,423	3/4	16,310	3/4	1,401			1
11	91,558	11	76,445	11	61,333	11	46,222	11	31,109	11	15,996	111	1,172			İ
1/4	91,243	1/4	76,130	1/4	61,018	1/4	45,907	1/4	30,794	1/4	15,681	1/4	964			l
1/2	90,928	1/2	75,815	1/2	60,703	1/2	45,592	1/2	30,479	1/2	15,366					1
3/4	90,613	3/4	75,500	3/4	60,389	3/4	45,277	3/4	30,164	3/4	15,051			 		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7
TABLE REVISED TO ACCOMMODATE CORRECTED CALCULATION.
THIS TABLE SUPERSEDES ALL TABLES ISSUED PRIOR TO 04/05

CHART IS CERTIFIED FOR THIS TANK ONLY.

RE-COMPUTED BY: JF 04/25/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

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U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

3 STARBOARD

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

					110/0														
IN	O FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN		IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	194,170	0	183,098	0	172,027	0	160,955	0	149,880	0	135,505	0	120,459
1/4		1/4		1/4		1/4	193,939	1/4		1/4	171,796	1/4	160,724	1/4	149,641	1/4	135,192	1/4	120,146
1/2		1/2		1/2		1/2	193,709	1/2		1/2	171,565	1/2	160,494	1/2	149,398	1/2	134,878	1/2	119,833
3/4		3/4		3/4		3/4	193,478	3/4	182,406	3/4	171,335	3/4	160,263	3/4	149,151	3/4	134,565	3/4	119,519
1		11		1		1	193,247	1	182,176	1	171,104	1	160,032	1	148,900	1	134,251	1	119,206
1/4		1/4		1/4		1/4	193,017	1/4		1/4	170,873	1/4	159,802	1/4	148,645	1/4	133,938	1/4	118,892
1/2		1/2		1/2		1/2	192,786	1/2		1/2	170,643	1/2	159,571	1/2	148,385	1/2	133,624	1/2	118,579
3/4		3/4		7/8	202,913	3/4	192,555	3/4		3/4	170,412	3/4	159,340	3/4	148,120	3/4	133,311	3/4	118,265
2		2		2	202,856	2	192,325	2	181,253	2	170,181	2	159,110	2	147,851	2	132,997	2	117,951
1/4		1/4		1/4	202,735	1/4	192,094	1/4		1/4	169,951	1/4	158,879	1/4	147,576	1/4	132,684	1/4	117,637
1/2		1/2		1/2	202,600	1/2	191,863	1/2		1/2	169,720	1/2	158,648	1/2	147,296	1/2	132,371	1/2	117,322
3/4		3/4		3/4	202,453	3/4	191,633	3/4	180,561	3/4	169,489	3/4	158,418	3/4	147,011	3/4	132,057	3/4	117,007
3		3		3	202,292	3	191,402	3	180,330	3	169,259	3	158,187	3	146,722	3	131,744	3	116,693
1/4		1/4		1/4	202,119	1/4	191,171	1/4		1/4	169,028	1/4	157,956	1/4	146,427	1/4	131,430	1/4	116,378
1/2		1/2		1/2	201,932	1/2	190,941	1/2		1/2	168,797	1/2	157,726	1/2	146,128	1/2	131,117	1/2	116,063
3/4		3/4		3/4	201,732	3/4	190,710	3/4		3/4	168,567	3/4	157,495	3/4	145,823	3/4	130,803	3/4	115,749
4		4		4	201,519	4	190,479	4	179,408	4	168,336	4	157,264	4	145,515	4	130,490	4	115,434
1/4		1/4		1/4	201,296	1/4	190,249	1/4		1/4	168,105	1/4	157,034	1/4	145,205	1/4	130,176	1/4	115,120
1/2		1/2		1/2	201,070	1/2	190,018	1/2		1/2	167,875	1/2	156,803	1/2	144,894	1/2	129,863	1/2	114,805
3/4		3/4		3/4	200,842	3/4	189,787	3/4	178,716	3/4	167,644	3/4	156,572	3/4	144,583	3/4	129,549	3/4	114,490
5		5		5	200,614	5	189,557	5	178,485	5	167,413	5	156,342	5	144,272	5	129,236	5	114,176
1/4		1/4		1/4	200,386	1/4	189,326	1/4	178,254	1/4	167,183	1/4	156,111	1/4	143,961	1/4	128,923	1/4	113,861
1/2		1/2		1/2	200,157	1/2	189,095	1/2	178,024	1/2	166,952	1/2	155,880	1/2	143,650	1/2	128,609	1/2	113,547
3/4		3/4		3/4	199,928	3/4	188,865	3/4	177,793	3/4	166,721	3/4	155,650	3/4	143,338	3/4	128,296	3/4	113,232
6		6		6	199,699	6	188,634	6	177,562	6	166,491	6	155,419	6	143,026	6	127,982	6	112,917
1/4		1/4		1/4	199,470	1/4	188,403	1/4	177,332	1/4	166,260	1/4	155,188	1/4	142,713	1/4	127,669	1/4	112,603
1/2		1/2		1/2	199,240	1/2	188,173	1/2	177,101	1/2	166,029	1/2	154,958	1/2	142,400	1/2	127,355	1/2	112,288
3/4		3/4		3/4	199,011	3/4	187,942	3/4	176,870	3/4	165,799	3/4	154,727	3/4	142,087	3/4	127,042	3/4	111,974
7		7		7_	198,781	7	187,711	7	176,640	7	165,568	7	154,496	7	141,773	7	126,728	7	111,659
1/4		1/4		1/4	198,551	1/4	187,481	1/4	176,409	1/4	165,337	1/4	154,266	1/4	141,460	1/4	126,415	1/4	111,344
1/2		1/2		1/2	198,321	1/2	187,250	1/2	176,178	1/2	165,107	1/2	154,035	1/2	141,147	1/2	126,102	1/2	111,030
3/4	·~~	3/4		3/4	198,090	3/4	187,020	3/4	175,948	3/4	164,876	3/4	153,804	3/4	140,834	3/4	125,788	3/4	110,715
8		8		В	197,860	8	186,789	8	175,717	8	164,645	8	153,574	8	140,520	8	125,475	1/4	110,400 110,086
1/4		1/4		1/4	197,630	1/4	186,558	1/4	175,487	1/4	164,415	1/4	153,343	1/4	140,207	1/4	125,161 124,848	1/2	109,771
1/2		1/2		1/2	197,399	1/2	186,328	1/2	175,256	1/2	164,184	1/2	153,112	1/2	139,893	3/4	124,848	3/4	109,771
3/4		3/4		3/4	197,169	3/4	186,097	3/4	175,025	9	163,954	3/4	152,882	9	139,580	9	124,334	9	109,142
9		9		9	196,938	9	185,866	9	174,795		163,723	1/4	152,651	1/4	139,267	1/4	123,907	1/4	108,827
1/4		1/4		1/4	196,708	1/4	185,636	1/4	174,564	1/4	163,492	1/2	152,420 152,190	1/2	138,953	1/2	123,594	1/2	108,513
1/2		1/2		1/2	196,477	1/2	185,405	1/2	174,333		163,262	3/4			138,640	3/4	123,354	3/4	108,198
3/4		3/4		3/4	196,246	3/4	185,174	3/4	174,103	3/4	163,031	10	151,959 151,729	3/4	138,326	10	123,280	10	107,884
10		10		10	196,015	10	184,944	10	173,872	10	162,800	1/4	151,729	1/4	138,013 137,699	1/4	122,654	1/4	107,569
1/4		1/4		1/4	195,785	1/4	184,713	1/4	173,641	1/4	162,570	1/2	151,498	1/2	137,386	1/2	122,340	1/2	107,353
1/2	····	1/2		1/2	195,554	1/2	184,482	1/2	173,411	3/4	162,339	3/4	151,267	3/4	137,386	3/4	122,027	3/4	106,940
3/4		3/4		3/4	195,323	3/4	184,252	3/4	173,180	11	162,108	11		11	136,759	11	121,713	111	106,625
11		11		11	195,093	11	184,021	11	172,949		161,878	1/4	150,806	1/4	136,759	1/4	121,713	1/4	106,311
1/4		1/4		1/4	194,862	1/4	183,790	1/4	172,719	1/4	161,647		150,575		136,445	1/2	121,400	1/2	105,996
1/2		1/2		1/2	194,631	1/2	183,560	1/2	172,488	1/2	161,416	1/2	150,345	1/2		3/4	120,773	3/4	105,681
3/4		3/4	- 1;	3/4	194,401	3/4	183,329	3/4	172,257	3/4	161,186	3/4	150,113	3/4	135,818	3/4	140,773	13/41	100,001

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
\$TRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

() Endrew

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

3 STARBOARD

ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

77.7	1110712	7100	- 11LIOII		7-11-0/0								
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	iN	15 FT.	IN	16 FT.
0	105,367	0	90,265	0	75,175	0	60,078	0	45,002	0	29,940	0	14,839
1/4	105,052	1/4	89,951	1/4	74,861	1/4	59,763	1/4	44,689	1/4	29,626	1/4	14,524
1/2	104,738	1/2	89,636	1/2	74,547	1/2	59,449	1/2	44,375	1/2	29,311	1/2	14,209
3/4	104,423	3/4	89,322	3/4	74,232	3/4	59,134	3/4	44,062	3/4	28,996	3/4	13,895
1	104,108	1	89,007	1	73,918	1	58,820	1	43,749	1	28,682	1	13,580
1/4	103,794	1/4	88,692	1/4	73,604	1/4	58,505	1/4	43,436	1/4	28,367	1/4	13,265
1/2	103,479	1/2	88,378	1/2	73,289	1/2	58,191	1/2	43,122	1/2	28,053	1/2	12,951
3/4	103,164	3/4	88,063	3/4	72,975	3/4	57,876	3/4	42,809	3/4	27,738	3/4	12,636
2	102,850	2	87,749	2	72,660	2	57,562	2	42,496	2	27,423	2	12,322
1/4	102,535	1/4	87,435	1/4	72,346	1/4	57,247	1/4	42,183	1/4	27,109	1/4	12,007
1/2	102,221	1/2	87,120	1/2	72,031	1/2	56,933	1/2	41,869	1/2	26,794	1/2	11,692
3/4	101,906	3/4	86,806	3/4	71,717	3/4	56,618	3/4	41,556	3/4	26,480	3/4	11,378
3	101,591	3	86,492	3	71,402	3	56,304	3	41,243	3	26,165	3	11,063
1/4	101,277	1/4	86,177	1/4	71,087	1/4	55,989	1/4	40,930	1/4	25,850	1/4	10,749
1/2	100,962	1/2	85,863	1/2	70,773	1/2	55,675	1/2	40,616	1/2	25,536	1/2	10,434
3/4	100,648	3/4	85,549	3/4	70,458	3/4	55,360	3/4	40,303	3/4	25,221	3/4	10,119
4	100,333	4	85,234	4	70,143	4	55,046	4	39,990	4	24,906	4	9,805
1/4	100,018	1/4	84,920	1/4	69,829	1/4	54,731	1/4	39,677	1/4	24,592	1/4	9,490
1/2	99,704	1/2	84,606	1/2	69,514	1/2	54,417	1/2	39,363	1/2	24,277	1/2	9,176
3/4	99,389	3/4	84,291	3/4	69,199	3/4	54,102	3/4	39,050	3/4	23,963	3/4	8,861
5	99,075	5	83,977	5	68,885	5	53,788	5	38,737	5	23,648	5	8,547
1/4	98,760	1/4	83,663	1/4	68,570	1/4	53,474	1/4	38,424	1/4	23,333	1/4	8,233
1/2	98,445	1/2	83,348	1/2	68,255	1/2	53,159	1/2	38,110	1/2	23,019	1/2	7,918
3/4	98,131	3/4	83,034	3/4	67,941	3/4	52,845	3/4	37,797	3/4	22,704	3/4	7,604
6	97,816	6	82,720	6	67,626	6	52,530	6	37,484	6	22,389	6	7,290
1/4	97,501	1/4	82,405	1/4	67,312	1/4	52,216	1/4	37,171	1/4	22,075	1/4	6,976
3/4	97,187	3/4	82,091 81,777	3/4	66,997	3/4	51,902	3/4	36,857	3/4	21,760	1/2	6,663
7	96,872 96,558	7	81,462	7	66,683 66,368	7	51,587 51,273	7	36,544 36,231	7	21,446 21,131	3/4	6,349
1/4	96,243	1/4	81,148	1/4	66,054	1/4	50,958	1/4	35,231	1/4	20,816	7	6,036 5,723
1/2	95,928	1/2	80,834	1/2	65,739	1/2	50,644	1/2	35,603	1/2	20,502	1/2	5,410
3/4	95,614	3/4	80,519	3/4	65,425	3/4	50,329	3/4	35,289	3/4	20,302	3/4	5,097
8	95,299	8	80,205	8	65,110	8	50,015	8	34,974	8	19,872	8	4,785
1/4	94,985	1/4	79,891	1/4	64,796	1/4	49,702	1/4	34,660	1/4	19,558	1/4	4,473
1/2	94,670	1/2	79,576	1/2	64,481	1/2	49,388	1/2	34,345	1/2	19,243	1/2	4,161
3/4	94,355	3/4	79,262	3/4	64,167	3/4	49,074	3/4	34,030	3/4	18,929	3/4	3,850
9	94,041	9	78,948	9	63,852	9	48,761	9	33,716	9	18,614	9	3,539
1/4	93,726	1/4	78,633	1/4	63,538	1/4	48,448	1/4	33,401	1/4	18,299	1/4	3,228
1/2	93,412	1/2	78,319	1/2	63,223	1/2	48,134	1/2	33,087	1/2	17,985	1/2	2,919
3/4	93,097	3/4	78,004	3/4	62,909	3/4	47,821	3/4	32,772	3/4	17,670	3/4	2,610
10	92.782	10	77,690	10	62,594	10	47,508	10	32,457	10	17,356	10	2,308
1/4	92,468	1/4	77,376	1/4	62,279	1/4	47,195	1/4	32,143	1/4	17,041	1/4	2,019
1/2	92,153	1/2	77,061	1/2	61,965	1/2	46,881	1/2	31,828	1/2	16,726	1/2	1,749
3/4	91,838	3/4	76,747	3/4	61,650	3/4	46,568	3/4	31,513	3/4	16,412	3/4	1,499
11	91,524	11	76,433	11	61,336	11	46,255	11	31,199	111	16,097	111	1,269
1/4	91,324	1/4	76,118	1/4	61,021	1/4	45,942	1/4	30,884	1/4	15,782	1/4	1,059
1/2	90,895	1/2	75,804	1/2	60,707	1/2	45,628	1/2	30,570	1/2	15,468	3/8	958
3/4	90,580	3/4	75,490	3/4	60,392	3/4	45,315	3/4	30,255	3/4	15,153	1	
3/4	30,300	13/4	13,430	3/41	00,002	13,7	70,010	19/31				,	

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.

COMPUTED BY: JF 03/16/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP



BARGE HFL-400 HULL #04-2206

1 PORT INNAGE TABLE

INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11"

1/2	IAI	MUAL C	HUU	E HEIGH	1 10) -														
	IN	O FT.	IN!	1 FT.	IN	2 FT.	IN I	3 FT.	IN I	4 FT.	IN	5 FT.	IN	6 FT.	INI	7 FT	IN	8 FT.	INI	9 FT
1/2 1	0	586	0	11,331	0	24,142	0	37.181	0	50.219	0									
126 126 127 11,836 172 11,836 172 24,885 172 37,725 172 50,782 172 53,800 172 76,840 172 172,115,836 172 11,15,136 172 11,15,136 173 173 183,136 173 183,136 173 183,136 174 183	1/4	719	1/4	11,583	1/4	24,414	1/4							The second secon						115,687
1,028 374 12,099 374 12,099 374 37,996 374 37,996 374 51,093 374 51,093 374 64,072 374 77,182 374 103,191 374 103,191 374 116,191 117 118,191 114 12,999 114 1	1/2	866	1/2	11,836	1/2	24,685	1/2	37,725	1/2		1/2									
1,204 11 12,343 1 25,279 1 38,268 1 51,377 11 61,395 11 11 77,392 1 90,432 1 102,462 1 116,191	3/4	1,028	3/4	12,089	3/4	24,957			3/4											
1.355	1	1,204	1	12,343	1	25,229	1	38,268	1		1	The second section is a second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the section i	-						-	
1.72	1/4	1,395	1/4	12,599	1/4	25,500	1/4	38,540	1/4		1/4	The state of the s	1/4		-					116,774
1,000	1/2	1,598	1/2	12,855	1/2	25,772	1/2	38,811						-						117,046
2, 2020 2, 13,370 12 26,315 2 39,394 2 52,392 2 86,430 2 78,470 2 91,810 2 196,548 2 11/4 26,525 1/4 39,626 1/4 52,655 1/4	3/4	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			3/4	26,044	3/4	39,083	3/4	52,120	3/4	65,159	3/4							117,317
1/4	***************************************					26,315		39,354	2	52,392	2	65,430	2	78,470	2	A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN C	2		2	117,589
1.00						26,587		39,626	1/4	52,663	1/4	65,702	1/4	78,742	1/4		1/4	104,821	1/4	117,861
3												65,974	1/2	79,013		92,053	1/2	105,093	1/2	118,132
14	-							40,169		53,206		66,245	3/4	79,285	3/4	92,325	3/4	105,364	3/4	118,404
1/2						27,402	+	40,441	3	53,478	3	66,517	3	79,557	3	92,596	3	105,636	3	118,676
3.539 3/4 15,203 3/4 28,217 3/4 41,256 3/4 54,293 3/4 67,332 3/4 80,372 3/4 93,411 3/4 106,451 3/4 119,491	-								_+			66,789	1/4	79,828	1/4	92,868	1/4	105,908	1/4	118,947
4 3.761 4 15.469 4 28.488 4 41.528 4 54.564 4 67.604 4 80.643 4 93.683 4 106.723 4 119.762 11/4 3.983 11/4 15.735 11/4 28.760 11/4 41.799 11/4 54.835 11/4 67.875 11/4 80.915 11/4 93.955 11/4 106.994 11/4 120.034 11/2 4.206 11/2 16.003 11/2 29.032 11/2 42.071 11/2 55.108 11/2 68.147 11/2 81.187 11/2 94.226 11/2 107.266 11/2 120.306 13/4 4.431 31/4 16.271 31/4 29.303 31/4 42.342 31/4 55.379 31/4 68.418 31/4 81.488 31/4 94.498 31/4 107.538 31/4 120.537 11/4 4.882 11/4 16.810 11/4 29.847 11/4 42.886 11/4 55.922 11/4 68.960 5 81.730 5 94.770 5 107.809						· · · · · · · · · · · · · · · · · · ·						67,060		80,100	1/2	93,140	1/2	106,179		119,219
1/4 3,983 1/4 15,735 1/4 28,760 1/4 41,799 1/4 58,336 1/4 67,975 1/4 80,915 1/4 93,955 1/4 106,994 1/4 120,033 3/4 4,431 3/4 16,271 3/4 29,303 3/4 42,342 3/4 55,379 3/4 81,459 3/4 94,299 3/4 10,573 5 4,656 5 16,540 5 29,575 5 42,614 5 55,651 5 68,690 5 94,770 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 107,609 5 102,609 102,609 102,609 102,609 102,609<	3/4	~~~~~~~~~~~~												80,372	3/4			106,451		119,491
1/2	4	3,761					4	41,528	4	54,564		67,604	4	80,643	4	93,683		106,723	4	119,762
3/4	1/4	3,983						41,799	1/4	54,836		67,875		80,915	1/4	93,955	1/4	106,994	1/4	120,034
5 4,656 5 16,540 5 29,575 5 42,614 5 55,651 5 68,690 6 81,730 5 94,770 8 107,809 5 120,849 1/4 4,882 1/4 16,810 1/4 29,847 1/4 42,886 1/4 55,922 1/4 82,001 1/4 95,313 1/2 108,553 1/2 11,4 121,132 3/4 5,337 3/4 17,351 3/4 30,390 3/4 43,429 3/4 56,465 3/4 69,505 3/4 82,545 3/4 95,586 6 108,624 3/4 121,938 1/4 5,796 1/4 17,894 1/4 30,933 1/4 43,927 1/4 57,009 1/4 70,048 1/4 96,128 1/4 109,167 1/4 122,479 3/4 6,259 3/4 18,166 1/2 81,269 1/4 10,886 6 108,898 1/2	1/2	4,206		16,003		29,032	1/2	42,071	1/2	55,108		68,147	1/2	81,187	1/2	94,226	1/2	107,266	1/2	120,306
1/4 4,882 1/4 16,810 1/4 29,847 1/4 42,886 1/4 55,922 1/4 68,962 1/4 82,001 1/4 95,041 1/4 108,081 1/4 121,121 1/2 5,109 1/2 17,081 1/2 30,118 1/2 56,184 1/2 69,233 1/2 82,273 1/2 19,5313 1/2 108,353 1/2 11,132 121,382 1/2 69,505 3/4 82,545 3/4 95,585 3/4 121,686 6 5,566 6 17,623 6 30,662 6 43,700 6 56,737 6 69,777 6 82,816 6 95,856 6 108,896 6 121,936 1/4 17,893 1/4 43,972 1/4 77,009 1/4 70,048 1/4 83,088 1/4 96,128 1/4 109,167 1/4 122,479 3/4 82,545 3/4 96,585 6 108,839 1/2	3/4	4,431	3/4	16,271	3/4	29,303	3/4	42,342	3/4	55,379	3/4	68,418	3/4	81,458	3/4	94,498	3/4	107,538	3/4	120,577
1/2 5.109 1/2 17,081 1/2 30,118 1/2 43,157 1/2 56,194 1/2 69,233 1/2 95,313 1/2 108,353 1/2 121,392 3/4 5,337 3/4 17,351 3/4 30,390 3/4 43,429 3/4 56,465 3/4 69,505 3/4 82,545 3/4 95,584 3/4 108,624 3/4 121,686 6 5,566 6 17,623 6 30,662 6 43,700 6 66,737 6 69,777 8 28,216 6 95,856 6 108,896 6 121,936 1/2 6,027 1/2 18,166 1/2 31,205 1/2 44,244 1/2 57,280 1/2 70,320 1/2 83,360 1/2 96,399 1/2 109,439 1/2 122,479 3/4 6,259 3/4 18,437 3/4 44,244 1/2 57,280 1/2 70,320 </td <td>5</td> <td>4,656</td> <td>5</td> <td>16,540</td> <td>5</td> <td>29,575</td> <td>5</td> <td>42,614</td> <td>5</td> <td>55,651</td> <td>5</td> <td>68,690</td> <td>5</td> <td>81,730</td> <td>5</td> <td>94,770</td> <td>5</td> <td>107,809</td> <td>5</td> <td>120,849</td>	5	4,656	5	16,540	5	29,575	5	42,614	5	55,651	5	68,690	5	81,730	5	94,770	5	107,809	5	120,849
3/4 5,337 3/4 17,351 3/4 30,390 3/4 43,429 3/4 56,465 3/4 69,505 3/4 82,545 3/4 95,584 3/4 108,624 3/4 121,684 6 5,566 6 17,623 6 30,652 6 43,700 6 56,737 6 69,777 6 82,816 6 95,856 6 108,896 6 121,936 1/4 17,894 1/4 30,933 1/4 43,972 1/4 57,009 1/4 70,048 1/4 33,088 1/4 96,128 1/4 109,167 1/4 122,207 1/2 6,027 1/2 18,166 1/2 31,205 1/2 44,244 1/2 57,280 1/2 70,320 1/2 83,360 1/2 96,399 1/2 109,439 1/2 122,479 1/4 6,725 1/4 18,981 1/4 32,020 1/4 45,058 1/4 58,095 1/4 71,135 1/4 84,175 1/4 97,214 1/4 110,254 1/4 123,234 1/2 6,960 1/2 19,522 1/2 32,292 1/2 45,330 1/2 58,367 1/2 71,407 1/2 84,446 1/2 110,526 1/2 133,837 8 7,431 8 19,796 8 32,835 8 45,873 8 58,910 8 71,950 8 44,982 9 33,971 9 46,680 9 59,937 9 46,680 9 59,937 9 46,680 1/2 20,339 1/2 33,378 1/2 46,416 1/2 59,454 1/2 72,222 1/4 85,261 1/4 111,341 1/4 124,380 1/4 7,068 1/4 20,339 1/2 33,378 1/2 46,416 1/2 59,454 1/2 7,2493 1/2 85,533 1/2 98,573 1/2 111,612 1/2	1/4	4,882		16,810	1/4	29,847	1/4	42,886	1/4	55,922	1/4	68,962	1/4	82,001	1/4	95,041	1/4	108,081	1/4	121,121
6 5,566 6 17,623 6 30,662 6 43,700 6 56,737 6 69,777 6 82,816 6 95,856 6 108,896 6 121,936 1/4 5,796 1/4 17,894 1/4 30,933 1/4 43,972 1/4 57,090 1/2 70,048 1/4 96,128 1/4 109,167 1/4 122,2479 3/4 6,027 1/2 18,166 1/2 31,205 1/2 44,244 1/2 57,280 1/2 70,320 1/2 83,600 1/2 96,399 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 109,439 1/2 122,479 1/2 <td>1/2</td> <td>5,109</td> <td>1/2</td> <td>17,081</td> <td>1/2</td> <td>30,118</td> <td>1/2</td> <td>43,157</td> <td>1/2</td> <td>56,194</td> <td></td> <td>69,233</td> <td>1/2</td> <td>82,273</td> <td>1/2</td> <td>95,313</td> <td></td> <td>108,353</td> <td>1/2</td> <td>121,392</td>	1/2	5,109	1/2	17,081	1/2	30,118	1/2	43,157	1/2	56,194		69,233	1/2	82,273	1/2	95,313		108,353	1/2	121,392
1/4 5,796 1/4 17,894 1/4 30,933 1/4 43,972 1/4 57,009 1/4 70,048 1/4 83,088 1/4 96,128 1/4 109,167 1/4 122,207 1/2 6,027 1/2 18,166 1/2 31,205 1/2 44,244 1/2 57,280 1/2 70,320 1/2 83,360 1/2 96,399 1/2 109,439 1/2 122,479 7 6,492 7 18,709 7 31,748 7 44,787 7 57,824 7 70,863 7 83,903 7 96,943 7 109,982 7 123,022 1/4 6,725 1/4 18,981 1/4 32,020 1/4 45,058 1/4 58,095 1/4 71,135 1/4 97,214 1/4 110,254 1/2 123,365 3/4 71,935 3/4 43,466 1/2 19,486 1/2 110,252 1/2 123,365	3/4	5,337		17,351		30,390		43,429		56,465		69,505	3/4	82,545	3/4	95,584	3/4	108,624	3/4	121,664
1/2 6,027 1/2 18,166 1/2 31,205 1/2 44,244 1/2 57,280 1/2 70,320 1/2 83,360 1/2 96,399 1/2 109,439 1/2 122,479 3/4 6,259 3/4 18,437 3/4 31,477 3/4 44,515 3/4 57,552 3/4 70,592 3/4 83,631 3/4 96,671 3/4 109,711 3/4 122,779 1/4 6,725 1/4 18,981 1/4 32,020 1/4 45,058 1/4 58,095 1/4 77,0863 7 83,903 7 96,694 7 109,982 7 13,022 1/2 32,292 1/2 45,330 1/2 58,095 1/4 71,135 1/4 84,175 1/4 97,214 1/4 110,254 1/4 123,224 1/2 6,960 1/2 19,252 1/2 45,333 1/2 58,667 1/2 71,407 1/2 84,466	6	5,566		17,623		30,662		43,700		56,737		69,777		82,816	6	95,856		108,896		121,936
3/4 6.259 3/4 18,437 3/4 31,477 3/4 44,515 3/4 57,552 3/4 70,592 3/4 83,631 3/4 96,671 3/4 109,711 3/4 122,750 7 6.492 7 18,709 7 31,748 7 44,787 7 57,824 7 70,863 7 83,903 7 96,943 7 109,982 7 123,022 1/4 6,725 1/4 18,981 1/4 32,020 1/4 45,058 1/4 58,095 1/4 71,135 1/4 84,175 1/4 97,214 1/4 110,254 1/4 110,254 1/4		5,796				30,933								83,088						
7 6,492 7 18,709 7 31,748 7 44,787 7 57,824 7 70,863 7 83,903 7 96,943 7 109,982 7 123,022 1/4 6,725 1/4 18,981 1/4 32,020 1/4 45,058 1/4 58,095 1/4 71,135 1/4 84,175 1/4 97,214 1/4 110,254 1/4 123,292 1/2 6,960 1/2 19,252 1/2 32,292 1/2 45,330 1/2 58,367 1/2 71,407 1/2 84,446 1/2 97,486 1/2 110,526 1/4 123,356 3/4 7,195 3/4 19,524 3/4 32,555 3/4 45,602 3/4 58,639 3/4 71,678 3/4 84,718 3/4 97,758 3/4 110,526 1/2 110,526 1/2 123,365 8 45,873 8 58,910 8 71,950 8	1/2	6,027																		
1/4 6,725 1/4 18,981 1/4 32,020 1/4 45,058 1/4 58,095 1/4 71,135 1/4 84,175 1/4 97,214 1/4 110,254 1/4 123,294 1/2 6,960 1/2 19,252 1/2 32,292 1/2 45,330 1/2 58,367 1/2 71,407 1/2 84,446 1/2 97,486 1/2 110,526 1/2 123,565 3/4 7,195 3/4 19,524 3/4 32,563 3/4 45,602 3/4 58,639 3/4 71,678 3/4 84,718 3/4 97,758 3/4 110,797 3/4 123,837 8 58,910 8 71,678 3/4 84,718 3/4 97,758 3/4 110,797 3/4 123,837 8 58,910 8 71,678 3/4 84,718 3/4 97,758 3/4 110,097 3/4 123,837 8 58,910 8 71,678 3/4	3/4																			
1/2 6,960 1/2 19,252 1/2 32,292 1/2 45,330 1/2 58,367 1/2 71,407 1/2 84,446 1/2 97,486 1/2 110,526 1/2 123,565 3/4 7,195 3/4 19,524 3/4 32,563 3/4 45,602 3/4 58,639 3/4 71,678 3/4 84,718 3/4 97,758 3/4 110,797 3/4 123,837 8 7,431 8 19,796 8 32,835 8 45,873 8 58,910 8 71,950 8 84,990 8 98,029 8 111,069 8 124,106 1/4 7,668 1/4 20,067 1/4 33,107 1/4 46,145 1/4 59,182 1/4 72,222 1/4 85,261 1/4 98,301 1/4 141,341 1/4 122,132 1/4 142,109 1/4 143,439 1/4 146,168 1/2 72,493 <td< td=""><td></td><td>~~~~~~~</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		~~~~~~~																		
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1/4 8,825 1/4 21,134 1/4 34,153 1/4 47,503 1/2 60,540 1/2 73,580 1/2 86,620 1/2 99,659 1/2 112,699 1/2 125,739 1/2 9,109 3/4 21,697 3/4 34,736 3/4 47,774 3/4 60,812 3/4 73,852 3/4 86,891 3/4 99,931 3/4 112,971 3/4 126,010 10 9,352 10 21,969 10 35,008 10 48,046 10 61,084 10 74,123 10 87,163 10 100,203 10 113,242 10 126,282 1/4 9,597 1/4 22,241 1/4 35,280 1/4 48,318 1/4 61,355 1/4 74,395 1/4 87,435 1/4 100,474 1/4 113,514 1/4 126,554																				
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	10	9,352																		
	1/4	9,597																	1/2	126,554
1/2 9,842 1/2 22,512 1/2 33,551 1/2 40,305 1/2 01,027 1/2 17,007	1/2	9,842																		127,097
[3/4] 10,088 [3/4] 22,784 [3/4] 35,623 [3/4] 46,601 [3/4] 01,655 [3/4] 77,555 [3/4] 127,269	3/4	10,088																		127,097
11 10,335 11 23,055 11 36,095 11 49,132 11 62,176 11 30,205 11 10,1764	11	10,335												·····						127,369
1/4 10.582 1/4 23.327 1/4 35,360 1/4 45,404 1/4 52,442 1/4 36,360 1/4 45,404 1/4 52,442 1/4 53,360 1/4 45,404 1/4 52,442 1/4 53,360 1/4 53,404 1/4 53,360 1/4 53,404 1	1/4	10,582	1/4																	127,640
1/2 10,831 1/2 23,599 1/2 35,638 1/2 49,676 1/2 62,714 1/2 73,733 1/2 30,735 1/2 30,638 1/2 49,676 1/2 32,714	1/2	10,831																		128,184
3/4 11.081 3/4 23.870 3/4 36.910 3/4 49.947 3/4 62.985 3/4 76.025 3/4 89.065 3/4 102.104 3/4 115.144 3/4 128.184	3/4	11,081	3/4	23,870	3/4	36,910	3/4	49,947	3/4	62,985	3/4	76,025	3/4	89,065	3/4	102,104	3/4	115,144	[3/4]	120,104

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05
SAYBOLT LP



BARGE HFL-400 HULL #04-2206

1 PORT

INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11"

IVIA	NUAL G	MUC	E HEIGH	1 10	- 1 1					
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	
0	128,455	0	141,495	0	154,535	0	167,574	0	180,614	·
1/4	128,727	1/4	141,767	1/4	154,806	1/4	167,846	1/4	180,886	
1/2	128,999	1/2	142,038	1/2	155,078	1/2	168,118	1/2	181,157	· · · · · · · · · · · · · · · · · · ·
3/4	129,270	3/4	142,310	3/4	155,350	3/4	168,389	3/4	181,429	
1	129,542	1	142,582	1	155,621	1	168,661	1	181,701	
1/4	129,814	1/4	142,853	1/4	155,893	1/4	168,933	1/4	181,972	
1/2	130,085	1/2	143,125	1/2	156,165	1/2	169,204	1/2	182,244	
3/4	130,357	3/4	143,397	3/4	156,436	3/4	169,476	3/4	182,516	
2	130,629	2	143,668	2	156,708	2	169,748	2	182,787	
1/4	130,900	1/4	143,940	1/4	156,980	1/4	170,019	1/4	183,057	
1/2	131,172	1/2	144,212	1/2	157,251	1/2	170,291	1/2	183,329	
3/4	131,444	3/4	144,483	3/4	157,523	3/4	170,563	3/4	183,600	
3	131,715	3	144,755	3	157,795	3	170,834	3	183,872	
1/4	131,987	1/4	145,027	1/4	158,066	1/4	171,106	1/4	184,143	
1/2	132,259	1/2	145,298	1/2	158,338	1/2	171,378	1/2	184,415	
3/4	132,530	3/4	145,570	3/4	158,610	3/4	171,649	3/4	184,686	
4	132,802	4	145,842	4	158,881	4	171,921	4	184,957	
1/4	133,074	1/4	146,113	1/4	159,153	1/4	172,193	1/4	185,229	
1/2	133,345	1/2	146,385	1/2	159,425	1/2	172,464	1/2	185,500	
3/4	133,617	3/4	146,657	3/4	159,696	3/4	172,736	3/4	185,771	
5	133,889	5	146,928	5	159,968	5	173,008	5	186,042	
1/4	134,160	1/4	147,200	1/4	160,240	1/4	173,279	1/4	186,312	
1/2	134,432	1/2	147,472	1/2	160,511	1/2	173,551	1/2	186,583	
3/4	134,704	3/4	147,743	3/4	160,783	3/4	173,823	3/4	186,853	
6	134,975	6	148,015	6	161,055	6	174,094	6	187,123	
1/4	135,247	1/4	148,287	1/4	161,326	1/4	174,366	1/4	187,393	
1/2	135,519	1/2	148,558	1/2	161,598	1/2	174,638	1/2	187,663	
3/4	135,790	3/4	148,830	3/4	161,870	3/4	174,909	3/4	187,933	
7	136,062	7	149,102	7	162,141	7	175,181	7	188,202	
1/4	136,333	1/4	149,373	1/4	162,413	1/4	175,453	1/4	188,470	
1/2	136,605	1/2	149,645	1/2	162,685	1/2	175,724	1/2	188,739	
3/4	136,877	3/4	149,916	3/4	162,956	3/4	175,996	3/4	189,006	
8	137,148	8	150,188	8	163,228	8	176,268	8	189,271	·
1/4	137,420	1/4	150,460	1/4	163,499	1/4	176,539	1/4	189,528	•
1/2	137,692	1/2	150,731	1/2	163,771	1/2	176,811	1/2	189,772	
3/4	137,963	3/4	151,003	3/4	164,043	3/4	177,082	3/4	190,001	
9	138,235	9	151,275	9	164,314	9	177,354	9	190,215	
1/4	138,507	1/4	151,546	1/4	164,586	1/4	177,626	1/4	190,413	
1/2	138,778	1/2	151,818	1/2	164,858	3/4	177,897	+		
3/4	139.050	3/4	152,090	10	165,129		178,169	-		
10	139,322	10	152,361		165,401	1/4	178,441	-		
1/4	139,593	1/4	152,633	1/4	165,673	1/4	178,712	-		
1/2	139,865	1/2	152,905	1/2	165,944		178,984	-		
3/4	140,137	3/4	153,176	3/4	166,216	3/4	179,256	-		
11	140,408	111	153,448	11	166,488	1/4	179,527 179,799	1		
1/4	140,680	1/4	153,720	1/4	166,759	1/4		1		
1/2	140,952	1/2	153,991	3/4	167,031	3/4	180,071	1		
3/4	141,223	3/4	154,263	13/4	167,303	13/4	180,342	L		
24110			CENTED! INC DI	HIZHEVI	D AND 201 40* FC	DWADD.	OE AET DI 11 PUE	: A D		CHART IS CERTIFIED FOR THIS TANK ONLY.

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05



BAKGE HFL-400 HULL #04-2206

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INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

				1 10	7 11 3/0														
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	601	0	11,360	0	24,171	0	37,208	0	50,243	0	63,279	0	76,316	0	89,354	0	102,391	0	115,428
1/4	735	1/4	11,611	1/4	24,442	1/4	37,479	1/4	50,515	1/4	63,551	1/4	76,588	1/4	89,625	1/4	102,662	1/4	115,700
1/2	884	1/2	11,864	1/2	24,714	1/2	37,751	1/2	50,786	1/2	63,822	1/2	76,860	1/2	89,897	1/2	102,934	1/2	115,971
3/4	1,048	3/4	12,117	3/4	24,985	3/4	38,022	3/4	51,058	3/4	64,094	3/4	77,131	3/4	90,168	3/4	103,206	3/4	116,243
1	1,226	11	12,372	1	25,257	1	38,294	1	51,329	1	64,365	1	77,403	1	90,440	1	103,477	1	116,515
1/4	1,419	1/4	12,627	1/4	25,529	1/4	38,566	1/4	51,601	1/4	64,637	1/4	77,674	1/4	90,712	1/4	103,749	1/4	116,786
1/2	1,623	1/2	12,883	1/2	25,800	1/2	38,837	1/2	51,872	1/2	64,909	1/2	77,946	1/2	90,983	1/2	104,021	1/2	117,058
3/4	1,833	3/4	13,141	3/4	26,072	3/4	39,109	3/4	52,144	3/4	65,180	3/4	78,218	3/4	91,255	3/4	104,292	3/4	117,329
2	2,046	2	13,399	2	26,343	2	39,380	2	52,415	2	65,452	2	78,489	2	91,526	2	104,564	2	117,601
1/4	2,259	1/4	13,658	1/4	26,615	1/4	39,652	1/4	52,687	1/4	65,724	1/4	78,761	1/4	91,798	1/4	104,835	1/4	117,873
1/2	2,474	1/2	13,918	1/2	26,887	1/2	39,924	1/2	52,958	1/2	65,995	1/2	79,032	1/2	92,070	1/2	105,107	1/2	118,144
3/4	2,690	3/4	14,179	3/4	27,158	3/4	40,195	3/4	53,230	3/4	66,267	3/4	79,304	3/4	92,341	3/4	105,379	3/4	118,416
3	2,907	3	14,441	3	27,430	3	40,467	3	53,502	3	66,538	3	79,576	3	92,613	3	105,650	3	118,687
1/4	3,126	1/4	14,704	1/4	27,702	1/4	40,739	1/4	53,773	1/4	66,810	1/4	79,847	1/4	92,885	1/4	105,922	1/4	118,959
1/2	3,345	1/2	14,968	1/2	27,973	1/2	41,010	1/2	54,045	1/2	67,082	1/2	80,119	1/2	93,156	1/2	106,193	1/2	119,231
3/4	3,565	3/4	15,232	3/4	28,245	3/4	41,282	3/4	54,316	3/4	67,353	3/4	80,390	3/4	93,428	3/4	106,465	3/4	119,502
4	3,787	4	15,498	4	28,516	4	41,553	4	54,588	4	67,625	4	80,662	4	93,699	4	106,737	4	119,774
1/4	4,009	1/4	15,765	1/4	28,788	1/4	41,825	1/4	54,859	1/4	67,896	1/4	80,934	1/4	93,971	1/4	107,008	1/4	120,046
1/2	4,232	1/2	16,032	1/2	29,060	1/2	42,096	1/2	55,131	1/2	68,168	1/2	81,205	1/2	94,243	1/2	107,280	1/2	120,317
3/4	4,457	3/4	16,301	3/4	29,331	3/4	42,368	3/4	55,402	3/4	68,440	3/4	81,477	3/4	94,514	3/4	107,551	3/4	120,589
5	4,682	5	16,570	5	29,603	5	42,640	5	55,674	5	68,711	5	81,748	5	94,786	5	107,823	5	120,860
1/4	4,908	1/4	16,840	1/4	29,874	1/4	42,911	1/4	55,946	1/4	68,983	1/4	82,020	1/4	95,057	1/4	108,095	1/4	121,132
1/2	5,136	1/2	17,110	1/2	30,146	1/2	43,183	1/2	56,217	1/2	69,254	1/2	82,292	1/2	95,329	1/2	108,366	1/2	121,404
3/4	5,364	3/4	17,381	3/4	30,418	3/4	43,454	3/4	56,489	3/4	69,526	3/4	82,563	3/4	95,601	3/4	108,638	3/4	121,675
6	5,593	6	17,652	6	30,689	6	43,726	6	56,760	6	69,798	6	82,835	6	95,872	6	108,909	6	121,947
1/4	5,823	1/4	17,924	1/4	30,961	1/4	43,997	1/4	57,032	1/4	70,069	1/4	83,107	1/4	96,144	1/4	109,181	1/4	122,218
1/2	6,054	1/2	18,195	1/2	31,232	1/2	44,269	1/2	57,304	1/2	70,341	1/2	83,378	1/2	96,415	1/2	109,453	1/2	122,490
3/4	6,286	3/4	18,467	3/4	31,504	3/4	44,540	3/4	57,575	3/4	70,612	3/4	83,650	3/4	96,687	3/4	109,724	3/4	122,762
7	6,518	7	18,738	7	31,776	7	44,812	7	57,847	7	70,884	7	83,921	7	96,959	7	109,996	7	123,033
1/4	6,752	1/4	19,010	1/4	32,047	1/4	45,084	1/4	58,118	1/4	71,156	1/4	84,193	1/4	97,230	1/4	110,268	1/4	123,305
1/2	6,987	1/2	19,282	1/2	32,319	1/2	45,355	1/2	58,390	1/2	71,427	1/2	84,465	1/2	97,502	1/2	110,539	1/2	123,576
3/4	7,222	3/4	19,553	3/4	32,590	3/4	45,627	3/4	58,662	3/4	71,699	3/4	84,736	3/4	97,773	3/4	110,811	3/4	123,848
8	7,458	8	19,825	8	32,862	8	45,898	8	58,933	8	71,971	8	85,008	8	98,045	8	111,082	8	124,120
1/4	7,695	1/4	20,096	1/4	33,134	1/4	46,170	1/4	59,205	1/4	72,242	1/4	85,279	1/4	98,317	1/4	111,354	1/4	124,391
1/2	7,934	1/2	20,368	1/2	33,405	1/2	46,441	1/2	59,476	1/2	72,514	1/2	85,551	1/2	98,588	1/2	111,626	1/2	124,663
3/4	8,172	3/4	20,640	3/4	33,677	3/4	46,713	3/4	59,748	3/4	72,785	3/4	85,823	3/4	98,860	3/4	111,897	3/4	124,934
9	8,412	9	20,911	9	33,949	9	46,984	9	60,020	9	73,057	9	86,094	9	99,132	9	112,169	9	125,206
1/4	8,653	1/4	21,183	1/4	34,220	1/4	47,256	1/4	60,291	1/4	73,329	1/4	86,366	1/4	99,403	1/4	112,440	1/4	125,478
1/2	8.894	1/2	21,454	1/2	34,492	1/2	47,527	1/2	60,563	1/2	73,600	1/2	86,637	1/2	99,675	1/2	112,712	1/2	125,749
3/4	9,137	3/4	21,726	3/4	34,763	3/4	47,799	3/4	60,835	3/4	73,872	3/4	86,909	3/4	99,946	3/4	112,984	3/4	126,021
10	9,380	10	21,998	10	35,035	10	48,071	10	61,106	10	74,143	10	87,181	10	100,218	10	113,255	10	126,293
1/4	9,624	1/4	22,269	1/4	35,336	1/4	48,342	1/4	61,378	1/4	74,145	1/4	87,161	1/4	100,218	1/4	113,527	1/4	126,564
1/2	9.869	1/2	22,541	1/2	35,578	1/2	48,614	1/2	61,649	1/2	74,413	1/2	87,432	1/2	100,490	1/2	113,327	1/2	126,836
3/4	10,115	3/4	22,813	3/4	35,850	3/4	48,885	3/4	61,649	3/4	74,958	3/4	87,724	3/4	101,033	3/4	114,070	3/4	127,107
		11	23,084			11				11		11				11	114,342	11	127,379
111	10,362	1/4		1/4	36,121	1/4	49,157	11	62,193	1/4	75,230	1/4	88,267	1/4	101,304	1/4	114,342	1/4	127,651
1/4	10,610		23,356		36,393		49,428	1/4	62,464		75,501		88,539		101,576	1/4	114,813	1/2	127,922
1/2	10,859	1/2	23,627	1/2	36,664	1/2	49,700	1/2	62,736	1/2	75,773	1/2	88,810	1/2	101,848	3/4		3/4	128,194
3/4	11,109	3/4	23,899	3/4	36,936	3/4	49,971	3/4	63,007	3/4	76,045	3/4	89,082	3/4	102,119	13/4	115,157	[3/4]	120,194

GAUGE LOCATED 11'-4" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

(). Endriso

BARGE HFL-400 HULL #04-2206

1 STARBOARD

INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	128,465	0	141,503	0	154,540	0	167,577	0	180,615
/4	128,737	1/4	141,774	1/4	154,812	1/4	167,849	1/4	180,886
/2	129,009	1/2	142,046	1/2	155,083	1/2	168,120	1/2	181,158
3/4	129,280	3/4	142,318	3/4	155,355	3/4	168,392	3/4	181,429
1	129,552	1	142,589	1	155,626	1	168,664	1	181,701
1/4	129,823	1/4	142,861	1/4	155,898	1/4	168,935	1/4	181,973
1/2	130.095	1/2	143,132	1/2	156,170	1/2	169,207	1/2	182,244
3/4	130,367	3/4	143,404	3/4	156,441	3/4	169,479	3/4	182,516
2	130,638	2	143,676	2	156,713	2	169,750	2	182,789
1/4	130,910	1/4	143,947	1/4	156,984	1/4	170,022	1/4	183,060
1/2	131,182	1/2	144,219	1/2	157,256	1/2	170,293	1/2	183,332
3/4	131,453	3/4	144,490	3/4	157,528	3/4	170,565	3/4	183,603
3	131,725	3	144,762	3	157,799	3	170,837	3	183,875
1/4	131,996	1/4	145,034	1/4	158,071	1/4	171,108	1/4	184,146
1/2	132,268	1/2	145,305	1/2	158,343	1/2	171,380	1/2	184,418
3/4	132,540	3/4	145,577	3/4	158,614	3/4	171,651	3/4	184,689
4	132,811	4	145,848	4	158,886	4	171,923	4	184,961
1/4	133,083	1/4	146,120	1/4	159,157	1/4	172,195	1/4	185,232
1/2	133,354	1/2	146,392	1/2	159,429	1/2	172,466	1/2	185,503
3/4	133,626	3/4	146,663	3/4	159,701	3/4	172,738	3/4	185,774
5	133,898	5	146,935	5	159,972	5	173,009	5	186,045
1/4	134,169	1/4	147,207	1/4	160,244	1/4	173,281	1/4	186,315
1/2	134,441	1/2	147,478	1/2	160,515	1/2	173,553	1/2	186,586
3/4	134,712	3/4	147,750	3/4	160,787	3/4	173,824	3/4	186,856
5	134,984	6	148,021	6	161,059	6	174,096	6	187,126
1/4	135,256	1/4	148,293	1/4	161,330	1/4	174,367	1/4	187,396
1/2	135,527	1/2	148,565	1/2	161,602	1/2	174,639	1/2	187,666
3/4	135,799	3/4	148,836	3/4	161,873	3/4	174,911	3/4	187,935
7	136,070	7	149,108	7	162,145	7	175,182	7	188,204
/4	136,342	1/4	149,379	1/4	162,417	1/4	175,454	1/4	188,473
1/2	136,614	1/2	149,651	1/2	162,688	1/2	175,726	1/2	188,740
3/4	136,885	3/4	149,923	3/4	162,960	3/4	175,997	3/4	189,007
1	137,157	8	150,194	8	163,231	8	176,269	8	189,268
/4	137,429	1/4	150,466	1/4	163,503	1/4	176,540	1/4	189,518
/2	137,700	1/2	150,737	1/2	163,775	1/2	176,812	1/2	189,753
3/4	137,972	3/4	151,009	3/4	164,046	3/4	177,084	3/4	189,972
-	138,243	9	151,281	9	164,318	9	177,355	9	190,177
14	138,515	1/4	151,552	1/4	164,590	1/4	177,627	1/4	190,367
12	138,787	1/2	151,824	1/2	164,861	1/2	177,898	4	
/4	139,058	3/4	152,095	3/4	165,133	3/4	178,170	4	
0	139,330	10	152,367	10	165,404	10	178,442	4	
/4	139,601	1/4	152,639	1/4	165,676	1/4	178,713	-	
/2	139,873	1/2	152,910	1/2	165,948	1/2	178,985	4	
1/4	140,145	3/4	153,182	3/4	166,219	3/4	179,256	4	
1	140,416	11	153,454	11	166,491	11	179,528	4	
14	140,688	1/4	153,725	1/4	166,762	1/4	179,800	4	
/2	140,959	1/2	153,997	1/2	167,034	1/2	180,071	4	
1/4	141,231	3/4	154,268	3/4	167,306	3/4	180,343		

GAUGE LOCATED 11'-4" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05
SAYBOLT LP

A Endress

BARGE HFL-400 HULL #04-2206

2 POR I INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-10 7/8"

1 17 1 1/11	HISCOME !		r irian		-10 7/0														
1N	O FT.	.IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	929	0	15,591	0	30,713	0	45,834	0	60,953	0	76,074	0	91,195	0	106,317				
1/4	1,127	1/4	15,906	1/4	31,028	1/4	46,149	1/4	61,268	1/4	76,389	1/4	91,510	1/4	106,317	1/4	121,438 121,753	1/4	136,560
1/2	1,345	1/2	16,221	1/2	31,343	1/2	46,464	1/2	61,583	1/2	76,704	1/2	91,825	1/2	106,947	1/2	122,068	1/2	136,875 137,190
3/4	1,582	3/4	16,537	3/4	31,658	3/4	46,779	3/4	61,898	3/4	77,019	3/4	92,140	3/4	107,262	3/4	122,383	3/4	137,505
1	1,840	11	16,852	1	31,973	1	47,094	1	62,213	1	77,334	1	92,455	1	107,577	11	122,698	1	137,820
1/4	2,116	1/4	17,167	1/4	32,288	1/4	47,409	1/4	62,528	1/4	77,649	1/4	92,770	1/4	107,892	1/4	123,013	1/4	138,135
1/2	2,412	1/2	17,482	1/2	32,603	1/2	47,724	1/2	62,843	1/2	77,964	1/2	93,085	1/2	108,207	1/2	123,328	1/2	138,450
3/4	2,718	3/4	17,797	3/4	32,918	3/4	48,039	3/4	63,158	3/4	78,279	3/4	93,400	3/4	108,522	3/4	123,643	3/4	138,765
2	3,028	2	18,112	2	33,233	2	48,354	2	63,473	2	78,594	2	93,715	2	108,837	2	123,958	2	139,080
1/4	3,338	1/4	18,427	1/4	33,548	1/4	48,669	1/4	63,788	1/4	78,909	1/4	94,031	1/4	109,152	1/4	124,273	1/4	139,395
1/2	3,649	1/2	18,742	1/2	33,863	1/2	48,984	1/2	64,103	1/2	79,224	1/2	94,346	1/2	109,467	1/2	124,588	1/2	139,710
3/4	3,960	3/4	19,057	3/4	34,178	3/4	49,299	3/4	64,418	3/4	79,539	3/4	94,661	3/4	109,782	3/4	124,903	3/4	140,025
3	4,271	3	19,372	3	34,493	3	49,614	3	64,733	3	79,854	3	94,976	3	110,097	3	125,218	3	140,340
1/4	4,584	1/4	19,687	1/4	34,808	1/4	49,929	1/4	65,048	1/4	80,169	1/4	95,291	1/4	110,412	1/4	125,534	1/4	140,655
1/2	4,896	1/2	20,002	1/2	35,123	1/2	50,244	1/2	65,363	1/2	80,484	1/2	95,606	1/2	110,727	1/2	125,849	1/2	140,970
3/4	5,209	3/4	20,317	3/4	35,438	3/4	50,559	3/4	65,678	3/4	80,799	3/4	95,921	3/4	111,042	3/4	126,164	3/4	141,285
4	5,522	4	20,632	4	35,753	4	50,874	4	65,993	4	81,114	4	96,236	4	111,357	4	126,479	4	141,600
1/4	5,835	1/4	20,947	1/4	36,068	1/4	51,189	1/4	66,308	1/4	81,429	1/4	96,551	1/4	111,672	1/4	126,794	1/4	141,915
1/2	6,148	1/2	21,262	1/2	36,383	1/2	51,504	1/2	66,623	1/2	81,744	1/2	96,866	1/2	111,987	1/2	127,109	1/2	142,230
3/4	6,462	3/4	21,577	3/4	36,698	3/4	.51,819	3/4	66,938	3/4	82,059	3/4	97,181	3/4	112,302	3/4	127,424	3/4	142,545
5	6,776	5	21,892	5	37,013	5	52,134	5	67,253	5	82,374	5	97,496	5	112,617	5	127,739	5	142,860
1/4	7,090	1/4	22,207	1/4	37,328	1/4	52,449	1/4	67,568	1/4	82,689	1/4	97,811	1/4	112,932	1/4	128,054	1/4	143,175
1/2	7,404	1/2	22,522	1/2	37,644	1/2	52,764	1/2	67,883	1/2	83,004	1/2	98,126	1/2	113,247	1/2	128,369	1/2	143,490
3/4	7,718	3/4	22,837	3/4	37,959	3/4	53,079	3/4	68,198	3/4	83,319	3/4	98,441	3/4	113,562	3/4	128,684	3/4	143,805
1/4	8,033	_ 6	23,152	6	38,274	6	53,394	6	68,513	6	83,635	6	98,756	6	113,877	6	128,999	6	144,120
1/2	8,347 8,662	1/4	23,467	1/4	38,589	1/4	53,709	1/4	68,828	1/4	83,950	1/4	99,071	1/4	114,192	1/4	129,314	1/4	144,435
3/4	8,976	3/4	23,782	3/4	38,904	1/2	54,024	1/2	69,143	1/2	84,265	1/2	99,386	1/2	114,507	1/2	129,629	1/2	144,750
3/4	9,291	7	24,097 24,412	7	39,219	3/4	54,339	3/4	69,458	3/4	84,580	3/4	99,701	3/4	114,822	3/4	129,944	3/4	145,065
1/4	9,606	1/4	24,412	1/4	39,534	7	54,654	7	69,773	7	84,895	7	100,016	7	115,138	7	130,259	7	145,380
1/2	9,921	1/2	25,042	1/2	39,849 40,164	1/2	54,969	1/4	70,088	1/4	85,210	1/4	100,331	1/4	115,453	1/4	130,574	1/4	145,695
3/4	10,236	3/4	25,357	3/4	40,164	3/4	55,284 55,599	3/4	70,403 70,718	3/4	85,525	1/2	100,646	1/2	115,768	1/2	130,889	1/2	146,010
9/4	10,551	8	25,672	8	40,794	8		8		8	85,840	3/4	100,961	3/4	116,083	3/4	131,204	3/4	146,325
1/4	10,866	1/4	25,987	1/4	41,109	1/4	55,914 56,229	1/4	71,033 71,348	1/4	86,155	8	101,276	8	116,398	8	131,519	8	146,641
1/2	11,181	1/2	26,302	1/2	41,109	1/2	56,544	1/4	71,348	1/2	86,470	1/4	101,591	1/4	116,713	1/4	131,834	1/4	146,956
3/4	11,496	3/4	26,617	3/4	41,739	3/4	56,859	3/4	71,063	3/4	86,785 87,100	3/4	101,906 102,221	3/4	117,028	3/4	132,149	3/4	147,271
9	11,811	9	26,933	9	42,054	9	57,174	9	72,293	9		9			117,343		132,464		147,586
1/4	12,126	1/4	27,248	1/4	42,369	1/4	57,174	1/4	72,608	1/4	87,415 87,730	1/4	102,536	9	117,658	9	132,779	9 1/4	147,901
1/2	12,441	1/2	27,563	1/2	42,684	1/2	57,489	1/2	72,923	1/2	88,045	1/2	102,851	1/2	117,973 118,288	1/2	133,094 133,409	1/4	148,216
3/4	12,756	3/4	27,878	3/4	42,999	3/4	58,119	3/4	73,239	3/4	88,360	3/4	103,186	3/4	118,288	3/4	133,409	3/4	148,531 148,846
10	13,071	10	28,193	10	43,314	10	58,434	10	73,554	10	88,675	10	103,796	10	118,918	10	134,039	10	149,161
1/4	13,386	1/4	28,508	1/4	43,629	1/4	58,749	1/4	73,869	1/4	88,990	1/4	104,111	1/4	119,233	1/4	134,354	1/4	149,476
1/2	13,701	1/2	28,823	1/2	43,944	1/2	59,064	1/2	74,184	1/2	89,305	1/2	104,111	1/2	119,233	1/2	134,569	1/2	149,476
3/4	14,016	3/4	29,138	3/4	44,259	3/4	59,379	3/4	74,104	3/4	89,620	3/4	104,742	3/4	119,863	3/4	134,984	3/4	150,106
11	14,331	11	29,453	11	44,574	11	59,694	111	74,814	111	89,935	11	105,057	11	120,178	11	135,299	11	150,421
1/4	14,646	1/4	29,768	1/4	44,889	1/4	60,009	1/4	75,129	1/4	90,250	1/4	105,372	1/4	120,178	1/4	135,614	1/4	150,736
1/2	14,961	1/2	30,083	1/2	45,204	1/2	60,324	1/2	75,444	1/2	90,565	1/2	105,687	1/2	120,493	1/2	135,930	1/2	151,051
3/4	15,276	3/4	30,398	3/4	45,519	3/4	60,639	3/4	75,759	3/4	90,880	3/4	106,002	3/4	121,123	3/4	136,245	3/4	151,366
3, 1			00,000	10,7	10,010			10,71		10,1	00,000	17,41	100,002	10/4	121,123	13/41	100,240	10,-1	131,300

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.

COMPUTED BY: JF 03/16/05 STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

1. Endress

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ, 07033

BARGE HFL-400 HULL #04-2206

2 PORT INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-10 7/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	151,681	0	166,802	0	181,924	0	197,045	0	212,167
1/4	151,996	1/4	167,117	1/4	182,239	1/4	197,360	1/4	212,482
1/2	152,311	1/2	167,433	1/2	182,554	1/2	197,675	1/2	212,797
3/4	152,626	3/4	167,748	3/4	182,869	3/4	197,990	3/4	213,113
1	152,941	1	168,063	1	183,184	1	198,305	1	213,428
1/4	153,256	1/4	168,378	1/4	183,499	1/4	198,620	1/4	213,743
1/2	153,571	1/2	168,693	1/2	183,814	1/2	198,935	1/2	214,058
3/4	153,886	3/4	169,008	3/4	184,129	3/4	199,251	3/4	214,373
2	154,201	2	169,323	2	184,444	2	199,566	2	214,688
1/4	154,516	1/4	169,638	1/4	184,759	1/4	199,881	1/4	215,003
1/2	154,831	1/2	169,953	1/2	185,074	1/2	200,196	1/2	215,318
3/4	155,146	3/4	170,268	3/4	185,389	3/4	200,511	3/4	215,632
3	155,461	3	170,583	3	185,704	3	200,826	3	215,947
1/4	155,776	1/4	170,898	1/4	186,019	1/4	201,141	1/4	216,261
1/2	156,091	1/2	171,213	1/2	186,334	1/2	201,456	1/2	216,576
3/4	156,406	3/4	171,528	3/4	186,649	3/4	201,771	3/4	216,890
4	156,721	4	171,843	4	186,964	4	202,086	4	217,204
1/4	157,037	1/4	172,158	1/4	187,279	1/4	202,401	1/4	217,517
1/2	157,352	1/2	172,473	1/2	187,594	1/2	202,716	1/2	217,831
3/4	157,667	3/4	172,788	3/4	187,909	3/4	203,031	3/4	218,144
5	157,982	5	173,103	5	188,224	5	203,346	5	218,457
1/4	158,297	1/4	173,418	1/4	188,540	1/4	203,661	1/4	218,770
1/2	158,612	1/2	173,733	1/2	188,855	1/2	203,976	1/2	219,082
3/4	158,927	3/4	174,048	3/4	189,170	3/4	204,291	3/4	219,394
6	159,242	6	174,363	6	189,485	6	204,606	6	219,705
1/4	159,557	1/4	174,678	1/4	189,800	1/4	204,921	1/4	220,016
1/2	159,872	1/2	174,993	1/2	190,115	1/2	205,236	1/2	220,326
3/4	160,187	3/4	175,308	3/4	190,430	3/4	205,551	3/4	220,631
7	160,502	7	175,623	7	190,745	7	205,866	7	220,923
1/4	160,817	1/4	175,938	1/4	191,060	1/4	206,181	1/4	221,198
1/2	161,132	1/2	176,253	1/2	191,375	1/2	206,496	1/2	221,455
3/4	161,447	3/4	176,568	3/4	191,690	3/4	206,811	3/4	221,695
3	161,762	8	176,883	8	192,005	8	207,126	8	221,917
1/4	162,077	1/4	177,198	1/4	192,320	1/4	207,441	1/4	222,122
1/2	162,392	1/2	177,513	1/2	192,635	1/2	207,756	1/2	222,309
3/4	162,707	3/4	177,828	3/4	192,950	3/4	208,071	3/4	222,479
9	163,022	9	178,144	9	193,265	9	208,386	9	222,632
1/4	163,337	1/4	178,459	1/4	193,580	1/4	208,701	_	
1/2	163,652	1/2	178,774	1/2	193,895	1/2	209,016	_	
3/4	163,967	3/4	179,089	3/4	194,210	3/4	209,331	_	
10	164,282	10	179,404	10	194,525	10	209,647	_	
1/4	164,597	1/4	179,719	1/4	194,840	1/4	209,962	-	
1/2	164,912	1/2	180,034	1/2	195,155	1/2	210,277	_	
3/4	165,227	3/4	180,349	3/4	195,470	3/4	210,592	-	
11	165,542	11	180,664	11	195,785	11	210,907	-	
1/4	165,857	. 1/4	180,979	1/4	196,100	1/4	211,222	-	
1/2	166,172	1/2	181,294	1/2	196,415	1/2	211,537	_	
3/4	166,487	3/4	181,609	3/4	196,730	3/4	211,852		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

). Endrew

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

2 STARBOARD

INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

1817	AINOWE C	JAUU	L IILIGII		-11 3/0														
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	920	0	15,627	0	30,800	0	45,974	0	61,146	0	76,318	0	91,492	0	106,666	0	121,840	0	137,013
1/4	1,118	· 1/4	15,943	1/4	31,116	1/4	46,290	1/4	61,462	1/4	76,635	1/4	91,808	1/4	106,982	1/4	122,156	1/4	137,330
1/2	1,335	1/2	16,259	1/2	31,433	1/2	46,606	1/2	61,778	1/2	76,951	1/2	92,124	1/2	107,298	1/2	122,472	1/2	137,646
3/4	1,572	3/4	16,575	3/4	31,749	3/4	46,922	3/4	62,094	3/4	77,267	3/4	92,441	3/4	107,614	3/4	122,788	3/4	137,962
1	1,829	1	16,891	1	32,065	1	47,238	1	62,410	1	77,583	1	92,757	1	107,930	1	123,104	1	138,278
1/4	2,106	1/4	17,207	1/4	32,381	1/4	47,555	1/4	62,72 6	1/4	77,899	1/4	93,073	1/4	108,247	1/4	123,420	1/4	138,594
1/2	2,402	1/2	17,523	1/2	32,697	1/2	47,871	1/2	63,042	1/2	78,215	1/2	93,389	1/2	108,563	1/2	123,736	1/2	138,910
3/4	2,709	3/4	17,839	3/4	33,013	3/4	48,187	3/4	63,358	3/4	78,531	3/4	93,705	3/4	108,879	3/4	124,053	3/4	139,226
2	3,019	2	18,156	2	33,329	2	48,503	2	63,674	2	78,847	2	94,021	2	109,195	2	124,369	2	139,542
1/4	3,331	1/4	18,472	1/4	33,645	1/4	48,819	1/4	63,990	1/4	79,163	1/4	94,337	1/4	109,511	1/4	124,685	1/4	139,859
1/2	3,642	1/2	18,788	1/2	33,962	1/2	49,135	1/2	64,306	1/2	79,480	1/2	94,653	1/2	109,827	1/2	125,001	1/2	140,175
3/4	3,955	3/4	19,104	3/4	34,278	3/4	49,451	3/4	64,622	3/4	79,796	3/4	94,969	3/4	110,143	3/4	125,317	3/4	140,491
3	4,268	3	19,420	3	34,594	3	49,767	3	64,938	3	80,112	3	95,286	3	110,459	3	125,633	3	140,807
1/4	4,581	1/4	19,736	1/4	34,910	1/4	50,083	1/4	65,255	1/4	80,428	1/4	95,602	1/4	110,775	1/4	125,949	1/4	141,123
1/2	4,894	1/2	20,052	1/2	35,226	1/2	50,400	1/2	65,571	1/2	80,744	1/2	95,918	1/2	111,092	1/2	126,265	1/2	141,439
3/4	5,208	3/4	20,368	3/4	35,542	3/4	50,716	3/4	65,887	3/4	81,060	3/4	96,234	3/4	111,408	3/4	126,581	3/4	141,755
4	5,522	4	20,685	4	35,858	4	51,032	4	66,203	4	81,376	4	96,550	4	111,724	4	126,898	4	142,071
1/4	5,836	1/4	21,001	1/4	36,174	1/4	51,348	1/4	66,519	1/4	81,692	1/4	96,866	1/4	112,040	1/4	127,214	1/4	142,387
1/2	6,151	1/2	21,317	1/2	36,491	1/2	51,664	1/2	66,835	1/2	82,009	1/2	97,182	1/2	112,356	1/2	127,530	1/2	142,704
3/4	6,465	3/4	21,633	3/4	36,807	3/4	51,980	3/4	67,151	3/4	82,325	3/4	97,498	3/4	112,672	3/4	127,846	3/4	143,020
5	6,780	5	21,949	5	37,123	5	52,296	5	67,467	5	82,641	5	97,815	5	112,988	5	128,162	5	143,336
1/4	7,095	1/4	22,265	1/4	37,439	1/4	52,612	1/4	67,783	1/4	82,957	1/4	98,131	1/4	113,304	1/4	128,478	1/4	143,652
1/2	7,411	1/2	22,581	1/2	37,755	1/2	52,928	1/2	68,099	1/2	83,273	1/2	98,447	1/2	113,621	1/2	128,794	1/2	143,968
3/4	7,726	3/4	22,897	3/4	38,071	3/4	53,244	3/4	68,415	3/4	83,589	3/4	98,763	3/4	113,937	3/4	129,110	3/4	144,284
6	8,042	6	23,213	6	38,387	6	53,560	6	68,732	6	83,905	6	99,079	6	114,253	6	129,427	6	144,600
1/4	8,357	1/4	23,530	1/4	38,703	1/4	53,876	1/4	69,048	1/4	84,221	1/4	99,395	1/4	114,569	1/4	129,743	1/4	144,916
1/2	8,673	1/2	23,846	1/2	39,019	1/2	54,192	1/2	69,364	1/2	84,538	1/2	99,711	1/2	114,885	1/2	130,059	1/2	145,233
3/4	8,989	3/4	24,162	3/4	39,336	3/4	54,508	3/4	69,680	3/4	84,854	3/4	100,027	3/4	115,201	3/4	130,375	3/4	145,549
7	9,305	7	24,478	7	39,652	7	54,825	7	69,996	7	85,170	7	100,344	7	115,517	7	130,691	7	145,865
1/4	9,621	1/4	24,794	1/4	39,968	1/4	55,141	1/4	70,312	1/4	85,486	1/4	100,660	1/4	115,833	1/4	131,007	1/4	146,181
1/2	9,937	1/2	25,110	1/2	40,284	1/2	55,457	1/2	70,628	1/2	85,802	1/2	100,976	1/2	116,150	1/2	131,323	1/2	146,497
3/4	10,253	3/4	25,426	3/4	40,600	3/4	5 5.773	3/4	70,944	3/4	86,118	3/4	101,292	3/4	116,466	3/4	131,639	3/4	146,813
8	10,569	8	25,742	8	40,916	8	56,089	8	71,260	8	86,434	8	101,608	8	116,782	8	131,956	1/4	147,129 147,445
1/4	10,885	1/4	26,059	1/4	41,232	1/4	56,405	1/4	71,577	1/4	86,750	1/4	101,924	1/4	117,098	1/4	132,272 132,588	1/2	147,762
1/2	11,201	1/2	26,375	1/2	41,548	1/2	56,721	1/2	71,893	1/2	87,066	1/2	102,240	1/2	117,414	3/4	132,904	3/4	148,078
3/4	11,517	3/4	26,691	3/4	41,865	3/4	57,037	3/4	72,209	3/4	87,383	3/4	102,556	3/4	117,730		133,220	9	148,394
9	11,833	9	27,007	9	42,181	9	57,353	9	72,525	9	87,699	9	102,872	9	118,046	9 1/4	133,536	1/4	148,710
1/4	12,149	1/4	27,323	1/4	42,497	1/4	57,669	1/4	72,841	1/4	88,015	1/4	103,189	1/4	118,362		133,852	1/2	149,026
1/2	12,465	1/2	27,639	1/2	42,813	1/2	57,985	1/2	73,157	1/2	88,331	1/2	103,505	1/2	118,678	3/4	134,168	3/4	149,342
3/4	12,782	3/4	27,955	3/4	43,129	3/4	58,301	3/4	73,473	3/4	88,647	3/4	103,821	3/4	118,995			10	149,658
10	13,098	10	28,271	10	43,445	10	58,617	10	73,789	10	88,963	10	104,137	10	119,311	10	134,484	1/4	149,974
1/4	13,414	1/4	28,588	1/4	43,761	1/4	58,933	1/4	74,106	1/4	89,279	1/4	104,453	1/4	119,627	1/4	134,801 135,117	1/2	150,290
1/2	13,730	1/2	28,904	1/2	44,077	1/2	59,249	1/2	74,422	1/2	89,595	1/2	104,769	1/2	119,943	3/4	135,117	3/4	150,607
3/4	14,046	3/4	29,220	3/4	44,393	3/4	59,565	3/4	74,738	3/4	89,912	3/4	105,085	3/4	120,259		135,433	11	150,923
11	14,362	11	29,536	11	44,710	11	59,881	11	75,054	11	90,228	11	105,401	111	120,575	111	135,749	1/4	151,239
1/4	14,678	1/4	29,852	1/4	45,026	1/4	60,198	1/4	75,370	1/4	90,544	1/4	105,718	1/4	120,891	1/4	136,065	1/2	151,555
1/2	14,994	1/2	30,168	1/2	45,342	1/2	60,514	1/2	75,686	1/2	90,860	1/2	106,034	1/2	121,207	3/4	136,381	3/4	151,871
3/4	15,310	3/4	30,484	3/4	45,658	3/4	60,830	3/4	76,002	3/4	91,176	3/4	106,350	3/4	121,524	13/41	130,037	13/4	131,071

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.

COMPUTED BY: JF 03/16/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05



BAKGE HFL-400 HULL #04-2206

2 STARBOARD

INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

	***************************************		EHEIGH		5-11 3/8					
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	
0	152,187	0	167,361	0	182,535	0	197,708	0	212,882	
1/4	152,503	1/4	167,677	1/4	182,851	1/4	198,025	1/4	213,198	
1/2	152,819	1/2	167,993	1/2	183,167	1/2	198,341	1/2	213,514	
3/4	153,136	3/4	168,309	3/4	183,483	3/4	198,657	3/4	213,831	
1	153,452	1	168,625	1	183,799	1	198,973	1	214,147	
1/4	153,768	1/4	168,942	1/4	184,115	1/4	199,289	1/4	214,463	1
1/2 3/4	154,084	1/2	169,258	1/2	184,431	1/2	199,605	1/2	214,779	
	154,400	3/4	169,574	3/4	184,748	3/4	199,921	3/4	215,097	1
2	154,716	2	169,890	2	185,064	2	200,237	2	215,413	
1/4	155,032	1/4	170,206	1/4	185,380	1/4	200,554	1/4	215,729]
1/2	155,348	1/2	170,522	1/2	185,696	1/2	200,870	1/2	216,045	1
3/4	155,665	3/4	170,838	3/4	186,012	3/4	201,186	3/4	216,361	
3	155,981	3	171,154	3	186,328	3	201,502	3	216,677	1
1/4	156,297	1/4	171,471	1/4	186,644	1/4	201,818	1/4	216,993	1
1/2	156,613	1/2	171,787	1/2	186,960	1/2	202,134	1/2	217,309	1
3/4	156,929	3/4	172,103	3/4	187,277	3/4	202,450	3/4	217,625	
!	157,245	4	172,419	4	187,593	4	202,766	4	217,940	1
1/4	157,561	1/4	172,735	1/4	187,909	1/4	203,083	1/4	218,256	
1/2	157,877	1/2	173,051	1/2	188,225	1/2	203,399	1/2	218,571	1
3/4	158,193	3/4	173,367	3/4	188,541	3/4	203,715	3/4	218,886	1
5	158,510	5	173,683	5	188,857	5	204,031	5	219,201	1
1/4	158,826	1/4	173,999	1/4	189,173	1/4	204,347	1/4	219,516	1
1/2	159,142	1/2	174,316	1/2	189,489	1/2	204,663	1/2	219,831	1
3/4	159,458	3/4	174,632	3/4	189,805	3/4	204,979	3/4	220,145	
3	159,774	6	174,948	6	190,122	6	205,295	6	220,459	
1/4	160,090	1/4	175,264	1/4	190,438	1/4	205,611	1/4	220,773	1
1/2	160,406	1/2	175,580	1/2	190,754	1/2	205,928	1/2	221,086	
3/4	160,722	3/4	175,896	3/4	191,070	3/4	206,244	3/4	221,399	
	161,039	7	176,212	7	191,386	17	206,560	7	221,712	ĺ
14	161,355	1/4	176,528	1/4	191,702	1/4	206,876	1/4	222,024	
/2	161,671	1/2	176,845	1/2	192,018	1/2	207,192	1/2	222,334	
/4	161,987	3/4	177,161	3/4	192,334	3/4	207,508	3/4	222,640	
	162,303	8	177,477	8	192,651	8	207,824	8	222,931	
/4	162,619	1/4	177,793	1/4	192,967	1/4	208,140	1/4	223,205	
/2	162,935	1/2	178,109	1/2	193,283	1/2	208,457	1/2	223,462	
/4	163,251	3/4	178,425	3/4	193,599	3/4	208,773	3/4	223,701	
	163,568	9	178,741	9	193,915	9	209,089	9	223,922	
14	163,884	1/4	179,057	1/4	194,231	1/4	209,405	1/4	224,126	
/2	164,200	1/2	179,374	1/2	194,547	1/2	209,721	1/2	224,312	
14	164,516	3/4	179,690	3/4	194,863	3/4	210,037	_		
0	164,832	10	180,006	10	195,180	10	210,353	-		
14	165,148	1/4	180,322	1/4	195,496	1/4	210,669	-		
/2	165,464	1/2	180,638	1/2	195,812	1/2	210,986	1		
/4	165,780	3/4	180,954	3/4	196,128	3/4	211,302	_		
1.	166,096	11	181,270	11	196,444	11	211,618			
/4	166,413	1/4	181,586	1/4	196,760	1/4	211,934	_		
/2	166,729	1/2	181,902	1/2	197,076	1/2	212,250	1		
14	167,045	3/4	182,219	3/4	197,392	3/4	212,566	1		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY. COMPUTED BY: JF STRAPPED BY: CA-JAB-DH-JF 03/07/05

BAKGE HFL-400 HULL #04-2206

3 PORT

INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL, GAUGE HEIGHT 16'-11 1/4"

1		1 7			2	1 1													
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0 1/4	964	0	15,681	0	30,794	0	45,907	0	61,018	_ 0 _	76,130	0	91,243	0	106,355	0	121,456	0	136,513
1/4	1,172	1/4	15,996	1/4	31,109	1/4	46,222	1/4	61,333	1/4	76,445	1/4	91,558	1/4	106,670	1/4	121,770	1/4	136,827
3/4	1,401 1,651	3/4	16,310	1/2	31,423	1/2	46,537	1/2	61,648	1/2	76,760	1/2	91,873	1/2	106,985	1/2	122,084	1/2	* 137,141
3/4		1	16,625	3/4	31,738	3/4	46,851	3/4	61,963	3/4	77,075	3/4	92,187	3/4	107,300	3/4	122,397	3/4	137,454
1/4	1,919 2,203	1/4	16,940	1	32,053	1	47,166	1	62,277	1	77,390	11	92,502	11	107,614	_[1_]	122,711	1	137,768
1/2	2,501	1/2	17,255 17,570	1/4	32,368	1/4	47,481	1/4	62,592	1/4	77,704	1/4	92,817	1/4	107,929	1/4	123,025	1/4	138,082
3/4	2,809	3/4	17,885	3/4	32,683 32,998	3/4	47,796	1/2 3/4	62,907	1/2	78,019	1/2	93,132	1/2	108,244	1/2	123,338	1/2	138,395
2	3,118	2	18,200	2		2	48,111		63,222	3/4	78,334	3/4	93,447	3/4	108,559	3/4	123,652	3/4	138,709
1/4	3,429	1/4	18,514	1/4	33,313 33,627	1/4	48,426	2	63,537	2	78,649	2	93,762	2	108,874	2	123,966	2	139,023
1/2	3,740	1/2	18,829	1/2	33,627	1/4	48,741	1/4	63,851	1/4	78,964	1/4	94,076	1/4	109,189	1/4	124,279	1/4	139,336
3/4	4,052	3/4	19,144	3/4	34,257	3/4	49,055 49,370	3/4	64,166	3/4	79,279	1/2	94,391	1/2	109,503	1/2	124,593	1/2	139,650
3	4,364	3	19,459	3	34,572	3			64,481		79,594	3/4	94,706	3/4	109,818	3/4	124,907	3/4	139,964
1/4	4,676	1/4	19,459	1/4	34,572	1/4	49,685	1/4	64,796	3	79,909	3	95,021	3	110,133	3	125,221	3	140,277
1/2	4,988	1/2	20,089	1/2	35,202	1/2	50,000	1/2	65,111	1/4	80,223	1/4	95,336	1/4	110,448	1/4	125,534	1/4	140,591
3/4	5,301	3/4	20,404	3/4	35,202	3/4	50,315 50,630	3/4	65,425 65,740	3/4	80,538	3/4	95,651	3/4	110,763	3/4	125,848	3/4	140,904
4	5,614	4	20,404	4	35,831	4		4		4	80,853		95,966		111,078		126,162	4	141,218
1/4	5,928	1/4	21,033	1/4	36,146	1/4	50,945	1/4	66,055	1/4	81,168	4	96,280	4	111,392	4	126,475		141,531
1/2	6,241	1/2	21,348	1/2	36,461	1/2	51,259 51,574	1/2	66,370	1/2	81,483	1/4	96,595	1/4	111,707	1/4	126,789	1/4	141,845 142,158
3/4	6,555	3/4	21,663	3/4	36,776	3/4	51,889	3/4	66,685	3/4	81,798	3/4	96,910	3/4	112,022	3/4	127,103 127,416	3/4	142,158
5	6,869	5	21,978	5	37,091	5	52,204	5		5	82,113	5	97,225	5	112,337	5		5	142,785
1/4	7,183	1/4	22,293	1/4	37,406	1/4		1/4	67,314 67,629	1/4	82,427	1/4	97,540	1/4	112,652	1/4	127,730 128,044	1/4	143,098
1/2	7,163	1/2	22,293	1/2	37,406	1/2	52,519 52,833	1/4	67,829	1/2	82,742 83,057	1/2	97,855 98,169	1/4	112,967 113,281	1/4	128,044	1/2	143,411
3/4	7,811	3/4	22,922	3/4	38,035	3/4	53,148	3/4	68,259	3/4	83,372	3/4	98,484	3/4	113,596	3/4	128,671	3/4	143,724
6	8.126	6	23,237	6	38,350	6	53,463	6	68.574	6	83,687	6	98,799	6	113,911	6	128,985	6	144,035
1/4	8,440	1/4	23,552	1/4	38,665	1/4	53,778	1/4	68,888	1/4	84,002	1/4	99,114	1/4	114,226	1/4	129,298	1/4	144,346
1/2	8,755	1/2	23,867	1/2	38,980	1/2	54,093	1/2	69,203	1/2	84,317	1/2	99,429	1/2	114,541	1/2	129,612	1/2	144,658
3/4	9,069	3/4	24,182	3/4	39,295	3/4	54,407	3/4	69,518	3/4	84,631	3/4	99,744	3/4	114,856	3/4	129,926	3/4	144,969
7	9,384	7	24,497	7	39,610	7	54,722	7	69,833	7	84,946	7	100,058	7	115,170	7	130,239	7	145,279
1/4	9,699	1/4	24,811	1/4	39,924	1/4	55,037	1/4	70,148	1/4	85,261	1/4	100,373	1/4	115,485	1/4	130,553	1/4	145,590
1/2	10,013	1/2	25,126	1/2	40,239	1/2	55,352	1/2	70,463	1/2	85,576	1/2	100,688	1/2	115,800	1/2	130,867	1/2	145,898
3/4	10.328	3/4	25,441	3/4	40,554	3/4	55,667	3/4	70,778	3/4	85,891	3/4	101,003	3/4	116,115	3/4	131,181	3/4	146,201
8	10,643	8	25,756	8	40,869	8	55,981	8	71,092	8	86,206	8	101,318	8	116,430	8	131,494	8	146,500
1/4	10,958	1/4	26,071	1/4	41,184	1/4	56,296	1/4	71,407	1/4	86,520	1/4	101,633	1/4	116,745	1/4	131,808	1/4	146,794
1/2	11,273	1/2	26,386	1/2	41,499	1/2	56,611	1/2	71,722	1/2	86,835	1/2	101,947	1/2	117,060	1/2	132,122	1/2	147,083
3/4	11,588	3/4	26,701	3/4	41,814	3/4	56,926	3/4	72,037	3/4	87,150	3/4	102,262	3/4	117,374	3/4	132,435	3/4	147,368
9	11,902	9	27,015	9	42,128	9	57,241	9	72,352	9	87,465	9	102,577	9	117,689	9	132,749	9	147,647
1/4	12,217	1/4	27,330	1/4	42,443	1/4	57,555	1/4	72,667	1/4	87,780	1/4	102,892	1/4	118,004	1/4	133,063	1/4	147,922
1/2	12,532	1/2	27,645	1/2	42,758	1/2	57,870	1/2	72,982	1/2	88,095	1/2	103,207	1/2	118,319	1/2	133,376	1/2	148,192
3/4	12,847	3/4	27,960	3/4	43,073	3/4	58,185	3/4	73,296	3/4	88,409	3/4	103,522	3/4	118,633	3/4	133,690	3/4	148,457
10	13.162	10	28,275	10	43,388	10	58,500	10	73,611	10	88,724	10	103,836	10	118,947	10	134,004	10	148,718
1/4	13,477	1/4	28,590	1/4	43,703	1/4	58,815	1/4	73,926	1/4	89,039	1/4	104,151	1/4	119,261	1/4	134,317	1/4	148,973
1/2	13,792	1/2	28,905	1/2	44,018	1/2	59,129	1/2	74,241	1/2	89,354	1/2	104,466	1/2	119,574	1/2	134,631	1/2	149,224
3/4	14,106	3/4	29,219	3/4	44,332	3/4	59,444	3/4	74,556	3/4	89,669	3/4	104,781	3/4	119,888	3/4	134,945	3/4	149,472
111	14,421	11	29,534	11	44,647	11	59,759	11	74,871	11	89,984	11	105,096	11	120,202	11	135,258	11	149,716
1/4	14,736	1/4	29,849	1/4	44,962	1/4	60,074	1/4	75,186	1/4	90,298	1/4	105,411	1/4	120,515	1/4	135,572	1/4	149,955
1/2	15,051	1/2	30,164	1/2	45,277	1/2	60,389	1/2	75,500	1/2	90,613	1/2	105,725	1/2	120,829	1/2	135,886	1/2	150,189
3/4	15,366	3/4	30,479	3/4	45,592	3/4	60,703	3/4	75,815	3/4	90,928	3/4	106,040	3/4	121,143	3/4	136,199	3/4	150,420

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.
TABLE REVISED TO ACCOMMODATE CORRECTED CALCULATION.
THIS TABLE SUPERSEDES ALL TABLES ISSUED PRIOR TO 04/05

CHART IS CERTIFIED FOR THIS TANK ONLY. RE-COMPUTED BY: JF 04/25/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

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BARGE HFL-400 HULL #04-2206

3 PORT

INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL, GAUGE HEIGHT 16'-11 1/4"

IVIA			E HEIGH	1 16	'-11 1/4'	•			
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	150,651	0	161,741	0	172,831	0	183,921	0	195,011
1/4	150,882	1/4	161,972	1/4	173,062	1/4	184,152	1/4	195,242
1/2	151,113	1/2	162,203	1/2	173,293	1/2	184,383	1/2	195,473
3/4	151,344	3/4	162,434	3/4	173,524	3/4	184,614	3/4	195,704
1	151,575	1	162,665	1	173,755	1	184,845	1	195,935
1/4	151,806	1/4	162,896	1/4	173,986	1/4	185,076	1/4	196,167
1/2	152,037	1/2	163,127	1/2	174,217	1/2	185,308	1/2	196,398
3/4	152,268	3/4	163,359	3/4	174,449	3/4	185,539	3/4	196,629
2	152,500	2	163,590	2	174,680	2	185,770	2	196,860
1/4	152,731	1/4	163,821	1/4	174,911	1/4	186,001	1/4	197,091
1/2	152,962	1/2	164,052	1/2	175,142	1/2	186,232	1/2	197,321
3/4	153,193	3/4	164,283	3/4	175,373	3/4	186,463	3/4	197,552
3	153,424	3	164,514	3	175,604	3	186,694	3	197,783
1/4	153,655	1/4	164,745	1/4	175,835	1/4	186,925	1/4	198,014
1/2	153,886	1/2	164,976	1/2	176,066	1/2	187,156	1/2	198,245
3/4	154,117	3/4	165,207	3/4	176,297	3/4	187,387	3/4	198,475
4	154,348	4	165,438	4	176,528	4	187,618	4	198,706
1/4	154,579	1/4	165,669	1/4	176,759	1/4	187,849	1/4	198,936
1/2	154,810	1/2	165,900	1/2	176,990	1/2	188,080	1/2	199,166
3/4	155,041	3/4	166,131	3/4	177,221	3/4	188,311	3/4	199,396
5	155,272	5	166,362	5	177,452	5	188,542	5	199,626
1/4	155,503	1/4	166,593	1/4	177,683	1/4	188,773	1/4	199,856
1/2	155,734	1/2	166,824	1/2	177,914	1/2	189,004	1/2	200,086
3/4	155,965	3/4	167,055	3/4	178,145	3/4	189,235	3/4	200,315
6	156,196	6	167,286	6	178,376	6	189,466	6	200,544
1/4	156,427	1/4	167,517	1/4	178,607	1/4	189,697	1/4	200,773
1/2	156,658	1/2	167,748	1/2	178,838	1/2	189,928	1/2	201,001
3/4	156,889	3/4	167,979	3/4	179,069	3/4	190,159	3/4	201,229
7	157,120	7	168,210	7	179,300	7	190,390	7	201,457
1/4	157,351	1/4	168,441	1/4	179,531	1/4	190,621	1/4	201,680
1/2	157,582	1/2	168,672	1/2	179,763	1/2	190,853	1/2	201,895
3/4	157,813	3/4	168,904	3/4	179,994	3/4	191,084	3/4	202,096
8	158,045	8	169,135	8	180,225	8	191,315	8	202,284
1/4	158,276	1/4	169,366	1/4	180,456	1/4	191,546	1/4	202,459
1/2	158,507	1/2	169,597	1/2	180,687	1/2	191,777	1/2	202,439
3/4	158,738	3/4	169,828	3/4	180,918	3/4	192,008	3/4	202,769
9	158,969	9	170,059	9	181,149	9	192,239	9	202,703
1/4	159,200	1/4	170,039	1/4	181,380	1/4	192,470	1/4	202,904
1/2	159,431	1/2	170,521	1/2	181,611	1/2	192,701	1/2	203,026
3/4	159,662	3/4	170,752	3/4	181,842	3/4	192,932	11/21-	203,133
10	159,893	10	170,732	10	182,073	10	193,163	-	
1/4	160,124	1/4	171,214	1/4	182,073	1/4	193,163	4	
1/2	160,124	1/2	171,445	1/2	182,535	1/2	193,394	-	
3/4	160,586	3/4	171,445	3/4	182,766	3/4	193,825	-	
11	160,817	11	171,907	11		11		-	
1/4		1/4		1/4	182,997		194,087	-{	
1/2	161,048	1/2	172,138		183,228	1/4	194,318	-	
3/4	161,279		172,369	1/2	183,459	1/2	194,549	4	
3/41	161,510	3/4	172,600	3/4	183,690	3/4	194,780		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

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BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7
TABLE REVISED TO ACCOMMODATE CORRECTED CALCULATION.
THIS TABLE SUPERSEDES ALL TABLES ISSUED PRIOR TO 04/05

CHART IS CERTIFIED FOR THIS TANK ONLY.
RE-COMPUTED BY: JF 04/25/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05
SAYBOLT LP



SATBULLLY

U. S. Heddquarters
400 Swenson Drive
Kenilworth, NJ, 07033

BARGE HFL-400 HULL #04-2206

3 STARBOARD

INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

1.159	r					110/0														
1.59	IN	O FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
1.159	0		0	15,625	0	30,727	0	45,785	0	60,864	0	75,961	0	91,052	0				0	136,289
12		1,159	1/4	15,940	1/4	31,042	1/4	46,098	1/4	61,179	1/4	76,276	1/4		1/4				1/4	
1,878				16,254		31,356	1/2	46,411	1/2	61,493	1/2	76,590	1/2	91,681	1/2				1/2	136,916
142 2.159	3/4		3/4	16,569	3/4	31,671	3/4	46,725	3/4	61,808	3/4	76,904	3/4	91,996	3/4	107,097	3/4	122,183	3/4	137,229
12	1			16,884		31,985	1	47,038	1	62,122	1	77,219	1	92,310	1	107,412	1	122,497	1	137,542
346 2,784 34 17,827 344 32,928 344 47,928 346 63,068 344 78,182 344 93,182 344 103,369 344 103,369 34 133,431	1/4					32,300	1/4	47,351	1/4	62,437		77,533	1/4	92,625	1/4	107,726	1/4	122,810	1/4	137,856
2 3.973 2 2 18.142 2 33.244 2 48.291 7 63.380 2 78.476 2 93.569 2 1058.770 2 1723.751 2 158.796 1 14 33.678 1 14 16 88.893 1 14 18.675 1 14 33.688 1 14 48.917 1 17 64.009 1 17 79.018 1 17 1 10 108.898 1 14 12 109.299 1 17 12 13.3751 2 158.796 1 14 3.694 1 14 10.888 1 14 12.409.299 1 17 12 13.478 1 12 13.694 1 14 13.110 1 12 10.898 1 12 10.09.299 1 17 12 124.378 1 17 12 13.694 1 14 13.9110 1 12 10.898 1 12 10.09.299 1 17 12 124.378 1 17 12 13.9110 1 12 12 12 12 12 12 12 12 12 12 12 12 1				17,513	1/2	32,615	1/2	47,664	1/2	62,751		77,847	1/2	92,940	1/2	108,041	1/2	123,124	1/2	138,169
14	3/4			17,827	3/4	32,929	3/4	47,978	3/4	63,066	3/4	78,162	3/4	93,254	3/4	108,356	3/4	123,437	3/4	138,483
192 3.694 11/2 18,771 11/2 33,873 11/2 48,817 11/2 64,009 11/2 79,105 11/2 94,198 11/2 190,299 11/2 123,378 11/2 190,433 41,008 31/4 49,213 31/4 60,6434 31/4 49,4513 31/4 109,641 314 124,691 31/4 49,139,737 11/4 49,651 31 34,610 34,610 31 34,610	2			18,142		33,244	2	48,291	2	63,380	2	78,476	2	93,569	2	108,670	2	123,751	2	138,796
34 4,095 314 19,086 314 19,086 314 34,188 374 42,231 314 55,324 314 79,419 376 94,513 314 105,611 314 130,737 3 4,000 314 19,000 314,0				18,457		33,558		48,604	1/4	63,695		78,790	1/4	93,883	1/4	108,985	1/4	124,064	1/4	139,110
3 4, 4317 3 19,401 3 43,4502 3 49,545 3 64,839 1 79,733 2 99,827 2 109,929 2 175,004 3 140,050 1 40 4,650 1 141 19,115 114 19,115 114 19,115 114 19,115 114 19,115 114 19,115 114 19,115 114 119,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 115,115 114 114 114 115,115 114 114 114 115,115 114 114 114 115,115 114 114 114 114 114 114 114 114 114	1/2	3,694	1/2	18,771	1/2	33,873	1/2	48,917	1/2	64,009	1/2	79,105	1/2	94,198	1/2	109,299	1/2	124,378	1/2	139,423
14	3/4	4,005		19,086	3/4	34,188	3/4	49,231	3/4	64,324	3/4	79,419	3/4	94,513	3/4	109,614	3/4	124,691	3/4	139,737
1/2 4.941 1/2 20.930 1/2 35.132 1/2 50.172 1/2 50.275 1/2 80.362 1/2 55.487 1/2 110.558 1/2 125.631 1/2 140.677	3	4,317	3	19,401	3	34,502	3	49,545	3	64,638	3	79,733	3	94,827	3	109,929	3	125,004	3	140,050
3.44 5.586 4 20.659 4 35,760 4 50.891 4 6 5.892 314 80.676 314 55,775 314 11,10,872 314 125,548 314 140,990 4 5.896 4 20.659 4 36,789 114 20.9374 114 33,074 114 51,115 51,115 5	1/4	4,629		19,715	1/4	34,817	1/4	49,858	1/4	64,953	1/4	80,048	1/4	95,142	1/4	110,243	1/4	125,318	1/4	140,364
4 5.566 4 20.659 14 35.780 4 50.801 6 6.8.989 1 80.991 1 8 96.08	1/2	4,941	1/2	20,030	1/2	35,132	1/2	50,172	1/2	65,267	1/2	80,362	1/2	95,457	1/2	110,558	1/2	125,631	1/2	140,677
14	3/4		3/4	20,344	3/4	35,446	3/4	50,486	3/4	65,582	3/4	80,676	3/4	95,771	3/4	110,872	3/4	125,945	3/4	140,990
12	4	5,566	4	20,659	4	35,760	4	50,801	4	65,896	4	80,991	4	96,086	4	111,187	4	126,258	4	141,304
36 6.506 3.44 21,603 314 30,701 324 51,744 314 66,840 314 81,334 324 97,030 334 112,131 324 127,199 314 122,23 5 6.502 5 1,918 6 37,014 5 5 52,099 5 57,515 5 82,249 6 97,334 5 112,445 5 127,192 314 122,33 114 22,232 114 37,327 114 52,333 114 67,489 114 52,333 114 67,489 114 82,662 114 92,659 114 112,760 114 127,926 114 12,869 112 7,447 112 22,547 112 37,641 112 52,688 112 67,784 112 62,697 112 97,973 114 113,075 112 128,139 114 12,869 114 12,780 114 112,780 114 112,780 114 112,869 115 7,747 117 22,861 314 37,554 314 53,002 314 68,088 314 83,191 314 98,288 314 113,389 314 128,452 314 133,89 114 31,389 31 31 31 31 31 31 31 31 31 31 31 31 31	1/4	5,879	1/4	20,974	1/4	36,074	1/4	51,115	1/4	66,211	1/4	81,305	1/4	96,400	1/4	111,502	1/4	126,572	1/4	141,617
65 6,820 5 21,918 5 37,014 5 52,059 5 67,155 5 82,248 5 97,344 5 127,512 5 142,556 1/4 7,133 1/4 22,322 1/4 33,327 1/4 52,059 1 4 97,659 1/4 112,760 1/4 122,826 1/4 1/4 123,836 1/2 124,836 1/4 124,814 142,826 1/4 124,841	1/2		1/2	21,288		36,387	1/2	51,430	1/2	66,526	1/2	81,619	1/2	96,715	1/2	111,816	1/2	126,885	1/2	141,930
14	3/4	6,506	3/4	21,603	3/4	36,701	3/4	51,744	3/4	66,840	3/4	81,934	3/4	97,030	3/4	112,131	3/4	127,199	3/4	142,243
1/2 7,447 1/2 22,547 1/2 37,641 1/2 52,688 1/2 67,784 1/2 67,784 1/2 97,973 1/2 113,075 1/2 128,139 1/2 143,182 1/3 1/4 1/4 113,182 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	5	6,820	5	21,918	5	37,014	5	52,059	5	67,155	5	82,248	5	97,344	5	112,445	5	127,512	5	142,556
1.6 1.6	1/4	7,133	1/4	22,232	1/4	37,327	1/4	52,373	1/4	67,469	1/4	82, 562	1/4	97,659	1/4	112,760	1/4	127,826	1/4	142,869
8 8.075 6 23.176 6 38.267 6 53.216 6 68.413 6 83.505 6 98.603 6 113.704 6 128.766 6 143.806 114 8.380 114 38.580 114 55.581 114 55.681 114 68.727 114 83.820 114 98.917 114 114.019 114 129.079 114 144.117 112 38.05 112 33.894 112 55.945 112 69.042 112 84.134 112 99.232 112 114.333 112 1129.393 112 144.428 134 9.018 134 24.120 314 39.207 314 54.260 314 69.357 314 84.449 314 99.546 314 114.648 314 129.706 314 144.739 112 99.933 172 144.438 112 99.933 172 144.438 112 99.933 172 144.428 114 9.647	1/2	7,447	1/2	22,547	1/2	37,641	1/2	52,688	1/2	67,784	1/2	82,877	1/2	97,973	1/2	113,075	1/2	128,139	1/2	143,182
1/4 8.390 1/4 33.850 1/4 53.631 1/4 68.727 1/4 83.820 1/4 98.917 1/4 114.019 1/4 129.079 1/4 144.117 1/2 8.704 1/2 23.805 1/2 38.894 1/2 59.945 1/2 69.042 1/2 84.134 1/2 29.232 1/2 114.333 1/2 129.333 1/2 129.333 1/2 129.333 1/2 129.333 1/2 129.333 1/2 144.739 9,33 7 24.434 7 39.520 7 54.574 7 69.671 7 84.763 7 99.661 7 114.688 3/4 114.698 7 130,020 7 145.050 144 149.698 1/4 89.986 1/4 85.073 1/4 100,176 1/4 114.652 7 130,020 7 145.500 1/2 99.621 1/2 25.084 1/2 40,147 1/2 55.203 1/2 70,301 1/2 85.392 1/2 100,480 1/2 115.592	3/4	7,761	3/4	22,861	3/4	37,954	3/4	53,002	3/4	68,098	3/4	83,191	3/4	98,288	3/4	113,389	3/4	128,452	3/4	143,494
1/2	6	8,075	6	23,176	6	38,267	6	53,316	6	68,413	6	83,505	6	98,603	6	113,704	6	128,766	6	143,806
9.018	1/4	8,390		23,491	1/4	38,580	1/4	53,631	1/4	68,727	1/4	83,820	1/4	98,917	1/4	114,019	1/4	129,079		144,117
7 9,333 7 24,434 7 39,520 7 54,574 7 69,671 7 84,763 7 99,861 7 114,962 7 130,020 7 145,050 7/4 9,647 1/4 24,749 1/4 39,633 1/4 54,888 1/4 69,986 1/4 85,077 1/4 100,176 1/4 115,277 1/4 130,333 1/4 145,350 7/4 10,277 3/4 25,378 3/4 40,460 3/4 55,517 3/4 70,615 3/4 85,706 3/4 10,080 3/4 15,992 1/2 135,694 1/2 14,090 3/4 14,096 1/4 14,096 1/4 41,096 1/4 41,096 1/4 41,096 1/4 41,096 1/4 41,096 1/4 41,096 1/4 41,096 1/4 41,096 1/4 56,146 1/4 71,245 1/4 88,334 1/4 101,434 1/4 116,535 1/4 131,597 1/4 146,576 7/4 11,220 1/2 26,322 1/2 41,399 1/2 56,461 1/2 71,559 1/2 86,649 1/2 101,749 1/2 116,850 1/2 131,900 1/2 146,868 7/4 11,535 3/4 26,637 3/4 41,713 3/4 56,775 3/4 71,874 3/4 86,963 3/4 102,063 3/4 117,165 3/4 3/4 132,241 3/4 147,155 7/4 12,164 1/4 27,266 1/4 42,339 1/4 57,404 1/4 72,503 1/4 87,592 1/4 10,2693 1/4 117,794 1/4 132,841 1/4 147,714 1/2 12,794 1/2 12,794 1/2 27,581 1/2 42,652 1/2 57,719 1/2 72,818 1/2 87,906 1/2 103,007 1/2 118,108 1/2 133,154 1/2 147,987 1/4 13,423 1/4 28,525 1/4 43,592 1/4 58,663 1/4 73,761 1/4 88,850 1/4 10,365 1/4 119,049 1/4 133,049 1/4 148,517 1/4 13,045	1/2	8,704										84,134		99,232	1/2	114,333	1/2	129,393		
1/4 9,647 1/4 24,749 1/4 39,833 1/4 54,888 1/4 69,986 1/4 85,077 1/4 100,176 1/4 115,277 1/4 130,333 1/4 145,380 1/2 9,982 1/2 25,064 1/2 40,147 1/2 55,203 1/2 70,301 1/2 85,392 1/2 100,490 1/2 115,592 1/2 130,647 1/2 145,670 1/2 15,670 1/2 10,277 3/4 55,378 3/4 40,460 3/4 55,517 3/4 70,615 3/4 85,706 3/4 100,805 3/4 115,906 3/4 130,960 3/4 145,977 1/4 12,081 1/2 13,081 1/2 13,081 1	3/4	9,018								69,357		84,449		99,546	3/4	114,648		129,706		
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1/4 12,164 1/4 27,266 1/4 42,339 1/4 57,404 1/4 72,503 1/4 87,592 1/4 102,693 1/4 117,794 1/4 132,841 1/4 147,714 1/2 12,479 1/2 27,581 1/2 42,652 1/2 57,719 1/2 72,818 1/2 87,906 1/2 103,007 1/2 118,108 1/2 133,154 1/2 147,987 1/4 12,794 3/4 27,895 3/4 42,966 3/4 58,033 3/4 73,132 3/4 88,220 3/4 103,322 3/4 118,422 3/4 133,468 3/4 148,254 1/4 13,423 1/4 28,525 1/4 43,592 1/4 58,663 1/4 73,761 1/4 88,850 1/4 103,951 1/4 119,049 1/4 134,095 1/4 148,774 1/4 132,841 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 147,714 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1	3/4									,									_	
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3/4 12,794 3/4 27,895 3/4 42,966 3/4 58,033 3/4 73,132 3/4 88,220 3/4 103,322 3/4 118,422 3/4 133,468 3/4 148,254 10 13,108 10 28,210 10 43,279 10 58,348 10 73,447 10 88,535 10 103,636 10 118,735 10 133,781 10 148,517 1/4 13,423 1/4 28,525 1/4 43,592 1/4 58,663 1/4 73,761 1/4 88,850 1/4 103,951 1/4 119,049 1/4 134,095 1/4 148,774 1/2 13,737 1/2 28,839 1/2 43,905 1/2 58,977 1/2 74,075 1/2 89,164 1/2 104,266 1/2 119,362 1/2 134,408 1/2 149,027 3/4 14,052 3/4 44,219 3/4 59,292 3/4 74,390 3/4 89,479 3/4 104,586 3/4 119,676 3/4 134,721 3/4 149,027 11 14,367 11 29,488 11 44,532 11 59,606<	1/4	12,164							_+											
10 13.108 10 28.210 10 43.279 10 58.348 10 73.447 10 88.535 10 103.636 10 118,735 10 133,781 10 148,517 10 13.423 1/4 28,525 1/4 43.592 1/4 58,663 1/4 73,761 1/4 88,850 1/4 103,951 1/4 119,049 1/4 134,095 1/4 148,774 1/2 13,737 1/2 28,839 1/2 43,905 1/2 58,977 1/2 74,075 1/2 89,164 1/2 104,266 1/2 119,362 1/2 134,408 1/2 149,027 1/4 14,052 3/4 29,154 3/4 44,219 3/4 59,292 3/4 74,390 3/4 89,479 3/4 104,580 3/4 119,676 3/4 134,721 3/4 149,276 1/4 14,681 1/4 29,783 1/4 44,845 1/4 59,921 1/4 75,018 1/4 90,108 1/4 105,209 1/4 120,303 1/4 135,348 1/4 149,762 1/2 14,996 1/2 30,098 1/2 45,158 1/2 60,235 1/2 75,333 1/2 90,423 1/2 105,524 1/2 120,616 1/2 135,662 1/2 135,662 1/2 145,935	1/2	12,479																		
1/4 13,423 1/4 28,525 1/4 43,592 1/4 58,663 1/4 73,761 1/4 88,850 1/4 103,951 1/4 119,049 1/4 134,095 1/4 148,774 1/2 13,737 1/2 28,839 1/2 43,905 1/2 58,977 1/2 74,075 1/2 89,164 1/2 104,266 1/2 119,362 1/2 134,408 1/2 149,027 1/4 14,052 3/4 29,154 3/4 44,219 3/4 59,292 3/4 74,390 3/4 89,479 3/4 104,580 3/4 119,676 3/4 134,721 3/4 149,276 1/4 14,681 1/4 29,783 1/4 44,845 1/4 59,921 1/4 75,018 1/4 90,108 1/4 105,209 1/4 120,303 1/4 135,348 1/4 149,762 1/4 14,996 1/2 30,098 1/2 45,158 1/2 60,235 1/2 75,333 1/2 90,423 1/2 105,524 1/2 120,616 1/2 135,662 1/2 145,975 3/4 150,239	3/4	12,794		27,895																
1/4	10				~															
172 15,737 172 28,635 172 70,737 174 28,635 172 70,737 174 28,635 174 174,052	1/4	13,423																		
11 14,367 11 29,468 11 44,532 11 59,606 11 74,704 11 89,794 11 104,895 11 119,989 11 135,035 11 149,521 14 14,681 1/4 29,783 1/4 44,845 1/4 59,921 1/4 75,018 1/4 90,108 1/4 105,209 1/4 120,303 1/4 135,348 1/4 149,762 14,996 1/2 30,098 1/2 45,158 1/2 60,235 1/2 75,333 1/2 90,423 1/2 105,524 1/2 120,616 1/2 135,662 1/2 150,997 1/2 150,997 1/2 150,997 1/2 150,997 1/4 150,239 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	1/2	13,737									_+									
114 14,367 11 25,468 11 44,845 11 55,068 11 55,018 11 14 105,209 11 12 120,303 11 135,348 11 14 149,762 11 14,996 11	3/4	14,052																		
1/4 14,661 1/4 29,763 1/4 44,643 1/4 55,821 1/4 55,821 1/2 55,831 1/2 55,833	17	14,367																		
1/2 4,990 1/2 30,096 1/2 43,136 1/2 00,235 1/2 7,007 1/4 00,737 1/4 10,020 2/4 120,020 2/4 125,075 2/4 150,229	1/4	14,681																		
3/4 15.311 3/4 30.412 3/4 45,472 3/4 60,550 3/4 75,647 3/4 90,737 3/4 105,839 3/4 120,930 3/4 135,975 3/4 150,229	1/2	14,996														******				
	3/4	15,311	3/4	30,412	3/4	45,472	3/4	60,550	3/4	75,647	[3/4]	90,737	3/4	105,839	3/4	120,930	3/4	135,975	3/4	150,229

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

U. S. Headquarters 400 Swenson Drive Kenilworth, NJ 07033

BARGE HFL-400 HULL #04-2206

3 STARBOARD

INNAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IVI	MUAL G	AUG	ie Height	16	5'-11 3/8"					
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	
0	150,460	0	161,532	0	172,603	0	183,675	0	194,747	i
1/4	150,691	1/4	161,762	1/4	172,834	1/4	183,906	1/4	194,977	İ
1/2	150,921	1/2	161,993	1/2	173,065	1/2	184,136	1/2	195,208	i
3/4	151,152	3/4	162,224	3/4	173,295	3/4	184,367	3/4	195,439	i
1	151,383	1	162,454	1	173,526	1	184,598	1	195,669	i
1/4	151,613	1/4	162,685	1/4	173,757	1/4	184,828	1/4	195,900	i
1/2	151,844	1/2	162,916	1/2	173,987	1/2	185,059	1/2	196,131	
3/4	152,075	3/4	163,146	3/4	174,218	3/4	185,290	3/4	196,362	
2	152,305	2	163,377	2	174,449	2	185,520	2	196,592	
1/4	152,536	1/4	163,608	1/4	174,679	1/4	185,751	1/4	196,823	
1/2	152,766	1/2	163,838	1/2	174,910	1/2	185,982	1/2	197,054	
3/4	152,997	3/4	164,069	3/4	175,141	3/4	186,212	3/4	197,284	
3	153,228	3	164,299	3	175,371	3	186,443	3	197,515	
1/4	153,458	1/4	164,530	1/4	175,602	1/4	186,674	1/4	197,745	
1/2	153,689	1/2	164,761	1/2	175,832	1/2	186,904	1/2	197,975	
3/4	153,920	3/4	164,991	3/4	176,063	3/4	187,135	3/4	198,206	
4	154,150	4	165,222	4	176,294	4	187,365	4	198,436	
1/4	154,381	1/4	165,453	1/4	176,524	1/4	187,596	1/4	198,666	
1/2	154,612	1/2	165,683	1/2	176,755	1/2	187,827	1/2	198,896	
3/4	154,842	3/4	165,914	3/4	176,986	3/4	188,057	3/4	199,125	
5	155,073	5	166,145	5	177,216	5	188,288	5	199,355	
1/4	155,304	1/4	166,375	1/4	177,447	1/4	188,519	1/4	199,585	
1/2	155,534	1/2	166,606	1/2	177,678	1/2	188,749	1/2	199,814	
3/4	155, 765	3/4	166,837	3/4	177,908	3/4	188,980	3/4	200,043	
6	155,996	6	167,067	6	178,139	6	189,211	6	200,272	
1/4	156,226	1/4	167,298	1/4	178,370	1/4	189,441	1/4	200,500	
1/2	156,457	1/2	167,529	1/2	178,600	1/2	189,672	1/2	200,728	
3/4	156,688	3/4	167,759	3/4	178,831	3/4	189,903	3/4	200,956	
7	156,918	7	167,990	7	179,062	7	190,133	7	201,184	
1/4	157,149	1/4	168,221	1/4	179,292	1/4	190,364	1/4	201,409	
1/2	157,380	1/2	168,451	1/2	179,523	1/2	190,595	1/2	201,628	
3/4	157,610	3/4	168,682	3/4	179,754	3/4	190,825	3/4	201,835	
8	157,841	8	168,913	8	179,984	8	191,056	8	202,029	
1/4	158,072	1/4	169,143	1/4	180,215	1/4	191,287	1/4	202,209	
1/2	158,302	1/2	169,374	1/2	180,446	1/2	191,517	1/2	202,376	
3/4	158,533	3/4	169,605	3/4	180,676	3/4	191,748	3/4	202,530	
9	158,764	9	169,835	9	180,907	9	191,979	9	202,671	
1/4	158,994	1/4	170,066	1/4	181,138	1/4	192,209	1/4	202,798	
1/2	159,225	1/2	170,297	1/2	181,368	1/2	192,440	1/2	202,913	
3/4	159,456	3/4	170,527	3/4	181,599	3/4	192,671	1		
10	159,686	10	170,758	10	181,830	1/4	192,901	1		
1/4	159,917	1/4	170,989	1/4	182,060	1/2	193,132 193,363	1		
1/2	160,148	3/4	171,219	3/4	182,291 182,522	3/4	193,593	1		
3/4	160,378		171,450 171,681	11	182,752	11	193,824	1		
11	160,609	1/4	171,881	1/4	182,752	1/4	194,055	1		
1/4	160,840	1/2	171,911	1/2	183,214	1/2	194,285	1		
1/2	161,070 161,301	3/4	172,142	3/4	183,444	3/4	194,516	1		
3/4	101,301	13/4	172,070	3/4	100,777	[5/4]	107,010	4		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

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SAYBOLT LP

O. Endresi