



BARGE "HFL 433"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-0/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 21, 2015

**PRECISION MEASUREMENT
 & ANALYSIS, INC.**
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 433"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

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	1,027	0	15,626	0	30,625	0	45,607	0	60,604	0	75,603	0	90,601	0	105,600	0	120,582	0	135,561
1/4	1,261	1/4	15,939	1/4	30,937	1/4	45,919	1/4	60,916	1/4	75,915	1/4	90,914	1/4	105,912	1/4	120,894	1/4	135,873
1/2	1,496	1/2	16,251	1/2	31,250	1/2	46,231	1/2	61,229	1/2	76,227	1/2	91,226	1/2	106,225	1/2	121,206	1/2	136,185
3/4	1,730	3/4	16,564	3/4	31,562	3/4	46,543	3/4	61,541	3/4	76,540	3/4	91,539	3/4	106,537	3/4	121,518	3/4	136,497
1	1,964	1	16,876	1	31,874	1	46,856	1	61,854	1	76,852	1	91,851	1	106,850	1	121,830	1	136,809
1/4	2,256	1/4	17,189	1/4	32,187	1/4	47,168	1/4	62,166	1/4	77,165	1/4	92,164	1/4	107,162	1/4	122,142	1/4	137,121
1/2	2,549	1/2	17,501	1/2	32,499	1/2	47,480	1/2	62,479	1/2	77,477	1/2	92,476	1/2	107,474	1/2	122,454	1/2	137,433
3/4	2,841	3/4	17,814	3/4	32,812	3/4	47,793	3/4	62,791	3/4	77,790	3/4	92,788	3/4	107,787	3/4	122,766	3/4	137,745
2	3,133	2	18,126	2	33,124	2	48,105	2	63,104	2	78,102	2	93,101	2	108,099	2	123,078	2	138,057
1/4	3,444	1/4	18,439	1/4	33,437	1/4	48,417	1/4	63,416	1/4	78,415	1/4	93,413	1/4	108,411	1/4	123,390	1/4	138,369
1/2	3,756	1/2	18,751	1/2	33,749	1/2	48,730	1/2	63,729	1/2	78,727	1/2	93,726	1/2	108,723	1/2	123,702	1/2	138,681
3/4	4,067	3/4	19,064	3/4	34,062	3/4	49,042	3/4	64,041	3/4	79,040	3/4	94,038	3/4	109,035	3/4	124,014	3/4	138,993
3	4,379	3	19,376	3	34,374	3	49,355	3	64,354	3	79,352	3	94,351	3	109,348	3	124,327	3	139,305
1/4	4,691	1/4	19,688	1/4	34,686	1/4	49,667	1/4	64,666	1/4	79,665	1/4	94,663	1/4	109,660	1/4	124,639	1/4	139,617
1/2	5,003	1/2	20,001	1/2	34,999	1/2	49,980	1/2	64,978	1/2	79,977	1/2	94,976	1/2	109,972	1/2	124,951	1/2	139,929
3/4	5,316	3/4	20,313	3/4	35,311	3/4	50,292	3/4	65,291	3/4	80,290	3/4	95,288	3/4	110,284	3/4	125,263	3/4	140,241
4	5,628	4	20,626	4	35,623	4	50,605	4	65,603	4	80,602	4	95,601	4	110,596	4	125,575	4	140,553
1/4	5,940	1/4	20,938	1/4	35,935	1/4	50,917	1/4	65,916	1/4	80,915	1/4	95,913	1/4	110,908	1/4	125,887	1/4	140,865
1/2	6,253	1/2	21,251	1/2	36,247	1/2	51,230	1/2	66,228	1/2	81,227	1/2	96,226	1/2	111,220	1/2	126,199	1/2	141,177
3/4	6,565	3/4	21,563	3/4	36,559	3/4	51,542	3/4	66,541	3/4	81,539	3/4	96,538	3/4	111,532	3/4	126,511	3/4	141,489
5	6,877	5	21,876	5	36,871	5	51,855	5	66,853	5	81,852	5	96,851	5	111,844	5	126,823	5	141,801
1/4	7,190	1/4	22,188	1/4	37,183	1/4	52,167	1/4	67,166	1/4	82,164	1/4	97,163	1/4	112,156	1/4	127,135	1/4	142,113
1/2	7,502	1/2	22,501	1/2	37,495	1/2	52,480	1/2	67,478	1/2	82,477	1/2	97,476	1/2	112,468	1/2	127,447	1/2	142,425
3/4	7,815	3/4	22,813	3/4	37,807	3/4	52,792	3/4	67,791	3/4	82,789	3/4	97,788	3/4	112,780	3/4	127,759	3/4	142,737
6	8,127	6	23,126	6	38,119	6	53,105	6	68,103	6	83,102	6	98,100	6	113,093	6	128,071	6	143,048
1/4	8,440	1/4	23,438	1/4	38,431	1/4	53,417	1/4	68,416	1/4	83,414	1/4	98,413	1/4	113,405	1/4	128,383	1/4	143,356
1/2	8,752	1/2	23,750	1/2	38,743	1/2	53,729	1/2	68,728	1/2	83,727	1/2	98,725	1/2	113,717	1/2	128,695	1/2	143,663
3/4	9,065	3/4	24,063	3/4	39,055	3/4	54,042	3/4	69,041	3/4	84,039	3/4	99,038	3/4	114,029	3/4	129,007	3/4	143,970
7	9,377	7	24,375	7	39,367	7	54,354	7	69,353	7	84,352	7	99,350	7	114,341	7	129,319	7	144,278
1/4	9,690	1/4	24,688	1/4	39,679	1/4	54,667	1/4	69,666	1/4	84,664	1/4	99,663	1/4	114,653	1/4	129,631	1/4	144,573
1/2	10,002	1/2	25,000	1/2	39,991	1/2	54,979	1/2	69,978	1/2	84,977	1/2	99,975	1/2	114,965	1/2	129,944	1/2	144,868
3/4	10,315	3/4	25,313	3/4	40,303	3/4	55,292	3/4	70,290	3/4	85,289	3/4	100,288	3/4	115,277	3/4	130,256	3/4	145,163
8	10,627	8	25,625	8	40,615	8	55,604	8	70,603	8	85,602	8	100,600	8	115,589	8	130,568	8	145,458
1/4	10,939	1/4	25,938	1/4	40,927	1/4	55,917	1/4	70,915	1/4	85,914	1/4	100,913	1/4	115,901	1/4	130,880	1/4	145,737
1/2	11,252	1/2	26,250	1/2	41,239	1/2	56,229	1/2	71,228	1/2	86,227	1/2	101,225	1/2	116,213	1/2	131,192	1/2	146,015
3/4	11,564	3/4	26,563	3/4	41,551	3/4	56,542	3/4	71,540	3/4	86,539	3/4	101,538	3/4	116,525	3/4	131,504	3/4	146,294
9	11,877	9	26,875	9	41,863	9	56,854	9	71,853	9	86,852	9	101,850	9	116,837	9	131,816	9	146,573
1/4	12,189	1/4	27,188	1/4	42,175	1/4	57,167	1/4	72,165	1/4	87,164	1/4	102,163	1/4	117,149	1/4	132,128	1/4	146,836
1/2	12,502	1/2	27,500	1/2	42,487	1/2	57,479	1/2	72,478	1/2	87,476	1/2	102,475	1/2	117,461	1/2	132,440	1/2	147,099
3/4	12,814	3/4	27,812	3/4	42,799	3/4	57,792	3/4	72,790	3/4	87,789	3/4	102,788	3/4	117,773	3/4	132,752	3/4	147,362
10	13,127	10	28,125	10	43,111	10	58,104	10	73,103	10	88,101	10	103,100	10	118,085	10	133,064	10	147,625
1/4	13,439	1/4	28,437	1/4	43,422	1/4	58,417	1/4	73,415	1/4	88,414	1/4	103,413	1/4	118,397	1/4	133,376	1/4	147,872
1/2	13,752	1/2	28,750	1/2	43,734	1/2	58,729	1/2	73,728	1/2	88,726	1/2	103,725	1/2	118,710	1/2	133,688	1/2	148,119
3/4	14,064	3/4	29,062	3/4	44,046	3/4	59,041	3/4	74,040	3/4	89,039	3/4	104,037	3/4	119,022	3/4	134,000	3/4	148,366
11	14,377	11	29,375	11	44,358	11	59,354	11	74,353	11	89,351	11	104,350	11	119,334	11	134,312	11	148,613
1/4	14,689	1/4	29,687	1/4	44,671	1/4	59,666	1/4	74,665	1/4	89,664	1/4	104,662	1/4	119,646	1/4	134,624	1/4	148,844
1/2	15,002	1/2	30,000	1/2	44,983	1/2	59,979	1/2	74,978	1/2	89,976	1/2	104,975	1/2	119,958	1/2	134,936	1/2	149,075
3/4	15,314	3/4	30,312	3/4	45,295	3/4	60,291	3/4	75,290	3/4	90,289	3/4	105,287	3/4	120,270	3/4	135,248	3/4	149,306

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588
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BARGE "HFL 433"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	149,536	0	159,905	0	170,253	0	180,571	0	190,875	0		0		0		0		0	
1/4	149,756	1/4	160,121	1/4	170,468	1/4	180,786	1/4	191,068	1/4		1/4		1/4		1/4		1/4	
1/2	149,975	1/2	160,337	1/2	170,683	1/2	181,001	1/2	191,260	1/2		1/2		1/2		1/2		1/2	
3/4	150,194	3/4	160,553	3/4	170,898	3/4	181,216	3/4	191,453	3/4		3/4		3/4		3/4		3/4	
1	150,414	1	160,768	1	171,113	1	181,431	1	191,646	1		1		1		1		1	
1/4	150,629	1/4	160,984	1/4	171,327	1/4	181,646	1/4	191,806	1/4		1/4		1/4		1/4		1/4	
1/2	150,845	1/2	161,200	1/2	171,542	1/2	181,861	1/2	191,965	1/2		1/2		1/2		1/2		1/2	
3/4	151,061	3/4	161,416	3/4	171,757	3/4	182,076	3/4	192,124	3/4		3/4		3/4		3/4		3/4	
2	151,276	2	161,631	2	171,972	2	182,291	2	192,284	2		2		2		2		2	
1/4	151,492	1/4	161,847	1/4	172,187	1/4	182,506	1/4	192,407	1/4		1/4		1/4		1/4		1/4	
1/2	151,708	1/2	162,063	1/2	172,402	1/2	182,721	1/2	192,531	1/2		1/2		1/2		1/2		1/2	
3/4	151,924	3/4	162,278	3/4	172,617	3/4	182,936	3/4	192,654	3/4		3/4		3/4		3/4		3/4	
3	152,139	3	162,494	3	172,832	3	183,151	3	192,778	3		3		3		3		3	
1/4	152,355	1/4	162,710	1/4	173,047	1/4	183,366	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,571	1/2	162,926	1/2	173,262	1/2	183,581	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,786	3/4	163,141	3/4	173,477	3/4	183,795	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,002	4	163,357	4	173,692	4	184,010	4		4		4		4		4		4	
1/4	153,218	1/4	163,573	1/4	173,907	1/4	184,225	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,434	1/2	163,788	1/2	174,122	1/2	184,440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,649	3/4	164,004	3/4	174,337	3/4	184,655	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,865	5	164,220	5	174,552	5	184,870	5		5		5		5		5		5	
1/4	154,081	1/4	164,436	1/4	174,767	1/4	185,085	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,297	1/2	164,651	1/2	174,982	1/2	185,300	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,512	3/4	164,867	3/4	175,197	3/4	185,515	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,728	6	165,083	6	175,412	6	185,730	6		6		6		6		6		6	
1/4	154,944	1/4	165,299	1/4	175,627	1/4	185,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,159	1/2	165,514	1/2	175,842	1/2	186,160	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,375	3/4	165,730	3/4	176,057	3/4	186,375	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,591	7	165,946	7	176,272	7	186,590	7		7		7		7		7		7	
1/4	155,807	1/4	166,161	1/4	176,487	1/4	186,805	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,022	1/2	166,377	1/2	176,702	1/2	187,020	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,238	3/4	166,593	3/4	176,917	3/4	187,235	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,454	8	166,809	8	177,132	8	187,450	8		8		8		8		8		8	
1/4	156,670	1/4	167,024	1/4	177,347	1/4	187,665	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,885	1/2	167,240	1/2	177,561	1/2	187,880	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,101	3/4	167,456	3/4	177,776	3/4	188,095	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,317	9	167,672	9	177,991	9	188,310	9		9		9		9		9		9	
1/4	157,532	1/4	167,887	1/4	178,206	1/4	188,525	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,748	1/2	168,102	1/2	178,421	1/2	188,740	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,964	3/4	168,318	3/4	178,636	3/4	188,955	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,180	10	168,533	10	178,851	10	189,170	10		10		10		10		10		10	
1/4	158,395	1/4	168,748	1/4	179,066	1/4	189,385	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,611	1/2	168,963	1/2	179,281	1/2	189,600	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,827	3/4	169,178	3/4	179,496	3/4	189,815	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,043	11	169,393	11	179,711	11	190,029	11		11		11		11		11		11	
1/4	159,258	1/4	169,608	1/4	179,926	1/4	190,241	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,474	1/2	169,823	1/2	180,141	1/2	190,452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,690	3/4	170,038	3/4	180,356	3/4	190,663	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2015 CL
CALCULATED: 10/21/2015 CL
PRINTED: 10/21/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 433"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

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	1,027	0	15,613	0	30,582	0	45,323	0	59,861	0	74,752	0	89,698	0	104,657	0	119,606	0	134,551
1/4	1,261	1/4	15,925	1/4	30,894	1/4	45,624	1/4	60,173	1/4	75,062	1/4	90,010	1/4	104,969	1/4	119,917	1/4	134,862
1/2	1,495	1/2	16,237	1/2	31,206	1/2	45,926	1/2	60,484	1/2	75,372	1/2	90,322	1/2	105,281	1/2	120,228	1/2	135,174
3/4	1,730	3/4	16,549	3/4	31,518	3/4	46,227	3/4	60,796	3/4	75,681	3/4	90,633	3/4	105,592	3/4	120,540	3/4	135,485
1	1,964	1	16,860	1	31,830	1	46,528	1	61,107	1	75,991	1	90,945	1	105,904	1	120,851	1	135,796
1/4	2,256	1/4	17,172	1/4	32,142	1/4	46,830	1/4	61,419	1/4	76,301	1/4	91,256	1/4	106,216	1/4	121,162	1/4	136,108
1/2	2,548	1/2	17,484	1/2	32,454	1/2	47,131	1/2	61,730	1/2	76,611	1/2	91,568	1/2	106,527	1/2	121,474	1/2	136,419
3/4	2,840	3/4	17,796	3/4	32,765	3/4	47,433	3/4	62,042	3/4	76,921	3/4	91,879	3/4	106,839	3/4	121,785	3/4	136,730
2	3,132	2	18,108	2	33,077	2	47,735	2	62,353	2	77,231	2	92,191	2	107,151	2	122,097	2	137,042
1/4	3,444	1/4	18,420	1/4	33,389	1/4	48,037	1/4	62,664	1/4	77,542	1/4	92,502	1/4	107,462	1/4	122,408	1/4	137,353
1/2	3,755	1/2	18,732	1/2	33,701	1/2	48,339	1/2	62,975	1/2	77,852	1/2	92,814	1/2	107,774	1/2	122,719	1/2	137,665
3/4	4,066	3/4	19,044	3/4	34,013	3/4	48,641	3/4	63,286	3/4	78,163	3/4	93,125	3/4	108,085	3/4	123,031	3/4	137,976
3	4,378	3	19,356	3	34,325	3	48,943	3	63,596	3	78,474	3	93,437	3	108,397	3	123,342	3	138,287
1/4	4,690	1/4	19,668	1/4	34,636	1/4	49,245	1/4	63,906	1/4	78,786	1/4	93,748	1/4	108,708	1/4	123,653	1/4	138,599
1/2	5,002	1/2	19,980	1/2	34,948	1/2	49,547	1/2	64,216	1/2	79,098	1/2	94,060	1/2	109,019	1/2	123,965	1/2	138,910
3/4	5,314	3/4	20,291	3/4	35,259	3/4	49,849	3/4	64,526	3/4	79,410	3/4	94,371	3/4	109,331	3/4	124,276	3/4	139,221
4	5,626	4	20,603	4	35,570	4	50,151	4	64,836	4	79,722	4	94,683	4	109,642	4	124,587	4	139,533
1/4	5,938	1/4	20,915	1/4	35,878	1/4	50,453	1/4	65,146	1/4	80,033	1/4	94,994	1/4	109,954	1/4	124,899	1/4	139,844
1/2	6,250	1/2	21,227	1/2	36,186	1/2	50,755	1/2	65,455	1/2	80,345	1/2	95,306	1/2	110,265	1/2	125,210	1/2	140,155
3/4	6,562	3/4	21,539	3/4	36,494	3/4	51,057	3/4	65,765	3/4	80,657	3/4	95,617	3/4	110,576	3/4	125,522	3/4	140,467
5	6,874	5	21,851	5	36,801	5	51,359	5	66,075	5	80,969	5	95,929	5	110,888	5	125,833	5	140,778
1/4	7,186	1/4	22,163	1/4	37,106	1/4	51,661	1/4	66,385	1/4	81,281	1/4	96,240	1/4	111,199	1/4	126,144	1/4	141,089
1/2	7,499	1/2	22,475	1/2	37,411	1/2	51,963	1/2	66,695	1/2	81,593	1/2	96,552	1/2	111,510	1/2	126,456	1/2	141,400
3/4	7,811	3/4	22,787	3/4	37,715	3/4	52,266	3/4	67,005	3/4	81,904	3/4	96,863	3/4	111,822	3/4	126,767	3/4	141,711
6	8,123	6	23,099	6	38,020	6	52,568	6	67,315	6	82,216	6	97,175	6	112,133	6	127,078	6	142,022
1/4	8,435	1/4	23,410	1/4	38,324	1/4	52,870	1/4	67,625	1/4	82,528	1/4	97,487	1/4	112,444	1/4	127,390	1/4	142,329
1/2	8,747	1/2	23,722	1/2	38,629	1/2	53,172	1/2	67,934	1/2	82,840	1/2	97,798	1/2	112,756	1/2	127,701	1/2	142,635
3/4	9,060	3/4	24,034	3/4	38,933	3/4	53,474	3/4	68,244	3/4	83,152	3/4	98,110	3/4	113,067	3/4	128,012	3/4	142,942
7	9,372	7	24,346	7	39,238	7	53,776	7	68,554	7	83,464	7	98,422	7	113,379	7	128,324	7	143,249
1/4	9,684	1/4	24,658	1/4	39,543	1/4	54,078	1/4	68,864	1/4	83,775	1/4	98,733	1/4	113,690	1/4	128,635	1/4	143,543
1/2	9,997	1/2	24,970	1/2	39,847	1/2	54,380	1/2	69,174	1/2	84,087	1/2	99,045	1/2	114,001	1/2	128,946	1/2	143,837
3/4	10,309	3/4	25,282	3/4	40,152	3/4	54,682	3/4	69,484	3/4	84,399	3/4	99,357	3/4	114,313	3/4	129,258	3/4	144,131
8	10,622	8	25,594	8	40,456	8	54,984	8	69,794	8	84,711	8	99,669	8	114,624	8	129,569	8	144,426
1/4	10,934	1/4	25,906	1/4	40,761	1/4	55,286	1/4	70,104	1/4	85,023	1/4	99,980	1/4	114,935	1/4	129,881	1/4	144,704
1/2	11,246	1/2	26,217	1/2	41,066	1/2	55,588	1/2	70,413	1/2	85,335	1/2	100,292	1/2	115,247	1/2	130,192	1/2	144,982
3/4	11,558	3/4	26,529	3/4	41,370	3/4	55,890	3/4	70,723	3/4	85,646	3/4	100,604	3/4	115,558	3/4	130,503	3/4	145,260
9	11,870	9	26,841	9	41,675	9	56,192	9	71,033	9	85,958	9	100,916	9	115,869	9	130,815	9	145,539
1/4	12,182	1/4	27,153	1/4	41,979	1/4	56,496	1/4	71,343	1/4	86,270	1/4	101,228	1/4	116,181	1/4	131,126	1/4	145,801
1/2	12,494	1/2	27,465	1/2	42,284	1/2	56,799	1/2	71,653	1/2	86,582	1/2	101,539	1/2	116,492	1/2	131,437	1/2	146,064
3/4	12,806	3/4	27,776	3/4	42,588	3/4	57,103	3/4	71,963	3/4	86,894	3/4	101,851	3/4	116,803	3/4	131,749	3/4	146,326
10	13,118	10	28,088	10	42,893	10	57,407	10	72,273	10	87,206	10	102,163	10	117,115	10	132,060	10	146,589
1/4	13,430	1/4	28,400	1/4	43,198	1/4	57,712	1/4	72,583	1/4	87,517	1/4	102,475	1/4	117,426	1/4	132,371	1/4	146,836
1/2	13,741	1/2	28,711	1/2	43,502	1/2	58,017	1/2	72,892	1/2	87,829	1/2	102,786	1/2	117,738	1/2	132,683	1/2	147,083
3/4	14,053	3/4	29,023	3/4	43,807	3/4	58,322	3/4	73,202	3/4	88,141	3/4	103,098	3/4	118,049	3/4	132,994	3/4	147,330
11	14,365	11	29,335	11	44,111	11	58,628	11	73,512	11	88,452	11	103,410	11	118,360	11	133,305	11	147,576
1/4	14,677	1/4	29,647	1/4	44,414	1/4	58,936	1/4	73,822	1/4	88,764	1/4	103,722	1/4	118,672	1/4	133,617	1/4	147,807
1/2	14,989	1/2	29,959	1/2	44,717	1/2	59,244	1/2	74,132	1/2	89,075	1/2	104,034	1/2	118,983	1/2	133,928	1/2	148,038
3/4	15,301	3/4	30,270	3/4	45,020	3/4	59,553	3/4	74,442	3/4	89,387	3/4	104,345	3/4	119,294	3/4	134,240	3/4	148,269

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 433"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,500	0	158,868	0	169,215	0	179,533	0	189,836	0		0		0		0		0	
1/4	148,719	1/4	159,084	1/4	169,430	1/4	179,748	1/4	190,029	1/4		1/4		1/4		1/4		1/4	
1/2	148,938	1/2	159,299	1/2	169,645	1/2	179,963	1/2	190,222	1/2		1/2		1/2		1/2		1/2	
3/4	149,157	3/4	159,515	3/4	169,860	3/4	180,178	3/4	190,415	3/4		3/4		3/4		3/4		3/4	
1	149,376	1	159,731	1	170,075	1	180,393	1	190,607	1		1		1		1		1	
1/4	149,592	1/4	159,947	1/4	170,290	1/4	180,607	1/4	190,767	1/4		1/4		1/4		1/4		1/4	
1/2	149,808	1/2	160,162	1/2	170,504	1/2	180,822	1/2	190,926	1/2		1/2		1/2		1/2		1/2	
3/4	150,024	3/4	160,378	3/4	170,719	3/4	181,037	3/4	191,086	3/4		3/4		3/4		3/4		3/4	
2	150,239	2	160,594	2	170,934	2	181,252	2	191,245	2		2		2		2		2	
1/4	150,455	1/4	160,809	1/4	171,149	1/4	181,467	1/4	191,369	1/4		1/4		1/4		1/4		1/4	
1/2	150,671	1/2	161,025	1/2	171,364	1/2	181,682	1/2	191,492	1/2		1/2		1/2		1/2		1/2	
3/4	150,886	3/4	161,241	3/4	171,579	3/4	181,897	3/4	191,616	3/4		3/4		3/4		3/4		3/4	
3	151,102	3	161,457	3	171,794	3	182,112	3	191,739	3		3		3		3		3	
1/4	151,318	1/4	161,672	1/4	172,009	1/4	182,327	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,534	1/2	161,888	1/2	172,224	1/2	182,542	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,749	3/4	162,104	3/4	172,439	3/4	182,757	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,965	4	162,319	4	172,654	4	182,972	4		4		4		4		4		4	
1/4	152,181	1/4	162,535	1/4	172,869	1/4	183,187	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,396	1/2	162,751	1/2	173,084	1/2	183,402	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,612	3/4	162,967	3/4	173,299	3/4	183,617	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,828	5	163,182	5	173,514	5	183,832	5		5		5		5		5		5	
1/4	153,044	1/4	163,398	1/4	173,729	1/4	184,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,259	1/2	163,614	1/2	173,944	1/2	184,262	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,475	3/4	163,829	3/4	174,159	3/4	184,477	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,691	6	164,045	6	174,374	6	184,692	6		6		6		6		6		6	
1/4	153,907	1/4	164,261	1/4	174,589	1/4	184,907	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,122	1/2	164,477	1/2	174,804	1/2	185,122	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,338	3/4	164,692	3/4	175,019	3/4	185,337	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,554	7	164,908	7	175,234	7	185,551	7		7		7		7		7		7	
1/4	154,769	1/4	165,124	1/4	175,448	1/4	185,766	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,985	1/2	165,339	1/2	175,663	1/2	185,981	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,201	3/4	165,555	3/4	175,878	3/4	186,197	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,417	8	165,771	8	176,093	8	186,412	8		8		8		8		8		8	
1/4	155,632	1/4	165,987	1/4	176,308	1/4	186,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,848	1/2	166,202	1/2	176,523	1/2	186,842	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,064	3/4	166,418	3/4	176,738	3/4	187,057	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,279	9	166,634	9	176,953	9	187,272	9		9		9		9		9		9	
1/4	156,495	1/4	166,849	1/4	177,168	1/4	187,487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,711	1/2	167,064	1/2	177,383	1/2	187,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,927	3/4	167,280	3/4	177,598	3/4	187,917	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,142	10	167,495	10	177,813	10	188,132	10		10		10		10		10		10	
1/4	157,358	1/4	167,710	1/4	178,028	1/4	188,347	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,574	1/2	167,925	1/2	178,243	1/2	188,561	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,789	3/4	168,140	3/4	178,458	3/4	188,776	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,005	11	168,355	11	178,673	11	188,991	11		11		11		11		11		11	
1/4	158,221	1/4	168,570	1/4	178,888	1/4	189,202	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,437	1/2	168,785	1/2	179,103	1/2	189,413	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,652	3/4	169,000	3/4	179,318	3/4	189,625	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2015 CL
CALCULATED: 10/21/2015 CL
PRINTED: 10/21/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 433"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/2"

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	1,032	0	15,693	0	30,753	0	45,795	0	60,843	0	75,905	0	90,968	0	106,030	0	121,087	0	136,142
1/4	1,267	1/4	16,007	1/4	31,067	1/4	46,108	1/4	61,157	1/4	76,219	1/4	91,281	1/4	106,344	1/4	121,401	1/4	136,455
1/2	1,502	1/2	16,321	1/2	31,381	1/2	46,421	1/2	61,470	1/2	76,533	1/2	91,595	1/2	106,658	1/2	121,714	1/2	136,769
3/4	1,737	3/4	16,635	3/4	31,695	3/4	46,734	3/4	61,784	3/4	76,847	3/4	91,909	3/4	106,971	3/4	122,028	3/4	137,083
1	1,973	1	16,948	1	32,009	1	47,047	1	62,098	1	77,160	1	92,223	1	107,285	1	122,342	1	137,396
1/4	2,266	1/4	17,262	1/4	32,322	1/4	47,360	1/4	62,412	1/4	77,474	1/4	92,537	1/4	107,599	1/4	122,655	1/4	137,710
1/2	2,560	1/2	17,576	1/2	32,636	1/2	47,672	1/2	62,726	1/2	77,788	1/2	92,850	1/2	107,913	1/2	122,969	1/2	138,024
3/4	2,853	3/4	17,890	3/4	32,950	3/4	47,985	3/4	63,039	3/4	78,102	3/4	93,164	3/4	108,227	3/4	123,282	3/4	138,337
2	3,146	2	18,204	2	33,264	2	48,298	2	63,353	2	78,416	2	93,478	2	108,540	2	123,596	2	138,651
1/4	3,459	1/4	18,517	1/4	33,578	1/4	48,611	1/4	63,667	1/4	78,729	1/4	93,792	1/4	108,854	1/4	123,910	1/4	138,965
1/2	3,772	1/2	18,831	1/2	33,891	1/2	48,924	1/2	63,981	1/2	79,043	1/2	94,106	1/2	109,168	1/2	124,223	1/2	139,278
3/4	4,085	3/4	19,145	3/4	34,205	3/4	49,237	3/4	64,295	3/4	79,357	3/4	94,419	3/4	109,482	3/4	124,537	3/4	139,592
3	4,398	3	19,459	3	34,519	3	49,550	3	64,608	3	79,671	3	94,733	3	109,796	3	124,851	3	139,905
1/4	4,711	1/4	19,773	1/4	34,833	1/4	49,863	1/4	64,922	1/4	79,985	1/4	95,047	1/4	110,109	1/4	125,164	1/4	140,219
1/2	5,025	1/2	20,086	1/2	35,147	1/2	50,176	1/2	65,236	1/2	80,298	1/2	95,361	1/2	110,423	1/2	125,478	1/2	140,533
3/4	5,338	3/4	20,400	3/4	35,460	3/4	50,489	3/4	65,550	3/4	80,612	3/4	95,675	3/4	110,737	3/4	125,792	3/4	140,846
4	5,652	4	20,714	4	35,774	4	50,803	4	65,864	4	80,926	4	95,988	4	111,050	4	126,105	4	141,160
1/4	5,966	1/4	21,028	1/4	36,088	1/4	51,116	1/4	66,177	1/4	81,240	1/4	96,302	1/4	111,364	1/4	126,419	1/4	141,474
1/2	6,279	1/2	21,342	1/2	36,402	1/2	51,429	1/2	66,491	1/2	81,554	1/2	96,616	1/2	111,678	1/2	126,733	1/2	141,787
3/4	6,593	3/4	21,655	3/4	36,716	3/4	51,743	3/4	66,805	3/4	81,867	3/4	96,930	3/4	111,991	3/4	127,046	3/4	142,101
5	6,907	5	21,969	5	37,029	5	52,056	5	67,119	5	82,181	5	97,244	5	112,305	5	127,360	5	142,415
1/4	7,221	1/4	22,283	1/4	37,343	1/4	52,370	1/4	67,433	1/4	82,495	1/4	97,557	1/4	112,619	1/4	127,673	1/4	142,728
1/2	7,535	1/2	22,597	1/2	37,657	1/2	52,684	1/2	67,746	1/2	82,809	1/2	97,871	1/2	112,932	1/2	127,987	1/2	143,042
3/4	7,848	3/4	22,911	3/4	37,971	3/4	52,998	3/4	68,060	3/4	83,123	3/4	98,185	3/4	113,246	3/4	128,301	3/4	143,356
6	8,162	6	23,224	6	38,285	6	53,312	6	68,374	6	83,436	6	98,499	6	113,560	6	128,614	6	143,669
1/4	8,476	1/4	23,538	1/4	38,598	1/4	53,625	1/4	68,688	1/4	83,750	1/4	98,813	1/4	113,873	1/4	128,928	1/4	143,983
1/2	8,790	1/2	23,852	1/2	38,911	1/2	53,939	1/2	69,002	1/2	84,064	1/2	99,126	1/2	114,187	1/2	129,242	1/2	144,296
3/4	9,104	3/4	24,166	3/4	39,225	3/4	54,253	3/4	69,315	3/4	84,378	3/4	99,440	3/4	114,500	3/4	129,555	3/4	144,610
7	9,417	7	24,480	7	39,538	7	54,567	7	69,629	7	84,692	7	99,754	7	114,814	7	129,869	7	144,924
1/4	9,731	1/4	24,793	1/4	39,851	1/4	54,881	1/4	69,943	1/4	85,005	1/4	100,068	1/4	115,128	1/4	130,183	1/4	145,237
1/2	10,045	1/2	25,107	1/2	40,164	1/2	55,194	1/2	70,257	1/2	85,319	1/2	100,382	1/2	115,441	1/2	130,496	1/2	145,551
3/4	10,359	3/4	25,421	3/4	40,476	3/4	55,508	3/4	70,571	3/4	85,633	3/4	100,695	3/4	115,755	3/4	130,810	3/4	145,865
8	10,673	8	25,735	8	40,789	8	55,822	8	70,884	8	85,947	8	101,009	8	116,069	8	131,124	8	146,178
1/4	10,986	1/4	26,049	1/4	41,102	1/4	56,136	1/4	71,198	1/4	86,261	1/4	101,323	1/4	116,382	1/4	131,437	1/4	146,492
1/2	11,300	1/2	26,362	1/2	41,415	1/2	56,450	1/2	71,512	1/2	86,574	1/2	101,637	1/2	116,696	1/2	131,751	1/2	146,806
3/4	11,614	3/4	26,676	3/4	41,728	3/4	56,763	3/4	71,826	3/4	86,888	3/4	101,951	3/4	117,010	3/4	132,064	3/4	147,119
9	11,928	9	26,990	9	42,041	9	57,077	9	72,140	9	87,202	9	102,264	9	117,323	9	132,378	9	147,433
1/4	12,241	1/4	27,303	1/4	42,354	1/4	57,391	1/4	72,453	1/4	87,516	1/4	102,578	1/4	117,637	1/4	132,692	1/4	147,747
1/2	12,555	1/2	27,617	1/2	42,667	1/2	57,705	1/2	72,767	1/2	87,830	1/2	102,892	1/2	117,951	1/2	133,005	1/2	148,060
3/4	12,869	3/4	27,931	3/4	42,979	3/4	58,019	3/4	73,081	3/4	88,143	3/4	103,206	3/4	118,264	3/4	133,319	3/4	148,374
10	13,183	10	28,244	10	43,292	10	58,332	10	73,395	10	88,457	10	103,520	10	118,578	10	133,633	10	148,687
1/4	13,497	1/4	28,558	1/4	43,605	1/4	58,646	1/4	73,709	1/4	88,771	1/4	103,833	1/4	118,891	1/4	133,946	1/4	149,001
1/2	13,810	1/2	28,871	1/2	43,918	1/2	58,960	1/2	74,022	1/2	89,085	1/2	104,147	1/2	119,205	1/2	134,260	1/2	149,315
3/4	14,124	3/4	29,185	3/4	44,231	3/4	59,274	3/4	74,336	3/4	89,399	3/4	104,461	3/4	119,519	3/4	134,574	3/4	149,628
11	14,438	11	29,498	11	44,544	11	59,588	11	74,650	11	89,712	11	104,775	11	119,832	11	134,887	11	149,942
1/4	14,752	1/4	29,812	1/4	44,857	1/4	59,901	1/4	74,964	1/4	90,026	1/4	105,089	1/4	120,146	1/4	135,201	1/4	150,256
1/2	15,066	1/2	30,126	1/2	45,170	1/2	60,215	1/2	75,278	1/2	90,340	1/2	105,402	1/2	120,460	1/2	135,514	1/2	150,569
3/4	15,379	3/4	30,440	3/4	45,482	3/4	60,529	3/4	75,591	3/4	90,654	3/4	105,716	3/4	120,773	3/4	135,828	3/4	150,883

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "HFL 433"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	151,197	0	166,251	0	181,296	0	196,299	0	211,206	0		0		0		0		0	
1/4	151,510	1/4	166,565	1/4	181,608	1/4	196,612	1/4	211,486	1/4		1/4		1/4		1/4		1/4	
1/2	151,824	1/2	166,879	1/2	181,921	1/2	196,925	1/2	211,766	1/2		1/2		1/2		1/2		1/2	
3/4	152,138	3/4	167,192	3/4	182,233	3/4	197,237	3/4	212,045	3/4		3/4		3/4		3/4		3/4	
1	152,451	1	167,506	1	182,546	1	197,550	1	212,325	1		1		1		1		1	
1/4	152,765	1/4	167,820	1/4	182,859	1/4	197,862	1/4	212,556	1/4		1/4		1/4		1/4		1/4	
1/2	153,078	1/2	168,133	1/2	183,171	1/2	198,175	1/2	212,788	1/2		1/2		1/2		1/2		1/2	
3/4	153,392	3/4	168,447	3/4	183,484	3/4	198,487	3/4	213,019	3/4		3/4		3/4		3/4		3/4	
2	153,706	2	168,761	2	183,796	2	198,800	2	213,250	2		2		2		2		2	
1/4	154,019	1/4	169,074	1/4	184,109	1/4	199,113	1/4	213,429	1/4		1/4		1/4		1/4		1/4	
1/2	154,333	1/2	169,388	1/2	184,421	1/2	199,425	1/2	213,608	1/2		1/2		1/2		1/2		1/2	
3/4	154,647	3/4	169,702	3/4	184,734	3/4	199,738	3/4	213,787	3/4		3/4		3/4		3/4		3/4	
3	154,960	3	170,015	3	185,047	3	200,050	3	213,966	3		3		3		3		3	
1/4	155,274	1/4	170,329	1/4	185,359	1/4	200,363	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,588	1/2	170,642	1/2	185,672	1/2	200,676	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,901	3/4	170,956	3/4	185,984	3/4	200,988	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,215	4	171,270	4	186,297	4	201,301	4		4		4		4		4		4	
1/4	156,529	1/4	171,583	1/4	186,609	1/4	201,613	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,842	1/2	171,897	1/2	186,922	1/2	201,926	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,156	3/4	172,211	3/4	187,235	3/4	202,238	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,469	5	172,524	5	187,547	5	202,551	5		5		5		5		5		5	
1/4	157,783	1/4	172,838	1/4	187,860	1/4	202,862	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,097	1/2	173,152	1/2	188,172	1/2	203,173	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,410	3/4	173,465	3/4	188,485	3/4	203,484	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,724	6	173,779	6	188,798	6	203,795	6		6		6		6		6		6	
1/4	159,038	1/4	174,093	1/4	189,110	1/4	204,105	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,351	1/2	174,406	1/2	189,423	1/2	204,414	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,665	3/4	174,720	3/4	189,735	3/4	204,724	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,979	7	175,033	7	190,048	7	205,033	7		7		7		7		7		7	
1/4	160,292	1/4	175,347	1/4	190,360	1/4	205,343	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,606	1/2	175,661	1/2	190,673	1/2	205,652	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,920	3/4	175,974	3/4	190,986	3/4	205,962	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,233	8	176,288	8	191,298	8	206,271	8		8		8		8		8		8	
1/4	161,547	1/4	176,602	1/4	191,611	1/4	206,581	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,860	1/2	176,915	1/2	191,923	1/2	206,891	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,174	3/4	177,229	3/4	192,236	3/4	207,200	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,488	9	177,543	9	192,548	9	207,510	9		9		9		9		9		9	
1/4	162,801	1/4	177,856	1/4	192,861	1/4	207,819	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,115	1/2	178,169	1/2	193,174	1/2	208,129	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,429	3/4	178,482	3/4	193,486	3/4	208,439	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,742	10	178,795	10	193,799	10	208,748	10		10		10		10		10		10	
1/4	164,056	1/4	179,108	1/4	194,111	1/4	209,057	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,370	1/2	179,420	1/2	194,424	1/2	209,366	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,683	3/4	179,733	3/4	194,737	3/4	209,675	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,997	11	180,045	11	195,049	11	209,985	11		11		11		11		11		11	
1/4	165,311	1/4	180,358	1/4	195,362	1/4	210,290	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,624	1/2	180,670	1/2	195,674	1/2	210,595	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,938	3/4	180,983	3/4	195,987	3/4	210,901	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2015 CL
CALCULATED: 10/21/2015 CL
PRINTED: 10/21/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 433"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	1,031	0	15,693	0	30,752	0	45,441	0	59,924	0	74,774	0	89,837	0	104,899	0	119,956	0	135,011
1/4	1,267	1/4	16,006	1/4	31,066	1/4	45,742	1/4	60,226	1/4	75,088	1/4	90,150	1/4	105,213	1/4	120,270	1/4	135,325
1/2	1,502	1/2	16,320	1/2	31,380	1/2	46,043	1/2	60,528	1/2	75,402	1/2	90,464	1/2	105,527	1/2	120,583	1/2	135,638
3/4	1,737	3/4	16,634	3/4	31,694	3/4	46,344	3/4	60,830	3/4	75,716	3/4	90,778	3/4	105,840	3/4	120,897	3/4	135,952
1	1,973	1	16,948	1	32,007	1	46,645	1	61,132	1	76,029	1	91,092	1	106,154	1	121,211	1	136,265
1/4	2,266	1/4	17,262	1/4	32,321	1/4	46,946	1/4	61,434	1/4	76,343	1/4	91,406	1/4	106,468	1/4	121,524	1/4	136,579
1/2	2,559	1/2	17,575	1/2	32,635	1/2	47,248	1/2	61,736	1/2	76,657	1/2	91,719	1/2	106,782	1/2	121,838	1/2	136,893
3/4	2,853	3/4	17,889	3/4	32,949	3/4	47,549	3/4	62,038	3/4	76,971	3/4	92,033	3/4	107,096	3/4	122,152	3/4	137,206
2	3,146	2	18,203	2	33,263	2	47,850	2	62,340	2	77,285	2	92,347	2	107,409	2	122,465	2	137,520
1/4	3,459	1/4	18,517	1/4	33,576	1/4	48,151	1/4	62,642	1/4	77,598	1/4	92,661	1/4	107,723	1/4	122,779	1/4	137,834
1/2	3,772	1/2	18,831	1/2	33,890	1/2	48,452	1/2	62,944	1/2	77,912	1/2	92,975	1/2	108,037	1/2	123,093	1/2	138,147
3/4	4,085	3/4	19,144	3/4	34,204	3/4	48,753	3/4	63,246	3/4	78,226	3/4	93,288	3/4	108,351	3/4	123,406	3/4	138,461
3	4,397	3	19,458	3	34,518	3	49,055	3	63,548	3	78,540	3	93,602	3	108,665	3	123,720	3	138,775
1/4	4,711	1/4	19,772	1/4	34,832	1/4	49,356	1/4	63,850	1/4	78,854	1/4	93,916	1/4	108,978	1/4	124,033	1/4	139,088
1/2	5,024	1/2	20,086	1/2	35,145	1/2	49,657	1/2	64,152	1/2	79,167	1/2	94,230	1/2	109,292	1/2	124,347	1/2	139,402
3/4	5,338	3/4	20,400	3/4	35,459	3/4	49,959	3/4	64,454	3/4	79,481	3/4	94,544	3/4	109,606	3/4	124,661	3/4	139,716
4	5,652	4	20,713	4	35,773	4	50,260	4	64,756	4	79,795	4	94,857	4	109,920	4	124,974	4	140,029
1/4	5,965	1/4	21,027	1/4	36,081	1/4	50,562	1/4	65,064	1/4	80,109	1/4	95,171	1/4	110,233	1/4	125,288	1/4	140,343
1/2	6,279	1/2	21,341	1/2	36,389	1/2	50,863	1/2	65,372	1/2	80,423	1/2	95,485	1/2	110,547	1/2	125,602	1/2	140,656
3/4	6,593	3/4	21,655	3/4	36,697	3/4	51,165	3/4	65,680	3/4	80,736	3/4	95,799	3/4	110,860	3/4	125,915	3/4	140,970
5	6,907	5	21,969	5	37,005	5	51,467	5	65,988	5	81,050	5	96,113	5	111,174	5	126,229	5	141,284
1/4	7,220	1/4	22,282	1/4	37,307	1/4	51,769	1/4	66,302	1/4	81,364	1/4	96,426	1/4	111,488	1/4	126,543	1/4	141,597
1/2	7,534	1/2	22,596	1/2	37,609	1/2	52,071	1/2	66,615	1/2	81,678	1/2	96,740	1/2	111,801	1/2	126,856	1/2	141,911
3/4	7,848	3/4	22,910	3/4	37,911	3/4	52,373	3/4	66,929	3/4	81,992	3/4	97,054	3/4	112,115	3/4	127,170	3/4	142,225
6	8,162	6	23,224	6	38,213	6	52,675	6	67,243	6	82,305	6	97,368	6	112,429	6	127,484	6	142,538
1/4	8,476	1/4	23,537	1/4	38,514	1/4	52,977	1/4	67,557	1/4	82,619	1/4	97,682	1/4	112,742	1/4	127,797	1/4	142,852
1/2	8,789	1/2	23,851	1/2	38,816	1/2	53,279	1/2	67,871	1/2	82,933	1/2	97,995	1/2	113,056	1/2	128,111	1/2	143,166
3/4	9,103	3/4	24,165	3/4	39,117	3/4	53,581	3/4	68,184	3/4	83,247	3/4	98,309	3/4	113,370	3/4	128,424	3/4	143,479
7	9,417	7	24,479	7	39,419	7	53,883	7	68,498	7	83,561	7	98,623	7	113,683	7	128,738	7	143,793
1/4	9,731	1/4	24,793	1/4	39,720	1/4	54,185	1/4	68,812	1/4	83,874	1/4	98,937	1/4	113,997	1/4	129,052	1/4	144,107
1/2	10,044	1/2	25,106	1/2	40,021	1/2	54,487	1/2	69,126	1/2	84,188	1/2	99,251	1/2	114,311	1/2	129,365	1/2	144,420
3/4	10,358	3/4	25,420	3/4	40,322	3/4	54,789	3/4	69,440	3/4	84,502	3/4	99,564	3/4	114,624	3/4	129,679	3/4	144,734
8	10,672	8	25,734	8	40,623	8	55,091	8	69,753	8	84,816	8	99,878	8	114,938	8	129,993	8	145,047
1/4	10,986	1/4	26,048	1/4	40,924	1/4	55,393	1/4	70,067	1/4	85,130	1/4	100,192	1/4	115,251	1/4	130,306	1/4	145,361
1/2	11,300	1/2	26,361	1/2	41,226	1/2	55,695	1/2	70,381	1/2	85,443	1/2	100,506	1/2	115,565	1/2	130,620	1/2	145,675
3/4	11,613	3/4	26,675	3/4	41,527	3/4	55,997	3/4	70,695	3/4	85,757	3/4	100,820	3/4	115,879	3/4	130,934	3/4	145,988
9	11,927	9	26,989	9	41,828	9	56,299	9	71,009	9	86,071	9	101,133	9	116,192	9	131,247	9	146,302
1/4	12,241	1/4	27,302	1/4	42,129	1/4	56,601	1/4	71,322	1/4	86,385	1/4	101,447	1/4	116,506	1/4	131,561	1/4	146,616
1/2	12,555	1/2	27,616	1/2	42,430	1/2	56,903	1/2	71,636	1/2	86,699	1/2	101,761	1/2	116,820	1/2	131,875	1/2	146,929
3/4	12,869	3/4	27,930	3/4	42,731	3/4	57,205	3/4	71,950	3/4	87,012	3/4	102,075	3/4	117,133	3/4	132,188	3/4	147,243
10	13,182	10	28,243	10	43,032	10	57,507	10	72,264	10	87,326	10	102,389	10	117,447	10	132,502	10	147,557
1/4	13,496	1/4	28,557	1/4	43,333	1/4	57,809	1/4	72,578	1/4	87,640	1/4	102,702	1/4	117,761	1/4	132,815	1/4	147,870
1/2	13,810	1/2	28,870	1/2	43,634	1/2	58,111	1/2	72,891	1/2	87,954	1/2	103,016	1/2	118,074	1/2	133,129	1/2	148,184
3/4	14,124	3/4	29,184	3/4	43,935	3/4	58,413	3/4	73,205	3/4	88,268	3/4	103,330	3/4	118,388	3/4	133,443	3/4	148,498
11	14,438	11	29,497	11	44,237	11	58,715	11	73,519	11	88,581	11	103,644	11	118,702	11	133,756	11	148,811
1/4	14,751	1/4	29,811	1/4	44,538	1/4	59,018	1/4	73,833	1/4	88,895	1/4	103,958	1/4	119,015	1/4	134,070	1/4	149,125
1/2	15,065	1/2	30,125	1/2	44,839	1/2	59,320	1/2	74,147	1/2	89,209	1/2	104,271	1/2	119,329	1/2	134,384	1/2	149,438
3/4	15,379	3/4	30,439	3/4	45,140	3/4	59,622	3/4	74,460	3/4	89,523	3/4	104,585	3/4	119,642	3/4	134,697	3/4	149,752

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 433"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,066	0	165,121	0	180,165	0	195,169	0	210,075	0		0		0		0		0	
1/4	150,379	1/4	165,434	1/4	180,477	1/4	195,481	1/4	210,355	1/4		1/4		1/4		1/4		1/4	
1/2	150,693	1/2	165,748	1/2	180,790	1/2	195,794	1/2	210,635	1/2		1/2		1/2		1/2		1/2	
3/4	151,007	3/4	166,062	3/4	181,103	3/4	196,106	3/4	210,915	3/4		3/4		3/4		3/4		3/4	
1	151,320	1	166,375	1	181,415	1	196,419	1	211,194	1		1		1		1		1	
1/4	151,634	1/4	166,689	1/4	181,728	1/4	196,731	1/4	211,425	1/4		1/4		1/4		1/4		1/4	
1/2	151,948	1/2	167,002	1/2	182,040	1/2	197,044	1/2	211,657	1/2		1/2		1/2		1/2		1/2	
3/4	152,261	3/4	167,316	3/4	182,353	3/4	197,357	3/4	211,888	3/4		3/4		3/4		3/4		3/4	
2	152,575	2	167,630	2	182,665	2	197,669	2	212,119	2		2		2		2		2	
1/4	152,889	1/4	167,943	1/4	182,978	1/4	197,982	1/4	212,298	1/4		1/4		1/4		1/4		1/4	
1/2	153,202	1/2	168,257	1/2	183,291	1/2	198,294	1/2	212,477	1/2		1/2		1/2		1/2		1/2	
3/4	153,516	3/4	168,571	3/4	183,603	3/4	198,607	3/4	212,656	3/4		3/4		3/4		3/4		3/4	
3	153,829	3	168,884	3	183,916	3	198,919	3	212,835	3		3		3		3		3	
1/4	154,143	1/4	169,198	1/4	184,228	1/4	199,232	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,457	1/2	169,512	1/2	184,541	1/2	199,545	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,770	3/4	169,825	3/4	184,853	3/4	199,857	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,084	4	170,139	4	185,166	4	200,170	4		4		4		4		4		4	
1/4	155,398	1/4	170,453	1/4	185,479	1/4	200,482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,711	1/2	170,766	1/2	185,791	1/2	200,795	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,025	3/4	171,080	3/4	186,104	3/4	201,108	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,339	5	171,393	5	186,416	5	201,420	5		5		5		5		5		5	
1/4	156,652	1/4	171,707	1/4	186,729	1/4	201,731	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,966	1/2	172,021	1/2	187,042	1/2	202,042	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,280	3/4	172,334	3/4	187,354	3/4	202,353	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,593	6	172,648	6	187,667	6	202,664	6		6		6		6		6		6	
1/4	157,907	1/4	172,962	1/4	187,979	1/4	202,974	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,220	1/2	173,275	1/2	188,292	1/2	203,283	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,534	3/4	173,589	3/4	188,604	3/4	203,593	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,848	7	173,903	7	188,917	7	203,902	7		7		7		7		7		7	
1/4	159,161	1/4	174,216	1/4	189,230	1/4	204,212	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,475	1/2	174,530	1/2	189,542	1/2	204,521	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,789	3/4	174,843	3/4	189,855	3/4	204,831	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,102	8	175,157	8	190,167	8	205,140	8		8		8		8		8		8	
1/4	160,416	1/4	175,471	1/4	190,480	1/4	205,450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,730	1/2	175,784	1/2	190,792	1/2	205,760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,043	3/4	176,098	3/4	191,105	3/4	206,069	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,357	9	176,412	9	191,418	9	206,379	9		9		9		9		9		9	
1/4	161,671	1/4	176,725	1/4	191,730	1/4	206,688	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,984	1/2	177,038	1/2	192,043	1/2	206,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,298	3/4	177,351	3/4	192,355	3/4	207,308	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,611	10	177,664	10	192,668	10	207,617	10		10		10		10		10		10	
1/4	162,925	1/4	177,977	1/4	192,980	1/4	207,926	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,239	1/2	178,289	1/2	193,293	1/2	208,235	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,552	3/4	178,602	3/4	193,606	3/4	208,544	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,866	11	178,914	11	193,918	11	208,854	11		11		11		11		11		11	
1/4	164,180	1/4	179,227	1/4	194,231	1/4	209,159	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,493	1/2	179,540	1/2	194,543	1/2	209,465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,807	3/4	179,852	3/4	194,856	3/4	209,770	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2015 CL
CALCULATED: 10/21/2015 CL
PRINTED: 10/21/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 433"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

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	385	0	13,252	0	28,179	0	43,203	0	58,222	0	73,243	0	88,267	0	103,290	0	118,310	0	133,327
1/4	562	1/4	13,554	1/4	28,492	1/4	43,516	1/4	58,534	1/4	73,556	1/4	88,580	1/4	103,603	1/4	118,622	1/4	133,640
1/2	739	1/2	13,855	1/2	28,805	1/2	43,829	1/2	58,847	1/2	73,869	1/2	88,893	1/2	103,916	1/2	118,935	1/2	133,953
3/4	916	3/4	14,157	3/4	29,118	3/4	44,142	3/4	59,160	3/4	74,182	3/4	89,206	3/4	104,229	3/4	119,248	3/4	134,265
1	1,093	1	14,458	1	29,431	1	44,455	1	59,473	1	74,495	1	89,519	1	104,542	1	119,561	1	134,578
1/4	1,332	1/4	14,763	1/4	29,744	1/4	44,768	1/4	59,785	1/4	74,808	1/4	89,832	1/4	104,855	1/4	119,874	1/4	134,891
1/2	1,570	1/2	15,069	1/2	30,057	1/2	45,081	1/2	60,098	1/2	75,121	1/2	90,145	1/2	105,168	1/2	120,187	1/2	135,204
3/4	1,809	3/4	15,374	3/4	30,370	3/4	45,394	3/4	60,411	3/4	75,434	3/4	90,458	3/4	105,481	3/4	120,500	3/4	135,517
2	2,048	2	15,679	2	30,683	2	45,707	2	60,724	2	75,747	2	90,770	2	105,794	2	120,812	2	135,830
1/4	2,310	1/4	15,988	1/4	30,996	1/4	46,020	1/4	61,037	1/4	76,060	1/4	91,083	1/4	106,107	1/4	121,125	1/4	136,143
1/2	2,572	1/2	16,297	1/2	31,309	1/2	46,333	1/2	61,349	1/2	76,373	1/2	91,396	1/2	106,420	1/2	121,438	1/2	136,455
3/4	2,834	3/4	16,607	3/4	31,622	3/4	46,646	3/4	61,662	3/4	76,686	3/4	91,709	3/4	106,733	3/4	121,751	3/4	136,768
3	3,096	3	16,916	3	31,935	3	46,959	3	61,975	3	76,999	3	92,022	3	107,046	3	122,064	3	137,081
1/4	3,362	1/4	17,228	1/4	32,248	1/4	47,272	1/4	62,288	1/4	77,312	1/4	92,335	1/4	107,359	1/4	122,377	1/4	137,394
1/2	3,629	1/2	17,540	1/2	32,561	1/2	47,584	1/2	62,601	1/2	77,625	1/2	92,648	1/2	107,672	1/2	122,690	1/2	137,707
3/4	3,895	3/4	17,852	3/4	32,874	3/4	47,897	3/4	62,914	3/4	77,938	3/4	92,961	3/4	107,985	3/4	123,002	3/4	138,020
4	4,162	4	18,164	4	33,187	4	48,210	4	63,227	4	78,251	4	93,274	4	108,298	4	123,315	4	138,333
1/4	4,432	1/4	18,477	1/4	33,500	1/4	48,523	1/4	63,540	1/4	78,564	1/4	93,587	1/4	108,611	1/4	123,628	1/4	138,646
1/2	4,703	1/2	18,790	1/2	33,813	1/2	48,836	1/2	63,853	1/2	78,877	1/2	93,900	1/2	108,924	1/2	123,941	1/2	138,958
3/4	4,973	3/4	19,103	3/4	34,126	3/4	49,149	3/4	64,166	3/4	79,190	3/4	94,213	3/4	109,237	3/4	124,254	3/4	139,271
5	5,244	5	19,416	5	34,439	5	49,462	5	64,479	5	79,503	5	94,526	5	109,549	5	124,567	5	139,584
1/4	5,518	1/4	19,729	1/4	34,752	1/4	49,775	1/4	64,792	1/4	79,816	1/4	94,839	1/4	109,862	1/4	124,880	1/4	139,897
1/2	5,793	1/2	20,042	1/2	35,065	1/2	50,088	1/2	65,105	1/2	80,129	1/2	95,152	1/2	110,175	1/2	125,193	1/2	140,210
3/4	6,067	3/4	20,355	3/4	35,378	3/4	50,401	3/4	65,418	3/4	80,442	3/4	95,465	3/4	110,488	3/4	125,505	3/4	140,523
6	6,342	6	20,668	6	35,691	6	50,714	6	65,731	6	80,755	6	95,778	6	110,801	6	125,818	6	140,836
1/4	6,620	1/4	20,981	1/4	36,004	1/4	51,027	1/4	66,044	1/4	81,068	1/4	96,091	1/4	111,114	1/4	126,131	1/4	141,148
1/2	6,898	1/2	21,294	1/2	36,317	1/2	51,340	1/2	66,357	1/2	81,381	1/2	96,404	1/2	111,427	1/2	126,444	1/2	141,461
3/4	7,177	3/4	21,607	3/4	36,630	3/4	51,653	3/4	66,670	3/4	81,694	3/4	96,717	3/4	111,739	3/4	126,757	3/4	141,774
7	7,455	7	21,920	7	36,943	7	51,966	7	66,983	7	82,007	7	97,030	7	112,052	7	127,070	7	142,087
1/4	7,737	1/4	22,233	1/4	37,256	1/4	52,279	1/4	67,296	1/4	82,320	1/4	97,343	1/4	112,365	1/4	127,383	1/4	142,400
1/2	8,019	1/2	22,546	1/2	37,569	1/2	52,592	1/2	67,609	1/2	82,633	1/2	97,656	1/2	112,678	1/2	127,695	1/2	142,713
3/4	8,301	3/4	22,859	3/4	37,882	3/4	52,905	3/4	67,922	3/4	82,946	3/4	97,969	3/4	112,991	3/4	128,008	3/4	143,026
8	8,584	8	23,172	8	38,195	8	53,217	8	68,235	8	83,259	8	98,282	8	113,304	8	128,321	8	143,339
1/4	8,870	1/4	23,485	1/4	38,508	1/4	53,530	1/4	68,548	1/4	83,572	1/4	98,595	1/4	113,617	1/4	128,634	1/4	143,651
1/2	9,156	1/2	23,798	1/2	38,821	1/2	53,843	1/2	68,861	1/2	83,885	1/2	98,908	1/2	113,930	1/2	128,947	1/2	143,964
3/4	9,442	3/4	24,110	3/4	39,134	3/4	54,156	3/4	69,174	3/4	84,198	3/4	99,221	3/4	114,242	3/4	129,260	3/4	144,277
9	9,728	9	24,423	9	39,447	9	54,468	9	69,487	9	84,511	9	99,534	9	114,555	9	129,573	9	144,590
1/4	10,017	1/4	24,736	1/4	39,760	1/4	54,781	1/4	69,800	1/4	84,824	1/4	99,847	1/4	114,868	1/4	129,885	1/4	144,903
1/2	10,307	1/2	25,049	1/2	40,073	1/2	55,094	1/2	70,113	1/2	85,137	1/2	100,160	1/2	115,181	1/2	130,198	1/2	145,216
3/4	10,597	3/4	25,362	3/4	40,386	3/4	55,407	3/4	70,426	3/4	85,450	3/4	100,473	3/4	115,494	3/4	130,511	3/4	145,529
10	10,887	10	25,675	10	40,699	10	55,720	10	70,739	10	85,763	10	100,786	10	115,807	10	130,824	10	145,841
1/4	11,181	1/4	25,988	1/4	41,012	1/4	56,032	1/4	71,052	1/4	86,076	1/4	101,099	1/4	116,120	1/4	131,137	1/4	146,154
1/2	11,475	1/2	26,301	1/2	41,325	1/2	56,345	1/2	71,365	1/2	86,389	1/2	101,412	1/2	116,432	1/2	131,450	1/2	146,467
3/4	11,768	3/4	26,614	3/4	41,638	3/4	56,658	3/4	71,678	3/4	86,702	3/4	101,725	3/4	116,745	3/4	131,763	3/4	146,780
11	12,062	11	26,927	11	41,951	11	56,971	11	71,991	11	87,015	11	102,038	11	117,058	11	132,075	11	147,093
1/4	12,360	1/4	27,240	1/4	42,264	1/4	57,283	1/4	72,304	1/4	87,328	1/4	102,351	1/4	117,371	1/4	132,388	1/4	147,406
1/2	12,657	1/2	27,553	1/2	42,577	1/2	57,596	1/2	72,617	1/2	87,641	1/2	102,664	1/2	117,684	1/2	132,701	1/2	147,719
3/4	12,955	3/4	27,866	3/4	42,890	3/4	57,909	3/4	72,930	3/4	87,954	3/4	102,977	3/4	117,997	3/4	133,014	3/4	148,032

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 433"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,344	0	163,362	0	178,370	0	193,344	0	208,246	0		0		0		0		0	
1/4	148,657	1/4	163,675	1/4	178,682	1/4	193,656	1/4	208,526	1/4		1/4		1/4		1/4		1/4	
1/2	148,970	1/2	163,988	1/2	178,994	1/2	193,968	1/2	208,806	1/2		1/2		1/2		1/2		1/2	
3/4	149,283	3/4	164,301	3/4	179,306	3/4	194,280	3/4	209,086	3/4		3/4		3/4		3/4		3/4	
1	149,596	1	164,613	1	179,618	1	194,592	1	209,366	1		1		1		1		1	
1/4	149,909	1/4	164,926	1/4	179,930	1/4	194,904	1/4	209,598	1/4		1/4		1/4		1/4		1/4	
1/2	150,222	1/2	165,239	1/2	180,242	1/2	195,216	1/2	209,829	1/2		1/2		1/2		1/2		1/2	
3/4	150,534	3/4	165,552	3/4	180,554	3/4	195,528	3/4	210,061	3/4		3/4		3/4		3/4		3/4	
2	150,847	2	165,865	2	180,866	2	195,840	2	210,293	2		2		2		2		2	
1/4	151,160	1/4	166,178	1/4	181,178	1/4	196,152	1/4	210,472	1/4		1/4		1/4		1/4		1/4	
1/2	151,473	1/2	166,491	1/2	181,490	1/2	196,464	1/2	210,652	1/2		1/2		1/2		1/2		1/2	
3/4	151,786	3/4	166,804	3/4	181,802	3/4	196,776	3/4	210,831	3/4		3/4		3/4		3/4		3/4	
3	152,099	3	167,116	3	182,114	3	197,088	3	211,011	3		3		3		3		3	
1/4	152,412	1/4	167,429	1/4	182,426	1/4	197,400	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,725	1/2	167,742	1/2	182,738	1/2	197,712	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,037	3/4	168,055	3/4	183,050	3/4	198,023	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,350	4	168,368	4	183,362	4	198,335	4		4		4		4		4		4	
1/4	153,663	1/4	168,681	1/4	183,674	1/4	198,647	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,976	1/2	168,994	1/2	183,986	1/2	198,959	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,289	3/4	169,306	3/4	184,298	3/4	199,271	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,602	5	169,619	5	184,609	5	199,583	5		5		5		5		5		5	
1/4	154,915	1/4	169,932	1/4	184,921	1/4	199,894	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,227	1/2	170,245	1/2	185,233	1/2	200,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,540	3/4	170,558	3/4	185,545	3/4	200,516	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,853	6	170,871	6	185,857	6	200,827	6		6		6		6		6		6	
1/4	156,166	1/4	171,184	1/4	186,169	1/4	201,137	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,479	1/2	171,496	1/2	186,481	1/2	201,446	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,792	3/4	171,809	3/4	186,793	3/4	201,756	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,105	7	172,122	7	187,105	7	202,066	7		7		7		7		7		7	
1/4	157,418	1/4	172,435	1/4	187,417	1/4	202,376	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,730	1/2	172,748	1/2	187,729	1/2	202,686	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,043	3/4	173,061	3/4	188,041	3/4	202,996	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,356	8	173,374	8	188,353	8	203,306	8		8		8		8		8		8	
1/4	158,669	1/4	173,687	1/4	188,665	1/4	203,616	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,982	1/2	173,999	1/2	188,977	1/2	203,925	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,295	3/4	174,312	3/4	189,289	3/4	204,235	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,608	9	174,625	9	189,601	9	204,545	9		9		9		9		9		9	
1/4	159,920	1/4	174,938	1/4	189,913	1/4	204,855	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,233	1/2	175,250	1/2	190,225	1/2	205,165	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,546	3/4	175,562	3/4	190,537	3/4	205,475	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,859	10	175,875	10	190,849	10	205,785	10		10		10		10		10		10	
1/4	161,172	1/4	176,187	1/4	191,161	1/4	206,094	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,485	1/2	176,499	1/2	191,472	1/2	206,404	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,798	3/4	176,811	3/4	191,784	3/4	206,713	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,111	11	177,123	11	192,096	11	207,023	11		11		11		11		11		11	
1/4	162,423	1/4	177,435	1/4	192,408	1/4	207,328	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,736	1/2	177,747	1/2	192,720	1/2	207,634	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,049	3/4	178,058	3/4	193,032	3/4	207,940	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2015 CL
CALCULATED: 10/21/2015 CL
PRINTED: 10/21/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
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BARGE "HFL 433"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	385	0	13,252	0	28,180	0	43,203	0	58,165	0	73,147	0	88,171	0	103,195	0	118,215	0	133,232
1/4	562	1/4	13,554	1/4	28,493	1/4	43,516	1/4	58,476	1/4	73,460	1/4	88,484	1/4	103,508	1/4	118,528	1/4	133,545
1/2	739	1/2	13,855	1/2	28,806	1/2	43,829	1/2	58,787	1/2	73,773	1/2	88,797	1/2	103,821	1/2	118,840	1/2	133,858
3/4	916	3/4	14,157	3/4	29,119	3/4	44,142	3/4	59,097	3/4	74,086	3/4	89,110	3/4	104,134	3/4	119,153	3/4	134,171
1	1,093	1	14,458	1	29,432	1	44,455	1	59,408	1	74,399	1	89,423	1	104,447	1	119,466	1	134,484
1/4	1,332	1/4	14,763	1/4	29,745	1/4	44,768	1/4	59,719	1/4	74,712	1/4	89,736	1/4	104,760	1/4	119,779	1/4	134,797
1/2	1,570	1/2	15,069	1/2	30,058	1/2	45,081	1/2	60,029	1/2	75,025	1/2	90,049	1/2	105,073	1/2	120,092	1/2	135,109
3/4	1,809	3/4	15,374	3/4	30,371	3/4	45,394	3/4	60,340	3/4	75,338	3/4	90,362	3/4	105,386	3/4	120,405	3/4	135,422
2	2,048	2	15,679	2	30,684	2	45,707	2	60,651	2	75,651	2	90,675	2	105,699	2	120,718	2	135,735
1/4	2,310	1/4	15,988	1/4	30,997	1/4	46,020	1/4	60,961	1/4	75,964	1/4	90,988	1/4	106,012	1/4	121,030	1/4	136,048
1/2	2,572	1/2	16,298	1/2	31,310	1/2	46,333	1/2	61,272	1/2	76,277	1/2	91,301	1/2	106,325	1/2	121,343	1/2	136,361
3/4	2,834	3/4	16,607	3/4	31,623	3/4	46,646	3/4	61,583	3/4	76,590	3/4	91,614	3/4	106,638	3/4	121,656	3/4	136,674
3	3,095	3	16,916	3	31,936	3	46,959	3	61,893	3	76,903	3	91,927	3	106,951	3	121,969	3	136,987
1/4	3,362	1/4	17,228	1/4	32,249	1/4	47,272	1/4	62,204	1/4	77,216	1/4	92,240	1/4	107,264	1/4	122,282	1/4	137,300
1/2	3,628	1/2	17,540	1/2	32,562	1/2	47,585	1/2	62,515	1/2	77,529	1/2	92,553	1/2	107,577	1/2	122,595	1/2	137,612
3/4	3,895	3/4	17,852	3/4	32,875	3/4	47,898	3/4	62,826	3/4	77,842	3/4	92,866	3/4	107,890	3/4	122,908	3/4	137,925
4	4,161	4	18,164	4	33,188	4	48,211	4	63,136	4	78,155	4	93,179	4	108,203	4	123,221	4	138,238
1/4	4,432	1/4	18,477	1/4	33,501	1/4	48,524	1/4	63,448	1/4	78,468	1/4	93,492	1/4	108,516	1/4	123,533	1/4	138,551
1/2	4,703	1/2	18,790	1/2	33,814	1/2	48,836	1/2	63,760	1/2	78,781	1/2	93,805	1/2	108,829	1/2	123,846	1/2	138,864
3/4	4,973	3/4	19,103	3/4	34,127	3/4	49,148	3/4	64,072	3/4	79,094	3/4	94,118	3/4	109,141	3/4	124,159	3/4	139,177
5	5,244	5	19,416	5	34,440	5	49,460	5	64,384	5	79,407	5	94,431	5	109,454	5	124,472	5	139,490
1/4	5,518	1/4	19,729	1/4	34,753	1/4	49,772	1/4	64,696	1/4	79,720	1/4	94,744	1/4	109,767	1/4	124,785	1/4	139,802
1/2	5,793	1/2	20,042	1/2	35,066	1/2	50,084	1/2	65,009	1/2	80,033	1/2	95,057	1/2	110,080	1/2	125,098	1/2	140,115
3/4	6,067	3/4	20,355	3/4	35,379	3/4	50,395	3/4	65,322	3/4	80,346	3/4	95,370	3/4	110,393	3/4	125,411	3/4	140,428
6	6,342	6	20,668	6	35,692	6	50,707	6	65,635	6	80,659	6	95,683	6	110,706	6	125,723	6	140,741
1/4	6,620	1/4	20,981	1/4	36,005	1/4	51,018	1/4	65,948	1/4	80,972	1/4	95,996	1/4	111,019	1/4	126,036	1/4	141,054
1/2	6,898	1/2	21,294	1/2	36,318	1/2	51,329	1/2	66,261	1/2	81,285	1/2	96,309	1/2	111,332	1/2	126,349	1/2	141,367
3/4	7,177	3/4	21,607	3/4	36,631	3/4	51,641	3/4	66,574	3/4	81,598	3/4	96,622	3/4	111,644	3/4	126,662	3/4	141,680
7	7,455	7	21,920	7	36,944	7	51,952	7	66,887	7	81,911	7	96,935	7	111,957	7	126,975	7	141,993
1/4	7,737	1/4	22,233	1/4	37,257	1/4	52,263	1/4	67,200	1/4	82,224	1/4	97,248	1/4	112,270	1/4	127,288	1/4	142,305
1/2	8,019	1/2	22,546	1/2	37,570	1/2	52,574	1/2	67,513	1/2	82,537	1/2	97,561	1/2	112,583	1/2	127,601	1/2	142,618
3/4	8,301	3/4	22,859	3/4	37,883	3/4	52,885	3/4	67,826	3/4	82,850	3/4	97,874	3/4	112,896	3/4	127,914	3/4	142,931
8	8,584	8	23,172	8	38,196	8	53,195	8	68,139	8	83,163	8	98,187	8	113,209	8	128,226	8	143,244
1/4	8,870	1/4	23,485	1/4	38,509	1/4	53,506	1/4	68,452	1/4	83,476	1/4	98,500	1/4	113,522	1/4	128,539	1/4	143,557
1/2	9,156	1/2	23,798	1/2	38,822	1/2	53,817	1/2	68,765	1/2	83,789	1/2	98,813	1/2	113,834	1/2	128,852	1/2	143,870
3/4	9,442	3/4	24,111	3/4	39,135	3/4	54,127	3/4	69,078	3/4	84,102	3/4	99,126	3/4	114,147	3/4	129,165	3/4	144,183
9	9,728	9	24,424	9	39,448	9	54,438	9	69,391	9	84,415	9	99,439	9	114,460	9	129,478	9	144,495
1/4	10,018	1/4	24,737	1/4	39,761	1/4	54,749	1/4	69,704	1/4	84,728	1/4	99,752	1/4	114,773	1/4	129,791	1/4	144,808
1/2	10,307	1/2	25,050	1/2	40,074	1/2	55,059	1/2	70,017	1/2	85,041	1/2	100,065	1/2	115,086	1/2	130,104	1/2	145,121
3/4	10,597	3/4	25,363	3/4	40,387	3/4	55,370	3/4	70,330	3/4	85,354	3/4	100,378	3/4	115,399	3/4	130,416	3/4	145,434
10	10,887	10	25,676	10	40,699	10	55,680	10	70,643	10	85,667	10	100,691	10	115,712	10	130,729	10	145,747
1/4	11,181	1/4	25,989	1/4	41,012	1/4	55,991	1/4	70,956	1/4	85,980	1/4	101,004	1/4	116,025	1/4	131,042	1/4	146,060
1/2	11,475	1/2	26,302	1/2	41,325	1/2	56,302	1/2	71,269	1/2	86,293	1/2	101,317	1/2	116,337	1/2	131,355	1/2	146,373
3/4	11,768	3/4	26,615	3/4	41,638	3/4	56,612	3/4	71,582	3/4	86,606	3/4	101,630	3/4	116,650	3/4	131,668	3/4	146,686
11	12,062	11	26,928	11	41,951	11	56,923	11	71,895	11	86,919	11	101,943	11	116,963	11	131,981	11	146,998
1/4	12,360	1/4	27,241	1/4	42,264	1/4	57,234	1/4	72,208	1/4	87,232	1/4	102,256	1/4	117,276	1/4	132,294	1/4	147,311
1/2	12,657	1/2	27,554	1/2	42,577	1/2	57,544	1/2	72,521	1/2	87,545	1/2	102,569	1/2	117,589	1/2	132,607	1/2	147,624
3/4	12,955	3/4	27,867	3/4	42,890	3/4	57,855	3/4	72,834	3/4	87,858	3/4	102,882	3/4	117,902	3/4	132,919	3/4	147,937

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 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 433"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,250	0	163,267	0	178,276	0	193,250	0	208,151	0		0		0		0		0	
1/4	148,563	1/4	163,580	1/4	178,588	1/4	193,562	1/4	208,431	1/4		1/4		1/4		1/4		1/4	
1/2	148,876	1/2	163,893	1/2	178,900	1/2	193,874	1/2	208,711	1/2		1/2		1/2		1/2		1/2	
3/4	149,188	3/4	164,206	3/4	179,212	3/4	194,186	3/4	208,992	3/4		3/4		3/4		3/4		3/4	
1	149,501	1	164,519	1	179,524	1	194,498	1	209,272	1		1		1		1		1	
1/4	149,814	1/4	164,832	1/4	179,836	1/4	194,810	1/4	209,503	1/4		1/4		1/4		1/4		1/4	
1/2	150,127	1/2	165,145	1/2	180,148	1/2	195,122	1/2	209,735	1/2		1/2		1/2		1/2		1/2	
3/4	150,440	3/4	165,458	3/4	180,460	3/4	195,433	3/4	209,967	3/4		3/4		3/4		3/4		3/4	
2	150,753	2	165,770	2	180,772	2	195,745	2	210,198	2		2		2		2		2	
1/4	151,066	1/4	166,083	1/4	181,084	1/4	196,057	1/4	210,378	1/4		1/4		1/4		1/4		1/4	
1/2	151,379	1/2	166,396	1/2	181,396	1/2	196,369	1/2	210,557	1/2		1/2		1/2		1/2		1/2	
3/4	151,691	3/4	166,709	3/4	181,707	3/4	196,681	3/4	210,737	3/4		3/4		3/4		3/4		3/4	
3	152,004	3	167,022	3	182,019	3	196,993	3	210,917	3		3		3		3		3	
1/4	152,317	1/4	167,335	1/4	182,331	1/4	197,305	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,630	1/2	167,648	1/2	182,643	1/2	197,617	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,943	3/4	167,961	3/4	182,955	3/4	197,929	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,256	4	168,273	4	183,267	4	198,241	4		4		4		4		4		4	
1/4	153,569	1/4	168,586	1/4	183,579	1/4	198,553	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,881	1/2	168,899	1/2	183,891	1/2	198,865	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,194	3/4	169,212	3/4	184,203	3/4	199,177	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,507	5	169,525	5	184,515	5	199,489	5		5		5		5		5		5	
1/4	154,820	1/4	169,838	1/4	184,827	1/4	199,800	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,133	1/2	170,151	1/2	185,139	1/2	200,111	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,446	3/4	170,463	3/4	185,451	3/4	200,422	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,759	6	170,776	6	185,763	6	200,732	6		6		6		6		6		6	
1/4	156,072	1/4	171,089	1/4	186,075	1/4	201,042	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,384	1/2	171,402	1/2	186,387	1/2	201,352	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,697	3/4	171,715	3/4	186,699	3/4	201,662	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,010	7	172,028	7	187,011	7	201,972	7		7		7		7		7		7	
1/4	157,323	1/4	172,341	1/4	187,323	1/4	202,282	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,636	1/2	172,654	1/2	187,635	1/2	202,591	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,949	3/4	172,966	3/4	187,947	3/4	202,901	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,262	8	173,279	8	188,259	8	203,211	8		8		8		8		8		8	
1/4	158,574	1/4	173,592	1/4	188,570	1/4	203,521	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,887	1/2	173,905	1/2	188,882	1/2	203,831	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,200	3/4	174,218	3/4	189,194	3/4	204,141	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,513	9	174,531	9	189,506	9	204,451	9		9		9		9		9		9	
1/4	159,826	1/4	174,843	1/4	189,818	1/4	204,761	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,139	1/2	175,156	1/2	190,130	1/2	205,071	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,452	3/4	175,468	3/4	190,442	3/4	205,381	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,765	10	175,780	10	190,754	10	205,690	10		10		10		10		10		10	
1/4	161,077	1/4	176,092	1/4	191,066	1/4	206,000	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,390	1/2	176,404	1/2	191,378	1/2	206,309	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,703	3/4	176,716	3/4	191,690	3/4	206,619	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,016	11	177,028	11	192,002	11	206,928	11		11		11		11		11		11	
1/4	162,329	1/4	177,340	1/4	192,314	1/4	207,234	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,642	1/2	177,652	1/2	192,626	1/2	207,540	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,955	3/4	177,964	3/4	192,938	3/4	207,846	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2015 CL
CALCULATED: 10/21/2015 CL
PRINTED: 10/21/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 433"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-00"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4		3/4		3/4	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1		1		1	
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2		1/2		1/2	
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4		3/4		3/4	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2		2		2	
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4		1/4		1/4	
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2		1/2		1/2	
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4		3/4		3/4	
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3		3		3	
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2		1/2		1/2	
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4		3/4		3/4	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4		4		4	
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4		1/4		1/4	
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4		3/4		3/4	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5		5		5	
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4		3/4		3/4	
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6		6		6	
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4		3/4		3/4	
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7		7		7	
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4		3/4		3/4	
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8		8		8	
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4		3/4		3/4	
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9		9		9	
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10		10		10	
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11		11		11	
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

STRAPPED: 10/21/2015 CL
 CALCULATED: 10/21/2015 CL
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CANCELS AND SUPERCEDES
 ALL PRIOR TO 10/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HFL 433"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-00"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4		3/4		3/4	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1		1		1	
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2		1/2		1/2	
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4		3/4		3/4	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2		2		2	
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4		1/4		1/4	
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2		1/2		1/2	
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4		3/4		3/4	
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3		3		3	
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2		1/2		1/2	
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4		3/4		3/4	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4		4		4	
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4		1/4		1/4	
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4		3/4		3/4	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5		5		5	
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4		3/4		3/4	
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6		6		6	
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4		3/4		3/4	
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7		7		7	
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4		3/4		3/4	
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8		8		8	
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4		3/4		3/4	
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9		9		9	
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10		10		10	
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11		11		11	
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

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BARGE "HFL 433"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 1/2

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	101	0	258	0	414	0	515	0		0		0		0		0	
1/4	1	1/4	104	1/4	261	1/4	417	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	264	1/2	420	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	268	3/4	423	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	271	1	426	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	275	1/4	429	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	278	1/2	432	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	281	3/4	434	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	285	2	437	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	128	1/4	288	1/4	440	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	292	1/2	443	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	295	3/4	445	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	298	3	448	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	302	1/4	451	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	305	1/2	453	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	309	3/4	456	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	150	4	312	4	459	4	4	4	4	4	4	4	4	4	4	4	4
1/4	22	1/4	154	1/4	315	1/4	461	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	157	1/2	319	1/2	464	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	160	3/4	322	3/4	466	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	325	5	469	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	329	1/4	471	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	332	1/2	473	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	173	3/4	335	3/4	476	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	339	6	478	6	6	6	6	6	6	6	6	6	6	6	6
1/4	39	1/4	180	1/4	342	1/4	480	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	183	1/2	345	1/2	482	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	349	3/4	484	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	352	7	487	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	193	1/4	355	1/4	489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	358	1/2	491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	200	3/4	362	3/4	493	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	203	8	365	8	495	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	368	1/4	496	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	210	1/2	371	1/2	498	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	213	3/4	374	3/4	500	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	378	9	502	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	220	1/4	381	1/4	503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	384	1/2	505	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	227	3/4	387	3/4	506	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	230	10	390	10	508	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	234	1/4	393	1/4	509	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	237	1/2	396	1/2	510	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	399	3/4	511	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	244	11	402	11	512	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	247	1/4	405	1/4	513	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	251	1/2	408	1/2	514	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	254	3/4	411	3/4	514	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE.

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