



BARGE "HFL 3081"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HTCO 3081"

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	120	0	301	0	465	0		0		0		0		0		0	
1/4	1	1/4	124	1/4	305	1/4	468	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	127	1/2	309	1/2	470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	131	3/4	313	3/4	473	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	134	1	316	1	476	1		1		1		1		1		1	
1/4	5	1/4	138	1/4	320	1/4	478	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	142	1/2	324	1/2	480	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	145	3/4	328	3/4	483	3/4		3/4		3/4		3/4		3/4		3/4	
2	9	2	149	2	331	2	485	2		2		2		2		2		2	
1/4	11	1/4	152	1/4	335	1/4	487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	13	1/2	156	1/2	339	1/2	489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	14	3/4	160	3/4	343	3/4	491	3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	163	3	346	3	494	3		3		3		3		3		3	
1/4	18	1/4	167	1/4	350	1/4	495	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	20	1/2	171	1/2	354	1/2	497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	175	3/4	357	3/4	499	3/4		3/4		3/4		3/4		3/4		3/4	
4	25	4	178	4	361	4	501	4		4		4		4		4		4	
1/4	27	1/4	182	1/4	365	1/4	502	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	29	1/2	186	1/2	368	1/2	504	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	32	3/4	190	3/4	372	3/4	505	3/4		3/4		3/4		3/4		3/4		3/4	
5	34	5	193	5	375	5	507	5		5		5		5		5		5	
1/4	37	1/4	197	1/4	379	1/4	507	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	39	1/2	201	1/2	383	1/2	508	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42	3/4	205	3/4	386	3/4	509	3/4		3/4		3/4		3/4		3/4		3/4	
6	45	6	209	6	390	6	510	6		6		6		6		6		6	
1/4	47	1/4	213	1/4	393	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	216	1/2	396	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	220	3/4	400	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	56	7	224	7	403	7		7		7		7		7		7		7	
1/4	59	1/4	228	1/4	407	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	232	1/2	410	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	236	3/4	413	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	68	8	239	8	417	8		8		8		8		8		8		8	
1/4	71	1/4	243	1/4	420	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	74	1/2	247	1/2	423	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	77	3/4	251	3/4	426	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	80	9	255	9	430	9		9		9		9		9		9		9	
1/4	83	1/4	259	1/4	433	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	87	1/2	263	1/2	436	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	90	3/4	266	3/4	439	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	93	10	270	10	442	10		10		10		10		10		10		10	
1/4	96	1/4	274	1/4	445	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	100	1/2	278	1/2	448	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	282	3/4	451	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	106	11	286	11	454	11		11		11		11		11		11		11	
1/4	110	1/4	290	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113	1/2	293	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	117	3/4	297	3/4	462	3/4		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 AT GAUGE POINT.

STRAPPED: 12/02/2021 JS
CALCULATED: 12/03/2021 CL
PRINTED: 12/03/2021 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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 3081"

SLOP TANK

FWD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HTCO 3081"

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	451	0	903	0	1,354	0	1,805	0		0		0		0		0	
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4		3/4		3/4		3/4		3/4	
1	38	1	489	1	940	1	1,392	1	1,843	1		1		1		1		1	
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	517	3/4	968	3/4	1,420	3/4	1,871	3/4		3/4		3/4		3/4		3/4	
2	75	2	527	2	978	2	1,429	2	1,881	2		2		2		2		2	
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4		3/4		3/4		3/4		3/4	
3	113	3	564	3	1,015	3	1,467	3	1,918	3		3		3		3		3	
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2		1/2		1/2		1/2		1/2	
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4		3/4		3/4		3/4		3/4	
4	150	4	602	4	1,053	4	1,504	4	1,956	4		4		4		4		4	
1/4	160	1/4	611	1/4	1,062	1/4	1,514	1/4	1,965	1/4		1/4		1/4		1/4		1/4	
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2		1/2		1/2		1/2		1/2	
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4		3/4		3/4		3/4		3/4	
5	188	5	639	5	1,091	5	1,542	5	1,993	5		5		5		5		5	
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4		1/4		1/4		1/4		1/4	
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2		1/2		1/2		1/2		1/2	
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4		3/4		3/4		3/4		3/4	
6	226	6	677	6	1,128	6	1,580	6	2,031	6		6		6		6		6	
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	244	1/2	696	1/2	1,147	1/2	1,598	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4		3/4		3/4		3/4		3/4		3/4	
7	263	7	715	7	1,166	7	1,617	7		7		7		7		7		7	
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	291	3/4	743	3/4	1,194	3/4	1,645	3/4		3/4		3/4		3/4		3/4		3/4	
8	301	8	752	8	1,204	8	1,655	8		8		8		8		8		8	
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4		3/4		3/4		3/4		3/4		3/4	
9	338	9	790	9	1,241	9	1,692	9		9		9		9		9		9	
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4		3/4		3/4		3/4		3/4		3/4	
10	376	10	827	10	1,279	10	1,730	10		10		10		10		10		10	
1/4	386	1/4	837	1/4	1,288	1/4	1,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	395	1/2	846	1/2	1,298	1/2	1,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	404	3/4	856	3/4	1,307	3/4	1,758	3/4		3/4		3/4		3/4		3/4		3/4	
11	414	11	865	11	1,316	11	1,768	11		11		11		11		11		11	
1/4	423	1/4	874	1/4	1,326	1/4	1,777	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	884	1/2	1,335	1/2	1,786	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442	3/4	893	3/4	1,345	3/4	1,796	3/4		3/4		3/4		3/4		3/4		3/4	

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BARGE "HFL 3081"

SLOP TANK

AFT

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HTCO 3081"

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	451	0	903	0	1,354	0	1,805	0		0		0		0		0	
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4		3/4		3/4		3/4		3/4	
1	38	1	489	1	940	1	1,392	1	1,843	1		1		1		1		1	
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	517	3/4	968	3/4	1,420	3/4	1,871	3/4		3/4		3/4		3/4		3/4	
2	75	2	527	2	978	2	1,429	2	1,881	2		2		2		2		2	
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4		3/4		3/4		3/4		3/4	
3	113	3	564	3	1,015	3	1,467	3	1,918	3		3		3		3		3	
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2		1/2		1/2		1/2		1/2	
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4		3/4		3/4		3/4		3/4	
4	150	4	602	4	1,053	4	1,504	4	1,956	4		4		4		4		4	
1/4	160	1/4	611	1/4	1,062	1/4	1,514	1/4	1,965	1/4		1/4		1/4		1/4		1/4	
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2		1/2		1/2		1/2		1/2	
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4		3/4		3/4		3/4		3/4	
5	188	5	639	5	1,091	5	1,542	5	1,993	5		5		5		5		5	
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4		1/4		1/4		1/4		1/4	
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2		1/2		1/2		1/2		1/2	
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4		3/4		3/4		3/4		3/4	
6	226	6	677	6	1,128	6	1,580	6	2,031	6		6		6		6		6	
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	244	1/2	696	1/2	1,147	1/2	1,598	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4		3/4		3/4		3/4		3/4		3/4	
7	263	7	715	7	1,166	7	1,617	7		7		7		7		7		7	
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	291	3/4	743	3/4	1,194	3/4	1,645	3/4		3/4		3/4		3/4		3/4		3/4	
8	301	8	752	8	1,204	8	1,655	8		8		8		8		8		8	
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4		3/4		3/4		3/4		3/4		3/4	
9	338	9	790	9	1,241	9	1,692	9		9		9		9		9		9	
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4		3/4		3/4		3/4		3/4		3/4	
10	376	10	827	10	1,279	10	1,730	10		10		10		10		10		10	
1/4	386	1/4	837	1/4	1,288	1/4	1,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	395	1/2	846	1/2	1,298	1/2	1,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	404	3/4	856	3/4	1,307	3/4	1,758	3/4		3/4		3/4		3/4		3/4		3/4	
11	414	11	865	11	1,316	11	1,768	11		11		11		11		11		11	
1/4	423	1/4	874	1/4	1,326	1/4	1,777	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	884	1/2	1,335	1/2	1,786	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442	3/4	893	3/4	1,345	3/4	1,796	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 AT GAUGE POINT.

STRAPPED: 12/02/2021 JS
 CALCULATED: 12/03/2021 CL
 PRINTED: 12/03/2021 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 3081"

INNAGE (HERMETIC)

	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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8
1 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8
2 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
2 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 237'-09"

December 3, 2021

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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 Pearland, Texas 77588

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BARGE "HFL 3081"

1 PORT INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	18.62	0	334.71	0	691.59	0	1,047.79	0	1,404.00	0	1,760.21	0	2,116.42	0	2,472.63	0	2,828.83	0	3,185.04
1/4	22.03	1/4	341.94	1/4	699.01	1/4	1,055.21	1/4	1,411.42	1/4	1,767.63	1/4	2,123.84	1/4	2,480.05	1/4	2,836.25	1/4	3,192.46
1/2	26.97	1/2	349.27	1/2	706.43	1/2	1,062.63	1/2	1,418.84	1/2	1,775.05	1/2	2,131.26	1/2	2,487.47	1/2	2,843.67	1/2	3,199.88
3/4	31.91	3/4	356.60	3/4	713.85	3/4	1,070.06	3/4	1,426.27	3/4	1,782.47	3/4	2,138.68	3/4	2,494.89	3/4	2,851.10	3/4	3,207.30
1	36.84	1	363.93	1	721.27	1	1,077.48	1	1,433.69	1	1,789.89	1	2,146.10	1	2,502.31	1	2,858.52	1	3,214.72
1/4	41.78	1/4	371.26	1/4	728.69	1/4	1,084.90	1/4	1,441.11	1/4	1,797.31	1/4	2,153.52	1/4	2,509.73	1/4	2,865.94	1/4	3,222.14
1/2	48.04	1/2	378.62	1/2	736.11	1/2	1,092.32	1/2	1,448.53	1/2	1,804.73	1/2	2,160.94	1/2	2,517.15	1/2	2,873.36	1/2	3,229.56
3/4	54.30	3/4	385.98	3/4	743.53	3/4	1,099.74	3/4	1,455.95	3/4	1,812.16	3/4	2,168.37	3/4	2,524.57	3/4	2,880.78	3/4	3,236.99
2	60.56	2	393.33	2	750.95	2	1,107.16	2	1,463.37	2	1,819.58	2	2,175.79	2	2,531.99	2	2,888.20	2	3,244.41
1/4	66.82	1/4	400.69	1/4	758.37	1/4	1,114.58	1/4	1,470.79	1/4	1,827.00	1/4	2,183.21	1/4	2,539.41	1/4	2,895.62	1/4	3,251.83
1/2	73.29	1/2	408.14	1/2	765.79	1/2	1,122.00	1/2	1,478.21	1/2	1,834.42	1/2	2,190.63	1/2	2,546.83	1/2	2,903.04	1/2	3,259.25
3/4	79.75	3/4	415.60	3/4	773.21	3/4	1,129.43	3/4	1,485.63	3/4	1,841.84	3/4	2,198.05	3/4	2,554.26	3/4	2,910.46	3/4	3,266.67
3	86.22	3	423.05	3	780.64	3	1,136.85	3	1,493.05	3	1,849.26	3	2,205.47	3	2,561.68	3	2,917.88	3	3,274.09
1/4	92.68	1/4	430.50	1/4	788.06	1/4	1,144.27	1/4	1,500.47	1/4	1,856.68	1/4	2,212.89	1/4	2,569.10	1/4	2,925.30	1/4	3,281.51
1/2	99.18	1/2	437.98	1/2	795.48	1/2	1,151.69	1/2	1,507.89	1/2	1,864.10	1/2	2,220.31	1/2	2,576.52	1/2	2,932.72	1/2	3,288.93
3/4	105.67	3/4	445.47	3/4	802.90	3/4	1,159.11	3/4	1,515.32	3/4	1,871.53	3/4	2,227.73	3/4	2,583.94	3/4	2,940.15	3/4	3,296.36
4	112.17	4	452.95	4	810.32	4	1,166.53	4	1,522.74	4	1,878.95	4	2,235.15	4	2,591.36	4	2,947.57	4	3,303.78
1/4	118.66	1/4	460.43	1/4	817.74	1/4	1,173.95	1/4	1,530.16	1/4	1,886.37	1/4	2,242.57	1/4	2,598.78	1/4	2,954.99	1/4	3,311.20
1/2	125.25	1/2	468.01	1/2	825.16	1/2	1,181.37	1/2	1,537.58	1/2	1,893.79	1/2	2,249.99	1/2	2,606.20	1/2	2,962.41	1/2	3,318.62
3/4	131.83	3/4	475.59	3/4	832.58	3/4	1,188.79	3/4	1,545.00	3/4	1,901.21	3/4	2,257.42	3/4	2,613.63	3/4	2,969.83	3/4	3,326.04
5	138.42	5	483.17	5	840.01	5	1,196.21	5	1,552.42	5	1,908.63	5	2,264.84	5	2,621.05	5	2,977.25	5	3,333.46
1/4	145.00	1/4	490.75	1/4	847.43	1/4	1,203.63	1/4	1,559.84	1/4	1,916.05	1/4	2,272.26	1/4	2,628.47	1/4	2,984.67	1/4	3,340.88
1/2	151.68	1/2	498.29	1/2	854.85	1/2	1,211.05	1/2	1,567.26	1/2	1,923.47	1/2	2,279.68	1/2	2,635.89	1/2	2,992.09	1/2	3,348.30
3/4	158.36	3/4	505.83	3/4	862.27	3/4	1,218.48	3/4	1,574.69	3/4	1,930.89	3/4	2,287.10	3/4	2,643.31	3/4	2,999.52	3/4	3,355.72
6	165.03	6	513.36	6	869.69	6	1,225.90	6	1,582.11	6	1,938.31	6	2,294.52	6	2,650.73	6	3,006.94	6	3,363.14
1/4	171.71	1/4	520.90	1/4	877.11	1/4	1,233.32	1/4	1,589.53	1/4	1,945.73	1/4	2,301.94	1/4	2,658.15	1/4	3,014.36	1/4	3,370.56
1/2	178.66	1/2	528.32	1/2	884.53	1/2	1,240.74	1/2	1,596.95	1/2	1,953.15	1/2	2,309.36	1/2	2,665.57	1/2	3,021.78	1/2	3,377.98
3/4	185.62	3/4	535.75	3/4	891.95	3/4	1,248.16	3/4	1,604.37	3/4	1,960.58	3/4	2,316.79	3/4	2,672.99	3/4	3,029.20	3/4	3,385.41
7	192.57	7	543.17	7	899.37	7	1,255.58	7	1,611.79	7	1,968.00	7	2,324.21	7	2,680.41	7	3,036.62	7	3,392.83
1/4	199.52	1/4	550.59	1/4	906.79	1/4	1,263.00	1/4	1,619.21	1/4	1,975.42	1/4	2,331.63	1/4	2,687.83	1/4	3,044.04	1/4	3,400.25
1/2	206.50	1/2	558.01	1/2	914.21	1/2	1,270.42	1/2	1,626.63	1/2	1,982.84	1/2	2,339.05	1/2	2,695.25	1/2	3,051.46	1/2	3,407.67
3/4	213.49	3/4	565.43	3/4	921.63	3/4	1,277.85	3/4	1,634.05	3/4	1,990.26	3/4	2,346.47	3/4	2,702.68	3/4	3,058.88	3/4	3,415.09
8	220.47	8	572.85	8	929.06	8	1,285.27	8	1,641.47	8	1,997.68	8	2,353.89	8	2,710.10	8	3,066.30	8	3,422.51
1/4	227.45	1/4	580.27	1/4	936.48	1/4	1,292.69	1/4	1,648.89	1/4	2,005.10	1/4	2,361.31	1/4	2,717.52	1/4	3,073.72	1/4	3,429.93
1/2	234.53	1/2	587.69	1/2	943.90	1/2	1,300.11	1/2	1,656.31	1/2	2,012.52	1/2	2,368.73	1/2	2,724.94	1/2	3,081.14	1/2	3,437.35
3/4	241.61	3/4	595.11	3/4	951.32	3/4	1,307.53	3/4	1,663.74	3/4	2,019.95	3/4	2,376.15	3/4	2,732.36	3/4	3,088.57	3/4	3,444.78
9	248.68	9	602.53	9	958.74	9	1,314.95	9	1,671.16	9	2,027.37	9	2,383.57	9	2,739.78	9	3,095.99	9	3,452.20
1/4	255.76	1/4	609.95	1/4	966.16	1/4	1,322.37	1/4	1,678.58	1/4	2,034.79	1/4	2,390.99	1/4	2,747.20	1/4	3,103.41	1/4	3,459.62
1/2	262.87	1/2	617.37	1/2	973.58	1/2	1,329.79	1/2	1,686.00	1/2	2,042.21	1/2	2,398.41	1/2	2,754.62	1/2	3,110.83	1/2	3,467.04
3/4	269.98	3/4	624.80	3/4	981.00	3/4	1,337.21	3/4	1,693.42	3/4	2,049.63	3/4	2,405.84	3/4	2,762.04	3/4	3,118.25	3/4	3,474.46
10	277.08	10	632.22	10	988.43	10	1,344.63	10	1,700.84	10	2,057.05	10	2,413.26	10	2,769.46	10	3,125.67	10	3,481.88
1/4	284.19	1/4	639.64	1/4	995.85	1/4	1,352.05	1/4	1,708.26	1/4	2,064.47	1/4	2,420.68	1/4	2,776.88	1/4	3,133.09	1/4	3,489.30
1/2	291.39	1/2	647.06	1/2	1,003.27	1/2	1,359.47	1/2	1,715.68	1/2	2,071.89	1/2	2,428.10	1/2	2,784.30	1/2	3,140.51	1/2	3,496.72
3/4	298.60	3/4	654.48	3/4	1,010.69	3/4	1,366.90	3/4	1,723.11	3/4	2,079.31	3/4	2,435.52	3/4	2,791.73	3/4	3,147.94	3/4	3,504.14
11	305.80	11	661.90	11	1,018.11	11	1,374.32	11	1,730.53	11	2,086.73	11	2,442.94	11	2,799.15	11	3,155.36	11	3,511.56
1/4	313.00	1/4	669.32	1/4	1,025.53	1/4	1,381.74	1/4	1,737.95	1/4	2,094.15	1/4	2,450.36	1/4	2,806.57	1/4	3,162.78	1/4	3,518.98
1/2	320.24	1/2	676.74	1/2	1,032.95	1/2	1,389.16	1/2	1,745.37	1/2	2,101.57	1/2	2,457.78	1/2	2,813.99	1/2	3,170.20	1/2	3,526.40
3/4	327.47	3/4	684.17	3/4	1,040.37	3/4	1,396.58	3/4	1,752.79	3/4	2,109.00	3/4	2,465.21	3/4	2,821.41	3/4	3,177.62	3/4	3,533.83

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 12'-06" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HFL 3081"

1 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	3,541.25	0	3,897.46	0	4,253.66	0	4,609.87	0	4,965.82	0		0		0		0		0	
1/4	3,548.67	1/4	3,904.88	1/4	4,261.08	1/4	4,617.29	1/4	4,973.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,556.09	1/2	3,912.31	1/2	4,268.50	1/2	4,624.71	1/2	4,979.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.51	3/4	3,919.74	3/4	4,275.93	3/4	4,632.14	3/4	4,986.73	3/4		3/4		3/4		3/4		3/4	
1	3,570.93	1	3,927.16	1	4,283.35	1	4,639.56	1	4,993.52	1		1		1		1		1	
1/4	3,578.35	1/4	3,934.59	1/4	4,290.77	1/4	4,646.98	1/4	5,000.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.77	1/2	3,942.00	1/2	4,298.19	1/2	4,654.41	1/2	5,005.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,593.20	3/4	3,949.42	3/4	4,305.61	3/4	4,661.83	3/4	5,011.63	3/4		3/4		3/4		3/4		3/4	
2	3,600.62	2	3,956.83	2	4,313.03	2	4,669.26	2	5,017.28	2		2		2		2		2	
1/4	3,608.04	1/4	3,964.24	1/4	4,320.45	1/4	4,676.68	1/4	5,022.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,615.46	1/2	3,971.66	1/2	4,327.87	1/2	4,684.10	1/2	5,027.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,622.88	3/4	3,979.09	3/4	4,335.30	3/4	4,691.51	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,630.30	3	3,986.51	3	4,342.72	3	4,698.93	3		3		3		3		3		3	
1/4	3,637.72	1/4	3,993.93	1/4	4,350.14	1/4	4,706.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,645.14	1/2	4,001.35	1/2	4,357.56	1/2	4,713.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,652.56	3/4	4,008.77	3/4	4,364.98	3/4	4,721.19	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,659.98	4	4,016.19	4	4,372.40	4	4,728.61	4		4		4		4		4		4	
1/4	3,667.40	1/4	4,023.61	1/4	4,379.82	1/4	4,736.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.82	1/2	4,031.03	1/2	4,387.24	1/2	4,743.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.25	3/4	4,038.46	3/4	4,394.66	3/4	4,750.87	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,689.67	5	4,045.88	5	4,402.08	5	4,758.29	5		5		5		5		5		5	
1/4	3,697.09	1/4	4,053.30	1/4	4,409.50	1/4	4,765.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.51	1/2	4,060.72	1/2	4,416.92	1/2	4,773.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,711.93	3/4	4,068.14	3/4	4,424.35	3/4	4,780.56	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,719.35	6	4,075.56	6	4,431.77	6	4,787.98	6		6		6		6		6		6	
1/4	3,726.77	1/4	4,082.98	1/4	4,439.19	1/4	4,795.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,734.19	1/2	4,090.40	1/2	4,446.61	1/2	4,802.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.62	3/4	4,097.82	3/4	4,454.03	3/4	4,810.24	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,749.04	7	4,105.24	7	4,461.45	7	4,817.66	7		7		7		7		7		7	
1/4	3,756.46	1/4	4,112.66	1/4	4,468.87	1/4	4,825.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,763.88	1/2	4,120.08	1/2	4,476.29	1/2	4,832.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.30	3/4	4,127.51	3/4	4,483.72	3/4	4,839.92	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,778.72	8	4,134.93	8	4,491.14	8	4,847.34	8		8		8		8		8		8	
1/4	3,786.14	1/4	4,142.35	1/4	4,498.56	1/4	4,854.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.56	1/2	4,149.77	1/2	4,505.98	1/2	4,862.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.98	3/4	4,157.19	3/4	4,513.40	3/4	4,869.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,808.40	9	4,164.61	9	4,520.82	9	4,877.03	9		9		9		9		9		9	
1/4	3,815.82	1/4	4,172.03	1/4	4,528.24	1/4	4,884.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,823.24	1/2	4,179.45	1/2	4,535.66	1/2	4,891.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,830.67	3/4	4,186.88	3/4	4,543.08	3/4	4,899.29	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,838.09	10	4,194.30	10	4,550.50	10	4,906.71	10		10		10		10		10		10	
1/4	3,845.51	1/4	4,201.72	1/4	4,557.92	1/4	4,914.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,852.93	1/2	4,209.14	1/2	4,565.34	1/2	4,921.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,860.35	3/4	4,216.56	3/4	4,572.77	3/4	4,928.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,867.77	11	4,223.98	11	4,580.19	11	4,936.40	11		11		11		11		11		11	
1/4	3,875.19	1/4	4,231.40	1/4	4,587.61	1/4	4,943.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,882.61	1/2	4,238.82	1/2	4,595.03	1/2	4,951.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,890.04	3/4	4,246.24	3/4	4,602.45	3/4	4,958.49	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

1 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	18.62	0	334.71	0	691.59	0	1,047.79	0	1,404.00	0	1,760.21	0	2,116.42	0	2,472.63	0	2,828.83	0	3,185.04
1/4	22.03	1/4	341.94	1/4	699.01	1/4	1,055.21	1/4	1,411.42	1/4	1,767.63	1/4	2,123.84	1/4	2,480.05	1/4	2,836.25	1/4	3,192.46
1/2	26.97	1/2	349.27	1/2	706.43	1/2	1,062.63	1/2	1,418.84	1/2	1,775.05	1/2	2,131.26	1/2	2,487.47	1/2	2,843.67	1/2	3,199.88
3/4	31.91	3/4	356.60	3/4	713.85	3/4	1,070.06	3/4	1,426.27	3/4	1,782.47	3/4	2,138.68	3/4	2,494.89	3/4	2,851.10	3/4	3,207.30
1	36.84	1	363.93	1	721.27	1	1,077.48	1	1,433.69	1	1,789.89	1	2,146.10	1	2,502.31	1	2,858.52	1	3,214.72
1/4	41.78	1/4	371.26	1/4	728.69	1/4	1,084.90	1/4	1,441.11	1/4	1,797.31	1/4	2,153.52	1/4	2,509.73	1/4	2,865.94	1/4	3,222.14
1/2	48.04	1/2	378.62	1/2	736.11	1/2	1,092.32	1/2	1,448.53	1/2	1,804.73	1/2	2,160.94	1/2	2,517.15	1/2	2,873.36	1/2	3,229.56
3/4	54.30	3/4	385.98	3/4	743.53	3/4	1,099.74	3/4	1,455.95	3/4	1,812.16	3/4	2,168.37	3/4	2,524.57	3/4	2,880.78	3/4	3,236.99
2	60.56	2	393.33	2	750.95	2	1,107.16	2	1,463.37	2	1,819.58	2	2,175.79	2	2,531.99	2	2,888.20	2	3,244.41
1/4	66.82	1/4	400.69	1/4	758.37	1/4	1,114.58	1/4	1,470.79	1/4	1,827.00	1/4	2,183.21	1/4	2,539.41	1/4	2,895.62	1/4	3,251.83
1/2	73.29	1/2	408.14	1/2	765.79	1/2	1,122.00	1/2	1,478.21	1/2	1,834.42	1/2	2,190.63	1/2	2,546.83	1/2	2,903.04	1/2	3,259.25
3/4	79.75	3/4	415.60	3/4	773.21	3/4	1,129.43	3/4	1,485.63	3/4	1,841.84	3/4	2,198.05	3/4	2,554.26	3/4	2,910.46	3/4	3,266.67
3	86.22	3	423.05	3	780.64	3	1,136.85	3	1,493.05	3	1,849.26	3	2,205.47	3	2,561.68	3	2,917.88	3	3,274.09
1/4	92.68	1/4	430.50	1/4	788.06	1/4	1,144.27	1/4	1,500.47	1/4	1,856.68	1/4	2,212.89	1/4	2,569.10	1/4	2,925.30	1/4	3,281.51
1/2	99.18	1/2	437.98	1/2	795.48	1/2	1,151.69	1/2	1,507.89	1/2	1,864.10	1/2	2,220.31	1/2	2,576.52	1/2	2,932.72	1/2	3,288.93
3/4	105.67	3/4	445.47	3/4	802.90	3/4	1,159.11	3/4	1,515.32	3/4	1,871.53	3/4	2,227.73	3/4	2,583.94	3/4	2,940.15	3/4	3,296.36
4	112.17	4	452.95	4	810.32	4	1,166.53	4	1,522.74	4	1,878.95	4	2,235.15	4	2,591.36	4	2,947.57	4	3,303.78
1/4	118.66	1/4	460.43	1/4	817.74	1/4	1,173.95	1/4	1,530.16	1/4	1,886.37	1/4	2,242.57	1/4	2,598.78	1/4	2,954.99	1/4	3,311.20
1/2	125.25	1/2	468.01	1/2	825.16	1/2	1,181.37	1/2	1,537.58	1/2	1,893.79	1/2	2,249.99	1/2	2,606.20	1/2	2,962.41	1/2	3,318.62
3/4	131.83	3/4	475.59	3/4	832.58	3/4	1,188.79	3/4	1,545.00	3/4	1,901.21	3/4	2,257.42	3/4	2,613.63	3/4	2,969.83	3/4	3,326.04
5	138.42	5	483.17	5	840.01	5	1,196.21	5	1,552.42	5	1,908.63	5	2,264.84	5	2,621.05	5	2,977.25	5	3,333.46
1/4	145.00	1/4	490.75	1/4	847.43	1/4	1,203.63	1/4	1,559.84	1/4	1,916.05	1/4	2,272.26	1/4	2,628.47	1/4	2,984.67	1/4	3,340.88
1/2	151.68	1/2	498.29	1/2	854.85	1/2	1,211.05	1/2	1,567.26	1/2	1,923.47	1/2	2,279.68	1/2	2,635.89	1/2	2,992.09	1/2	3,348.30
3/4	158.36	3/4	505.83	3/4	862.27	3/4	1,218.48	3/4	1,574.69	3/4	1,930.89	3/4	2,287.10	3/4	2,643.31	3/4	2,999.52	3/4	3,355.72
6	165.03	6	513.36	6	869.69	6	1,225.90	6	1,582.11	6	1,938.31	6	2,294.52	6	2,650.73	6	3,006.94	6	3,363.14
1/4	171.71	1/4	520.90	1/4	877.11	1/4	1,233.32	1/4	1,589.53	1/4	1,945.73	1/4	2,301.94	1/4	2,658.15	1/4	3,014.36	1/4	3,370.56
1/2	178.66	1/2	528.32	1/2	884.53	1/2	1,240.74	1/2	1,596.95	1/2	1,953.15	1/2	2,309.36	1/2	2,665.57	1/2	3,021.78	1/2	3,377.98
3/4	185.62	3/4	535.75	3/4	891.95	3/4	1,248.16	3/4	1,604.37	3/4	1,960.58	3/4	2,316.79	3/4	2,672.99	3/4	3,029.20	3/4	3,385.41
7	192.57	7	543.17	7	899.37	7	1,255.58	7	1,611.79	7	1,968.00	7	2,324.21	7	2,680.41	7	3,036.62	7	3,392.83
1/4	199.52	1/4	550.59	1/4	906.79	1/4	1,263.00	1/4	1,619.21	1/4	1,975.42	1/4	2,331.63	1/4	2,687.83	1/4	3,044.04	1/4	3,400.25
1/2	206.50	1/2	558.01	1/2	914.21	1/2	1,270.42	1/2	1,626.63	1/2	1,982.84	1/2	2,339.05	1/2	2,695.25	1/2	3,051.46	1/2	3,407.67
3/4	213.49	3/4	565.43	3/4	921.63	3/4	1,277.85	3/4	1,634.05	3/4	1,990.26	3/4	2,346.47	3/4	2,702.68	3/4	3,058.88	3/4	3,415.09
8	220.47	8	572.85	8	929.06	8	1,285.27	8	1,641.47	8	1,997.68	8	2,353.89	8	2,710.10	8	3,066.30	8	3,422.51
1/4	227.45	1/4	580.27	1/4	936.48	1/4	1,292.69	1/4	1,648.89	1/4	2,005.10	1/4	2,361.31	1/4	2,717.52	1/4	3,073.72	1/4	3,429.93
1/2	234.53	1/2	587.69	1/2	943.90	1/2	1,300.11	1/2	1,656.31	1/2	2,012.52	1/2	2,368.73	1/2	2,724.94	1/2	3,081.14	1/2	3,437.35
3/4	241.61	3/4	595.11	3/4	951.32	3/4	1,307.53	3/4	1,663.74	3/4	2,019.95	3/4	2,376.15	3/4	2,732.36	3/4	3,088.57	3/4	3,444.78
9	248.68	9	602.53	9	958.74	9	1,314.95	9	1,671.16	9	2,027.37	9	2,383.57	9	2,739.78	9	3,095.99	9	3,452.20
1/4	255.76	1/4	609.95	1/4	966.16	1/4	1,322.37	1/4	1,678.58	1/4	2,034.79	1/4	2,390.99	1/4	2,747.20	1/4	3,103.41	1/4	3,459.62
1/2	262.87	1/2	617.37	1/2	973.58	1/2	1,329.79	1/2	1,686.00	1/2	2,042.21	1/2	2,398.41	1/2	2,754.62	1/2	3,110.83	1/2	3,467.04
3/4	269.98	3/4	624.80	3/4	981.00	3/4	1,337.21	3/4	1,693.42	3/4	2,049.63	3/4	2,405.84	3/4	2,762.04	3/4	3,118.25	3/4	3,474.46
10	277.08	10	632.22	10	988.43	10	1,344.63	10	1,700.84	10	2,057.05	10	2,413.26	10	2,769.46	10	3,125.67	10	3,481.88
1/4	284.19	1/4	639.64	1/4	995.85	1/4	1,352.05	1/4	1,708.26	1/4	2,064.47	1/4	2,420.68	1/4	2,776.88	1/4	3,133.09	1/4	3,489.30
1/2	291.39	1/2	647.06	1/2	1,003.27	1/2	1,359.47	1/2	1,715.68	1/2	2,071.89	1/2	2,428.10	1/2	2,784.30	1/2	3,140.51	1/2	3,496.72
3/4	298.60	3/4	654.48	3/4	1,010.69	3/4	1,366.90	3/4	1,723.11	3/4	2,079.31	3/4	2,435.52	3/4	2,791.73	3/4	3,147.94	3/4	3,504.14
11	305.80	11	661.90	11	1,018.11	11	1,374.32	11	1,730.53	11	2,086.73	11	2,442.94	11	2,799.15	11	3,155.36	11	3,511.56
1/4	313.00	1/4	669.32	1/4	1,025.53	1/4	1,381.74	1/4	1,737.95	1/4	2,094.15	1/4	2,450.36	1/4	2,806.57	1/4	3,162.78	1/4	3,518.98
1/2	320.24	1/2	676.74	1/2	1,032.95	1/2	1,389.16	1/2	1,745.37	1/2	2,101.57	1/2	2,457.78	1/2	2,813.99	1/2	3,170.20	1/2	3,526.40
3/4	327.47	3/4	684.17	3/4	1,040.37	3/4	1,396.58	3/4	1,752.79	3/4	2,109.00	3/4	2,465.21	3/4	2,821.41	3/4	3,177.62	3/4	3,533.83

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 12'-06" OFF CENTERLINE AND 41'-00" 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 3081"

**1 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-03"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	3,541.25	0	3,897.46	0	4,253.66	0	4,609.87	0	4,965.82	0		0		0		0		0	
1/4	3,548.67	1/4	3,904.88	1/4	4,261.08	1/4	4,617.29	1/4	4,973.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,556.09	1/2	3,912.31	1/2	4,268.50	1/2	4,624.71	1/2	4,979.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.51	3/4	3,919.74	3/4	4,275.93	3/4	4,632.14	3/4	4,986.73	3/4		3/4		3/4		3/4		3/4	
1	3,570.93	1	3,927.16	1	4,283.35	1	4,639.56	1	4,993.52	1		1		1		1		1	
1/4	3,578.35	1/4	3,934.59	1/4	4,290.77	1/4	4,646.98	1/4	5,000.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.77	1/2	3,942.00	1/2	4,298.19	1/2	4,654.41	1/2	5,005.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,593.20	3/4	3,949.42	3/4	4,305.61	3/4	4,661.83	3/4	5,011.63	3/4		3/4		3/4		3/4		3/4	
2	3,600.62	2	3,956.83	2	4,313.03	2	4,669.26	2	5,017.28	2		2		2		2		2	
1/4	3,608.04	1/4	3,964.24	1/4	4,320.45	1/4	4,676.68	1/4	5,022.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,615.46	1/2	3,971.66	1/2	4,327.87	1/2	4,684.10	1/2	5,027.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,622.88	3/4	3,979.09	3/4	4,335.30	3/4	4,691.51	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,630.30	3	3,986.51	3	4,342.72	3	4,698.93	3		3		3		3		3		3	
1/4	3,637.72	1/4	3,993.93	1/4	4,350.14	1/4	4,706.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,645.14	1/2	4,001.35	1/2	4,357.56	1/2	4,713.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,652.56	3/4	4,008.77	3/4	4,364.98	3/4	4,721.19	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,659.98	4	4,016.19	4	4,372.40	4	4,728.61	4		4		4		4		4		4	
1/4	3,667.40	1/4	4,023.61	1/4	4,379.82	1/4	4,736.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.82	1/2	4,031.03	1/2	4,387.24	1/2	4,743.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.25	3/4	4,038.46	3/4	4,394.66	3/4	4,750.87	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,689.67	5	4,045.88	5	4,402.08	5	4,758.29	5		5		5		5		5		5	
1/4	3,697.09	1/4	4,053.30	1/4	4,409.50	1/4	4,765.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.51	1/2	4,060.72	1/2	4,416.92	1/2	4,773.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,711.93	3/4	4,068.14	3/4	4,424.35	3/4	4,780.56	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,719.35	6	4,075.56	6	4,431.77	6	4,787.98	6		6		6		6		6		6	
1/4	3,726.77	1/4	4,082.98	1/4	4,439.19	1/4	4,795.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,734.19	1/2	4,090.40	1/2	4,446.61	1/2	4,802.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.62	3/4	4,097.82	3/4	4,454.03	3/4	4,810.24	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,749.04	7	4,105.24	7	4,461.45	7	4,817.66	7		7		7		7		7		7	
1/4	3,756.46	1/4	4,112.66	1/4	4,468.87	1/4	4,825.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,763.88	1/2	4,120.08	1/2	4,476.29	1/2	4,832.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.30	3/4	4,127.51	3/4	4,483.72	3/4	4,839.92	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,778.72	8	4,134.93	8	4,491.14	8	4,847.34	8		8		8		8		8		8	
1/4	3,786.14	1/4	4,142.35	1/4	4,498.56	1/4	4,854.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.56	1/2	4,149.77	1/2	4,505.98	1/2	4,862.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.98	3/4	4,157.19	3/4	4,513.40	3/4	4,869.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,808.40	9	4,164.61	9	4,520.82	9	4,877.03	9		9		9		9		9		9	
1/4	3,815.82	1/4	4,172.03	1/4	4,528.24	1/4	4,884.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,823.24	1/2	4,179.45	1/2	4,535.66	1/2	4,891.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,830.67	3/4	4,186.88	3/4	4,543.08	3/4	4,899.29	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,838.09	10	4,194.30	10	4,550.50	10	4,906.71	10		10		10		10		10		10	
1/4	3,845.51	1/4	4,201.72	1/4	4,557.92	1/4	4,914.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,852.93	1/2	4,209.14	1/2	4,565.34	1/2	4,921.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,860.35	3/4	4,216.56	3/4	4,572.77	3/4	4,928.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,867.77	11	4,223.98	11	4,580.19	11	4,936.40	11		11		11		11		11		11	
1/4	3,875.19	1/4	4,231.40	1/4	4,587.61	1/4	4,943.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,882.61	1/2	4,238.82	1/2	4,595.03	1/2	4,951.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,890.04	3/4	4,246.24	3/4	4,602.45	3/4	4,958.49	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

2 PORT INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	18.06	0	354.10	0	714.39	0	1,074.68	0	1,434.97	0	1,795.25	0	2,155.54	0	2,515.83	0	2,876.12	0	3,236.41
1/4	21.59	1/4	361.61	1/4	721.89	1/4	1,082.18	1/4	1,442.47	1/4	1,802.76	1/4	2,163.05	1/4	2,523.33	1/4	2,883.62	1/4	3,243.91
1/2	26.87	1/2	369.12	1/2	729.40	1/2	1,089.69	1/2	1,449.98	1/2	1,810.27	1/2	2,170.56	1/2	2,530.84	1/2	2,891.13	1/2	3,251.42
3/4	32.15	3/4	376.62	3/4	736.91	3/4	1,097.20	3/4	1,457.48	3/4	1,817.77	3/4	2,178.06	3/4	2,538.35	3/4	2,898.64	3/4	3,258.92
1	37.43	1	384.13	1	744.41	1	1,104.70	1	1,464.99	1	1,825.28	1	2,185.57	1	2,545.85	1	2,906.14	1	3,266.43
1/4	42.71	1/4	391.63	1/4	751.92	1/4	1,112.21	1/4	1,472.49	1/4	1,832.78	1/4	2,193.07	1/4	2,553.36	1/4	2,913.65	1/4	3,273.93
1/2	49.52	1/2	399.14	1/2	759.43	1/2	1,119.72	1/2	1,480.00	1/2	1,840.29	1/2	2,200.58	1/2	2,560.87	1/2	2,921.16	1/2	3,281.44
3/4	56.33	3/4	406.64	3/4	766.93	3/4	1,127.22	3/4	1,487.51	3/4	1,847.80	3/4	2,208.08	3/4	2,568.37	3/4	2,928.66	3/4	3,288.95
2	63.14	2	414.15	2	774.44	2	1,134.73	2	1,495.01	2	1,855.30	2	2,215.59	2	2,575.88	2	2,936.17	2	3,296.45
1/4	69.95	1/4	421.65	1/4	781.94	1/4	1,142.23	1/4	1,502.52	1/4	1,862.81	1/4	2,223.09	1/4	2,583.38	1/4	2,943.67	1/4	3,303.96
1/2	76.88	1/2	429.16	1/2	789.45	1/2	1,149.74	1/2	1,510.03	1/2	1,870.32	1/2	2,230.60	1/2	2,590.89	1/2	2,951.18	1/2	3,311.47
3/4	83.82	3/4	436.67	3/4	796.96	3/4	1,157.24	3/4	1,517.53	3/4	1,877.82	3/4	2,238.11	3/4	2,598.40	3/4	2,958.68	3/4	3,318.97
3	90.75	3	444.17	3	804.46	3	1,164.75	3	1,525.04	3	1,885.33	3	2,245.61	3	2,605.90	3	2,966.19	3	3,326.48
1/4	97.68	1/4	451.68	1/4	811.97	1/4	1,172.25	1/4	1,532.54	1/4	1,892.83	1/4	2,253.12	1/4	2,613.41	1/4	2,973.69	1/4	3,333.98
1/2	104.62	1/2	459.19	1/2	819.48	1/2	1,179.76	1/2	1,540.05	1/2	1,900.34	1/2	2,260.63	1/2	2,620.92	1/2	2,981.20	1/2	3,341.49
3/4	111.55	3/4	466.69	3/4	826.98	3/4	1,187.27	3/4	1,547.56	3/4	1,907.84	3/4	2,268.13	3/4	2,628.42	3/4	2,988.71	3/4	3,349.00
4	118.49	4	474.20	4	834.49	4	1,194.77	4	1,555.06	4	1,915.35	4	2,275.64	4	2,635.93	4	2,996.21	4	3,356.50
1/4	125.42	1/4	481.70	1/4	841.99	1/4	1,202.28	1/4	1,562.57	1/4	1,922.85	1/4	2,283.14	1/4	2,643.43	1/4	3,003.72	1/4	3,364.01
1/2	132.35	1/2	489.21	1/2	849.50	1/2	1,209.79	1/2	1,570.08	1/2	1,930.36	1/2	2,290.65	1/2	2,650.94	1/2	3,011.23	1/2	3,371.52
3/4	139.29	3/4	496.72	3/4	857.00	3/4	1,217.29	3/4	1,577.58	3/4	1,937.87	3/4	2,298.16	3/4	2,658.44	3/4	3,018.73	3/4	3,379.02
5	146.22	5	504.22	5	864.51	5	1,224.80	5	1,585.09	5	1,945.37	5	2,305.66	5	2,665.95	5	3,026.24	5	3,386.53
1/4	153.15	1/4	511.73	1/4	872.01	1/4	1,232.30	1/4	1,592.59	1/4	1,952.88	1/4	2,313.17	1/4	2,673.45	1/4	3,033.74	1/4	3,394.03
1/2	160.23	1/2	519.24	1/2	879.52	1/2	1,239.81	1/2	1,600.10	1/2	1,960.39	1/2	2,320.68	1/2	2,680.96	1/2	3,041.25	1/2	3,401.54
3/4	167.31	3/4	526.74	3/4	887.03	3/4	1,247.32	3/4	1,607.60	3/4	1,967.89	3/4	2,328.18	3/4	2,688.47	3/4	3,048.76	3/4	3,409.04
6	174.38	6	534.25	6	894.53	6	1,254.82	6	1,615.11	6	1,975.40	6	2,335.69	6	2,695.97	6	3,056.26	6	3,416.55
1/4	181.46	1/4	541.75	1/4	902.04	1/4	1,262.33	1/4	1,622.61	1/4	1,982.90	1/4	2,343.19	1/4	2,703.48	1/4	3,063.77	1/4	3,424.05
1/2	188.97	1/2	549.26	1/2	909.55	1/2	1,269.84	1/2	1,630.12	1/2	1,990.41	1/2	2,350.70	1/2	2,710.99	1/2	3,071.28	1/2	3,431.56
3/4	196.48	3/4	556.76	3/4	917.05	3/4	1,277.34	3/4	1,637.63	3/4	1,997.92	3/4	2,358.20	3/4	2,718.49	3/4	3,078.78	3/4	3,439.07
7	203.98	7	564.27	7	924.56	7	1,284.85	7	1,645.13	7	2,005.42	7	2,365.71	7	2,726.00	7	3,086.29	7	3,446.57
1/4	211.49	1/4	571.77	1/4	932.06	1/4	1,292.35	1/4	1,652.64	1/4	2,012.93	1/4	2,373.21	1/4	2,733.50	1/4	3,093.79	1/4	3,454.08
1/2	219.00	1/2	579.28	1/2	939.57	1/2	1,299.86	1/2	1,660.15	1/2	2,020.44	1/2	2,380.72	1/2	2,741.01	1/2	3,101.30	1/2	3,461.59
3/4	226.50	3/4	586.79	3/4	947.08	3/4	1,307.36	3/4	1,667.65	3/4	2,027.94	3/4	2,388.23	3/4	2,748.52	3/4	3,108.80	3/4	3,469.09
8	234.01	8	594.29	8	954.58	8	1,314.87	8	1,675.16	8	2,035.45	8	2,395.73	8	2,756.02	8	3,116.31	8	3,476.60
1/4	241.51	1/4	601.80	1/4	962.09	1/4	1,322.37	1/4	1,682.66	1/4	2,042.95	1/4	2,403.24	1/4	2,763.53	1/4	3,123.81	1/4	3,484.10
1/2	249.02	1/2	609.31	1/2	969.60	1/2	1,329.88	1/2	1,690.17	1/2	2,050.46	1/2	2,410.75	1/2	2,771.04	1/2	3,131.32	1/2	3,491.61
3/4	256.52	3/4	616.81	3/4	977.10	3/4	1,337.39	3/4	1,697.68	3/4	2,057.96	3/4	2,418.25	3/4	2,778.54	3/4	3,138.83	3/4	3,499.12
9	264.03	9	624.32	9	984.61	9	1,344.89	9	1,705.18	9	2,065.47	9	2,425.76	9	2,786.05	9	3,146.33	9	3,506.62
1/4	271.53	1/4	631.82	1/4	992.11	1/4	1,352.40	1/4	1,712.69	1/4	2,072.97	1/4	2,433.26	1/4	2,793.55	1/4	3,153.84	1/4	3,514.13
1/2	279.04	1/2	639.33	1/2	999.62	1/2	1,359.91	1/2	1,720.20	1/2	2,080.48	1/2	2,440.77	1/2	2,801.06	1/2	3,161.35	1/2	3,521.64
3/4	286.55	3/4	646.84	3/4	1,007.12	3/4	1,367.41	3/4	1,727.70	3/4	2,087.99	3/4	2,448.28	3/4	2,808.56	3/4	3,168.85	3/4	3,529.14
10	294.05	10	654.34	10	1,014.63	10	1,374.92	10	1,735.21	10	2,095.49	10	2,455.78	10	2,816.07	10	3,176.36	10	3,536.65
1/4	301.56	1/4	661.85	1/4	1,022.13	1/4	1,382.42	1/4	1,742.71	1/4	2,103.00	1/4	2,463.29	1/4	2,823.57	1/4	3,183.86	1/4	3,544.15
1/2	309.07	1/2	669.36	1/2	1,029.64	1/2	1,389.93	1/2	1,750.22	1/2	2,110.51	1/2	2,470.80	1/2	2,831.08	1/2	3,191.37	1/2	3,551.66
3/4	316.57	3/4	676.86	3/4	1,037.15	3/4	1,397.44	3/4	1,757.72	3/4	2,118.01	3/4	2,478.30	3/4	2,838.59	3/4	3,198.88	3/4	3,559.16
11	324.08	11	684.37	11	1,044.65	11	1,404.94	11	1,765.23	11	2,125.52	11	2,485.81	11	2,846.09	11	3,206.38	11	3,566.67
1/4	331.58	1/4	691.87	1/4	1,052.16	1/4	1,412.45	1/4	1,772.73	1/4	2,133.02	1/4	2,493.31	1/4	2,853.60	1/4	3,213.89	1/4	3,574.17
1/2	339.09	1/2	699.38	1/2	1,059.67	1/2	1,419.96	1/2	1,780.24	1/2	2,140.53	1/2	2,500.82	1/2	2,861.11	1/2	3,221.40	1/2	3,581.68
3/4	346.60	3/4	706.88	3/4	1,067.17	3/4	1,427.46	3/4	1,787.75	3/4	2,148.04	3/4	2,508.32	3/4	2,868.61	3/4	3,228.90	3/4	3,589.19

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 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

2 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	3,596.69	0	3,956.98	0	4,317.27	0	4,677.56	0	5,020.70	0		0		0		0		0	
1/4	3,604.20	1/4	3,964.49	1/4	4,324.77	1/4	4,685.06	1/4	5,027.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.71	1/2	3,972.00	1/2	4,332.28	1/2	4,692.29	1/2	5,034.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.21	3/4	3,979.50	3/4	4,339.79	3/4	4,699.53	3/4	5,040.42	3/4		3/4		3/4		3/4		3/4	
1	3,626.72	1	3,987.01	1	4,347.29	1	4,706.76	1	5,046.77	1		1		1		1		1	
1/4	3,634.22	1/4	3,994.51	1/4	4,354.80	1/4	4,713.99	1/4	5,053.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.73	1/2	4,002.02	1/2	4,362.31	1/2	4,721.13	1/2	5,058.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.24	3/4	4,009.52	3/4	4,369.81	3/4	4,728.28	3/4	5,063.77	3/4		3/4		3/4		3/4		3/4	
2	3,656.74	2	4,017.03	2	4,377.32	2	4,735.42	2	5,069.10	2		2		2		2		2	
1/4	3,664.25	1/4	4,024.53	1/4	4,384.82	1/4	4,742.56	1/4	5,074.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.76	1/2	4,032.04	1/2	4,392.33	1/2	4,749.70	1/2	5,078.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,679.26	3/4	4,039.55	3/4	4,399.84	3/4	4,756.85	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,686.77	3	4,047.05	3	4,407.34	3	4,763.99	3		3		3		3		3		3	
1/4	3,694.27	1/4	4,054.56	1/4	4,414.85	1/4	4,771.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,701.78	1/2	4,062.07	1/2	4,422.36	1/2	4,778.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.28	3/4	4,069.57	3/4	4,429.86	3/4	4,785.42	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,716.79	4	4,077.08	4	4,437.37	4	4,792.56	4		4		4		4		4		4	
1/4	3,724.29	1/4	4,084.58	1/4	4,444.87	1/4	4,799.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,731.80	1/2	4,092.09	1/2	4,452.38	1/2	4,806.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,739.31	3/4	4,099.60	3/4	4,459.88	3/4	4,813.99	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,746.81	5	4,107.10	5	4,467.39	5	4,821.13	5		5		5		5		5		5	
1/4	3,754.32	1/4	4,114.61	1/4	4,474.89	1/4	4,828.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,761.83	1/2	4,122.12	1/2	4,482.40	1/2	4,835.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,769.33	3/4	4,129.62	3/4	4,489.91	3/4	4,842.55	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,776.84	6	4,137.13	6	4,497.41	6	4,849.69	6		6		6		6		6		6	
1/4	3,784.34	1/4	4,144.63	1/4	4,504.92	1/4	4,856.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,791.85	1/2	4,152.14	1/2	4,512.43	1/2	4,863.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,799.36	3/4	4,159.64	3/4	4,519.93	3/4	4,871.12	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,806.86	7	4,167.15	7	4,527.44	7	4,878.26	7		7		7		7		7		7	
1/4	3,814.37	1/4	4,174.65	1/4	4,534.94	1/4	4,885.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,821.88	1/2	4,182.16	1/2	4,542.45	1/2	4,892.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,829.38	3/4	4,189.67	3/4	4,549.96	3/4	4,899.69	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,836.89	8	4,197.17	8	4,557.46	8	4,906.83	8		8		8		8		8		8	
1/4	3,844.39	1/4	4,204.68	1/4	4,564.97	1/4	4,913.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,851.90	1/2	4,212.19	1/2	4,572.48	1/2	4,921.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,859.40	3/4	4,219.69	3/4	4,579.98	3/4	4,928.26	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,866.91	9	4,227.20	9	4,587.49	9	4,935.40	9		9		9		9		9		9	
1/4	3,874.41	1/4	4,234.70	1/4	4,594.99	1/4	4,942.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,881.92	1/2	4,242.21	1/2	4,602.50	1/2	4,949.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,889.43	3/4	4,249.72	3/4	4,610.00	3/4	4,956.83	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,896.93	10	4,257.22	10	4,617.51	10	4,963.97	10		10		10		10		10		10	
1/4	3,904.44	1/4	4,264.73	1/4	4,625.01	1/4	4,971.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.95	1/2	4,272.24	1/2	4,632.52	1/2	4,978.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,919.45	3/4	4,279.74	3/4	4,640.03	3/4	4,985.39	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,926.96	11	4,287.25	11	4,647.53	11	4,992.53	11		11		11		11		11		11	
1/4	3,934.46	1/4	4,294.75	1/4	4,655.04	1/4	4,999.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.97	1/2	4,302.26	1/2	4,662.55	1/2	5,006.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.48	3/4	4,309.76	3/4	4,670.05	3/4	5,013.95	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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RECALCULATED: 12/03/2021 CL
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PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

2 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	18.06	0	354.10	0	714.39	0	1,074.68	0	1,434.97	0	1,795.25	0	2,155.54	0	2,515.83	0	2,876.12	0	3,236.41
1/4	21.59	1/4	361.61	1/4	721.89	1/4	1,082.18	1/4	1,442.47	1/4	1,802.76	1/4	2,163.05	1/4	2,523.33	1/4	2,883.62	1/4	3,243.91
1/2	26.87	1/2	369.12	1/2	729.40	1/2	1,089.69	1/2	1,449.98	1/2	1,810.27	1/2	2,170.56	1/2	2,530.84	1/2	2,891.13	1/2	3,251.42
3/4	32.15	3/4	376.62	3/4	736.91	3/4	1,097.20	3/4	1,457.48	3/4	1,817.77	3/4	2,178.06	3/4	2,538.35	3/4	2,898.64	3/4	3,258.92
1	37.43	1	384.13	1	744.41	1	1,104.70	1	1,464.99	1	1,825.28	1	2,185.57	1	2,545.85	1	2,906.14	1	3,266.43
1/4	42.71	1/4	391.63	1/4	751.92	1/4	1,112.21	1/4	1,472.49	1/4	1,832.78	1/4	2,193.07	1/4	2,553.36	1/4	2,913.65	1/4	3,273.93
1/2	49.52	1/2	399.14	1/2	759.43	1/2	1,119.72	1/2	1,480.00	1/2	1,840.29	1/2	2,200.58	1/2	2,560.87	1/2	2,921.16	1/2	3,281.44
3/4	56.33	3/4	406.64	3/4	766.93	3/4	1,127.22	3/4	1,487.51	3/4	1,847.80	3/4	2,208.08	3/4	2,568.37	3/4	2,928.66	3/4	3,288.95
2	63.14	2	414.15	2	774.44	2	1,134.73	2	1,495.01	2	1,855.30	2	2,215.59	2	2,575.88	2	2,936.17	2	3,296.45
1/4	69.95	1/4	421.65	1/4	781.94	1/4	1,142.23	1/4	1,502.52	1/4	1,862.81	1/4	2,223.09	1/4	2,583.38	1/4	2,943.67	1/4	3,303.96
1/2	76.88	1/2	429.16	1/2	789.45	1/2	1,149.74	1/2	1,510.03	1/2	1,870.32	1/2	2,230.60	1/2	2,590.89	1/2	2,951.18	1/2	3,311.47
3/4	83.82	3/4	436.67	3/4	796.96	3/4	1,157.24	3/4	1,517.53	3/4	1,877.82	3/4	2,238.11	3/4	2,598.40	3/4	2,958.68	3/4	3,318.97
3	90.75	3	444.17	3	804.46	3	1,164.75	3	1,525.04	3	1,885.33	3	2,245.61	3	2,605.90	3	2,966.19	3	3,326.48
1/4	97.68	1/4	451.68	1/4	811.97	1/4	1,172.25	1/4	1,532.54	1/4	1,892.83	1/4	2,253.12	1/4	2,613.41	1/4	2,973.69	1/4	3,333.98
1/2	104.62	1/2	459.19	1/2	819.48	1/2	1,179.76	1/2	1,540.05	1/2	1,900.34	1/2	2,260.63	1/2	2,620.92	1/2	2,981.20	1/2	3,341.49
3/4	111.55	3/4	466.69	3/4	826.98	3/4	1,187.27	3/4	1,547.56	3/4	1,907.84	3/4	2,268.13	3/4	2,628.42	3/4	2,988.71	3/4	3,349.00
4	118.49	4	474.20	4	834.49	4	1,194.77	4	1,555.06	4	1,915.35	4	2,275.64	4	2,635.93	4	2,996.21	4	3,356.50
1/4	125.42	1/4	481.70	1/4	841.99	1/4	1,202.28	1/4	1,562.57	1/4	1,922.85	1/4	2,283.14	1/4	2,643.43	1/4	3,003.72	1/4	3,364.01
1/2	132.35	1/2	489.21	1/2	849.50	1/2	1,209.79	1/2	1,570.08	1/2	1,930.36	1/2	2,290.65	1/2	2,650.94	1/2	3,011.23	1/2	3,371.52
3/4	139.29	3/4	496.72	3/4	857.00	3/4	1,217.29	3/4	1,577.58	3/4	1,937.87	3/4	2,298.16	3/4	2,658.44	3/4	3,018.73	3/4	3,379.02
5	146.22	5	504.22	5	864.51	5	1,224.80	5	1,585.09	5	1,945.37	5	2,305.66	5	2,665.95	5	3,026.24	5	3,386.53
1/4	153.15	1/4	511.73	1/4	872.01	1/4	1,232.30	1/4	1,592.59	1/4	1,952.88	1/4	2,313.17	1/4	2,673.45	1/4	3,033.74	1/4	3,394.03
1/2	160.23	1/2	519.24	1/2	879.52	1/2	1,239.81	1/2	1,600.10	1/2	1,960.39	1/2	2,320.68	1/2	2,680.96	1/2	3,041.25	1/2	3,401.54
3/4	167.31	3/4	526.74	3/4	887.03	3/4	1,247.32	3/4	1,607.60	3/4	1,967.89	3/4	2,328.18	3/4	2,688.47	3/4	3,048.76	3/4	3,409.04
6	174.38	6	534.25	6	894.53	6	1,254.82	6	1,615.11	6	1,975.40	6	2,335.69	6	2,695.97	6	3,056.26	6	3,416.55
1/4	181.46	1/4	541.75	1/4	902.04	1/4	1,262.33	1/4	1,622.61	1/4	1,982.90	1/4	2,343.19	1/4	2,703.48	1/4	3,063.77	1/4	3,424.05
1/2	188.97	1/2	549.26	1/2	909.55	1/2	1,269.84	1/2	1,630.12	1/2	1,990.41	1/2	2,350.70	1/2	2,710.99	1/2	3,071.28	1/2	3,431.56
3/4	196.48	3/4	556.76	3/4	917.05	3/4	1,277.34	3/4	1,637.63	3/4	1,997.92	3/4	2,358.20	3/4	2,718.49	3/4	3,078.78	3/4	3,439.07
7	203.98	7	564.27	7	924.56	7	1,284.85	7	1,645.13	7	2,005.42	7	2,365.71	7	2,726.00	7	3,086.29	7	3,446.57
1/4	211.49	1/4	571.77	1/4	932.06	1/4	1,292.35	1/4	1,652.64	1/4	2,012.93	1/4	2,373.21	1/4	2,733.50	1/4	3,093.79	1/4	3,454.08
1/2	219.00	1/2	579.28	1/2	939.57	1/2	1,299.86	1/2	1,660.15	1/2	2,020.44	1/2	2,380.72	1/2	2,741.01	1/2	3,101.30	1/2	3,461.59
3/4	226.50	3/4	586.79	3/4	947.08	3/4	1,307.36	3/4	1,667.65	3/4	2,027.94	3/4	2,388.23	3/4	2,748.52	3/4	3,108.80	3/4	3,469.09
8	234.01	8	594.29	8	954.58	8	1,314.87	8	1,675.16	8	2,035.45	8	2,395.73	8	2,756.02	8	3,116.31	8	3,476.60
1/4	241.51	1/4	601.80	1/4	962.09	1/4	1,322.37	1/4	1,682.66	1/4	2,042.95	1/4	2,403.24	1/4	2,763.53	1/4	3,123.81	1/4	3,484.10
1/2	249.02	1/2	609.31	1/2	969.60	1/2	1,329.88	1/2	1,690.17	1/2	2,050.46	1/2	2,410.75	1/2	2,771.04	1/2	3,131.32	1/2	3,491.61
3/4	256.52	3/4	616.81	3/4	977.10	3/4	1,337.39	3/4	1,697.68	3/4	2,057.96	3/4	2,418.25	3/4	2,778.54	3/4	3,138.83	3/4	3,499.12
9	264.03	9	624.32	9	984.61	9	1,344.89	9	1,705.18	9	2,065.47	9	2,425.76	9	2,786.05	9	3,146.33	9	3,506.62
1/4	271.53	1/4	631.82	1/4	992.11	1/4	1,352.40	1/4	1,712.69	1/4	2,072.97	1/4	2,433.26	1/4	2,793.55	1/4	3,153.84	1/4	3,514.13
1/2	279.04	1/2	639.33	1/2	999.62	1/2	1,359.91	1/2	1,720.20	1/2	2,080.48	1/2	2,440.77	1/2	2,801.06	1/2	3,161.35	1/2	3,521.64
3/4	286.55	3/4	646.84	3/4	1,007.12	3/4	1,367.41	3/4	1,727.70	3/4	2,087.99	3/4	2,448.28	3/4	2,808.56	3/4	3,168.85	3/4	3,529.14
10	294.05	10	654.34	10	1,014.63	10	1,374.92	10	1,735.21	10	2,095.49	10	2,455.78	10	2,816.07	10	3,176.36	10	3,536.65
1/4	301.56	1/4	661.85	1/4	1,022.13	1/4	1,382.42	1/4	1,742.71	1/4	2,103.00	1/4	2,463.29	1/4	2,823.57	1/4	3,183.86	1/4	3,544.15
1/2	309.07	1/2	669.36	1/2	1,029.64	1/2	1,389.93	1/2	1,750.22	1/2	2,110.51	1/2	2,470.80	1/2	2,831.08	1/2	3,191.37	1/2	3,551.66
3/4	316.57	3/4	676.86	3/4	1,037.15	3/4	1,397.44	3/4	1,757.72	3/4	2,118.01	3/4	2,478.30	3/4	2,838.59	3/4	3,198.88	3/4	3,559.16
11	324.08	11	684.37	11	1,044.65	11	1,404.94	11	1,765.23	11	2,125.52	11	2,485.81	11	2,846.09	11	3,206.38	11	3,566.67
1/4	331.58	1/4	691.87	1/4	1,052.16	1/4	1,412.45	1/4	1,772.73	1/4	2,133.02	1/4	2,493.31	1/4	2,853.60	1/4	3,213.89	1/4	3,574.17
1/2	339.09	1/2	699.38	1/2	1,059.67	1/2	1,419.96	1/2	1,780.24	1/2	2,140.53	1/2	2,500.82	1/2	2,861.11	1/2	3,221.40	1/2	3,581.68
3/4	346.60	3/4	706.88	3/4	1,067.17	3/4	1,427.46	3/4	1,787.75	3/4	2,148.04	3/4	2,508.32	3/4	2,868.61	3/4	3,228.90	3/4	3,589.19

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 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

**2 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-03"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	3,596.69	0	3,956.98	0	4,317.27	0	4,677.56	0	5,020.70	0		0		0		0		0	
1/4	3,604.20	1/4	3,964.49	1/4	4,324.77	1/4	4,685.06	1/4	5,027.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.71	1/2	3,972.00	1/2	4,332.28	1/2	4,692.29	1/2	5,034.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.21	3/4	3,979.50	3/4	4,339.79	3/4	4,699.53	3/4	5,040.42	3/4		3/4		3/4		3/4		3/4	
1	3,626.72	1	3,987.01	1	4,347.29	1	4,706.76	1	5,046.77	1		1		1		1		1	
1/4	3,634.22	1/4	3,994.51	1/4	4,354.80	1/4	4,713.99	1/4	5,053.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.73	1/2	4,002.02	1/2	4,362.31	1/2	4,721.13	1/2	5,058.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.24	3/4	4,009.52	3/4	4,369.81	3/4	4,728.28	3/4	5,063.77	3/4		3/4		3/4		3/4		3/4	
2	3,656.74	2	4,017.03	2	4,377.32	2	4,735.42	2	5,069.10	2		2		2		2		2	
1/4	3,664.25	1/4	4,024.53	1/4	4,384.82	1/4	4,742.56	1/4	5,074.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.76	1/2	4,032.04	1/2	4,392.33	1/2	4,749.70	1/2	5,078.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,679.26	3/4	4,039.55	3/4	4,399.84	3/4	4,756.85	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,686.77	3	4,047.05	3	4,407.34	3	4,763.99	3		3		3		3		3		3	
1/4	3,694.27	1/4	4,054.56	1/4	4,414.85	1/4	4,771.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,701.78	1/2	4,062.07	1/2	4,422.36	1/2	4,778.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.28	3/4	4,069.57	3/4	4,429.86	3/4	4,785.42	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,716.79	4	4,077.08	4	4,437.37	4	4,792.56	4		4		4		4		4		4	
1/4	3,724.29	1/4	4,084.58	1/4	4,444.87	1/4	4,799.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,731.80	1/2	4,092.09	1/2	4,452.38	1/2	4,806.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,739.31	3/4	4,099.60	3/4	4,459.88	3/4	4,813.99	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,746.81	5	4,107.10	5	4,467.39	5	4,821.13	5		5		5		5		5		5	
1/4	3,754.32	1/4	4,114.61	1/4	4,474.89	1/4	4,828.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,761.83	1/2	4,122.12	1/2	4,482.40	1/2	4,835.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,769.33	3/4	4,129.62	3/4	4,489.91	3/4	4,842.55	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,776.84	6	4,137.13	6	4,497.41	6	4,849.69	6		6		6		6		6		6	
1/4	3,784.34	1/4	4,144.63	1/4	4,504.92	1/4	4,856.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,791.85	1/2	4,152.14	1/2	4,512.43	1/2	4,863.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,799.36	3/4	4,159.64	3/4	4,519.93	3/4	4,871.12	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,806.86	7	4,167.15	7	4,527.44	7	4,878.26	7		7		7		7		7		7	
1/4	3,814.37	1/4	4,174.65	1/4	4,534.94	1/4	4,885.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,821.88	1/2	4,182.16	1/2	4,542.45	1/2	4,892.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,829.38	3/4	4,189.67	3/4	4,549.96	3/4	4,899.69	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,836.89	8	4,197.17	8	4,557.46	8	4,906.83	8		8		8		8		8		8	
1/4	3,844.39	1/4	4,204.68	1/4	4,564.97	1/4	4,913.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,851.90	1/2	4,212.19	1/2	4,572.48	1/2	4,921.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,859.40	3/4	4,219.69	3/4	4,579.98	3/4	4,928.26	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,866.91	9	4,227.20	9	4,587.49	9	4,935.40	9		9		9		9		9		9	
1/4	3,874.41	1/4	4,234.70	1/4	4,594.99	1/4	4,942.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,881.92	1/2	4,242.21	1/2	4,602.50	1/2	4,949.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,889.43	3/4	4,249.72	3/4	4,610.00	3/4	4,956.83	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,896.93	10	4,257.22	10	4,617.51	10	4,963.97	10		10		10		10		10		10	
1/4	3,904.44	1/4	4,264.73	1/4	4,625.01	1/4	4,971.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.95	1/2	4,272.24	1/2	4,632.52	1/2	4,978.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,919.45	3/4	4,279.74	3/4	4,640.03	3/4	4,985.39	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,926.96	11	4,287.25	11	4,647.53	11	4,992.53	11		11		11		11		11		11	
1/4	3,934.46	1/4	4,294.75	1/4	4,655.04	1/4	4,999.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.97	1/2	4,302.26	1/2	4,662.55	1/2	5,006.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.48	3/4	4,309.76	3/4	4,670.05	3/4	5,013.69	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021





BARGE "HFL 3081"

3 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	19.31	0	367.59	0	732.56	0	1,096.18	0	1,459.41	0	1,822.64	0	2,185.88	0	2,549.11	0	2,912.34	0	3,275.58
1/4	23.10	1/4	375.20	1/4	740.14	1/4	1,103.75	1/4	1,466.98	1/4	1,830.21	1/4	2,193.45	1/4	2,556.68	1/4	2,919.91	1/4	3,283.14
1/2	28.70	1/2	382.81	1/2	747.72	1/2	1,111.32	1/2	1,474.55	1/2	1,837.78	1/2	2,201.02	1/2	2,564.25	1/2	2,927.48	1/2	3,290.71
3/4	34.30	3/4	390.42	3/4	755.30	3/4	1,118.89	3/4	1,482.12	3/4	1,845.35	3/4	2,208.59	3/4	2,571.82	3/4	2,935.05	3/4	3,298.28
1	39.90	1	398.02	1	762.87	1	1,126.45	1	1,489.68	1	1,852.91	1	2,216.15	1	2,579.38	1	2,942.61	1	3,305.84
1/4	45.50	1/4	405.63	1/4	770.45	1/4	1,134.02	1/4	1,497.25	1/4	1,860.48	1/4	2,223.72	1/4	2,586.95	1/4	2,950.18	1/4	3,313.41
1/2	52.74	1/2	413.24	1/2	778.03	1/2	1,141.59	1/2	1,504.82	1/2	1,868.05	1/2	2,231.29	1/2	2,594.52	1/2	2,957.75	1/2	3,320.81
3/4	59.97	3/4	420.85	3/4	785.61	3/4	1,149.16	3/4	1,512.39	3/4	1,875.62	3/4	2,238.86	3/4	2,602.09	3/4	2,965.32	3/4	3,328.21
2	67.21	2	428.46	2	793.18	2	1,156.72	2	1,519.95	2	1,883.18	2	2,246.42	2	2,609.65	2	2,972.88	2	3,335.60
1/4	74.44	1/4	436.07	1/4	800.76	1/4	1,164.29	1/4	1,527.52	1/4	1,890.75	1/4	2,253.99	1/4	2,617.22	1/4	2,980.45	1/4	3,343.00
1/2	81.81	1/2	443.68	1/2	808.34	1/2	1,171.86	1/2	1,535.09	1/2	1,898.32	1/2	2,261.56	1/2	2,624.79	1/2	2,988.02	1/2	3,350.74
3/4	89.18	3/4	451.29	3/4	815.91	3/4	1,179.43	3/4	1,542.66	3/4	1,905.89	3/4	2,269.12	3/4	2,632.36	3/4	2,995.59	3/4	3,358.48
3	96.54	3	458.89	3	823.49	3	1,186.99	3	1,550.22	3	1,913.45	3	2,276.69	3	2,639.92	3	3,003.15	3	3,366.21
1/4	103.91	1/4	466.50	1/4	831.06	1/4	1,194.56	1/4	1,557.79	1/4	1,921.02	1/4	2,284.25	1/4	2,647.49	1/4	3,010.72	1/4	3,373.95
1/2	111.28	1/2	474.11	1/2	838.64	1/2	1,202.13	1/2	1,565.36	1/2	1,928.59	1/2	2,291.82	1/2	2,655.06	1/2	3,018.29	1/2	3,381.52
3/4	118.65	3/4	481.72	3/4	846.22	3/4	1,209.70	3/4	1,572.93	3/4	1,936.16	3/4	2,299.39	3/4	2,662.63	3/4	3,025.86	3/4	3,389.09
4	126.02	4	489.33	4	853.79	4	1,217.26	4	1,580.49	4	1,943.72	4	2,306.95	4	2,670.19	4	3,033.42	4	3,396.65
1/4	133.39	1/4	496.94	1/4	861.37	1/4	1,224.83	1/4	1,588.06	1/4	1,951.29	1/4	2,314.52	1/4	2,677.76	1/4	3,040.99	1/4	3,404.22
1/2	140.76	1/2	504.55	1/2	868.95	1/2	1,232.40	1/2	1,595.63	1/2	1,958.86	1/2	2,322.09	1/2	2,685.33	1/2	3,048.56	1/2	3,411.79
3/4	148.13	3/4	512.16	3/4	876.53	3/4	1,239.97	3/4	1,603.20	3/4	1,966.43	3/4	2,329.66	3/4	2,692.90	3/4	3,056.13	3/4	3,419.36
5	155.49	5	519.77	5	884.10	5	1,247.53	5	1,610.76	5	1,973.99	5	2,337.22	5	2,700.46	5	3,063.69	5	3,426.92
1/4	162.86	1/4	527.38	1/4	891.68	1/4	1,255.10	1/4	1,618.33	1/4	1,981.56	1/4	2,344.79	1/4	2,708.03	1/4	3,071.26	1/4	3,434.49
1/2	170.29	1/2	534.99	1/2	899.26	1/2	1,262.67	1/2	1,625.90	1/2	1,989.13	1/2	2,352.36	1/2	2,715.60	1/2	3,078.83	1/2	3,442.00
3/4	177.72	3/4	542.60	3/4	906.84	3/4	1,270.23	3/4	1,633.47	3/4	1,996.70	3/4	2,359.93	3/4	2,723.17	3/4	3,086.40	3/4	3,449.51
6	185.15	6	550.20	6	914.41	6	1,277.80	6	1,641.03	6	2,004.26	6	2,367.49	6	2,730.73	6	3,093.96	6	3,457.01
1/4	192.58	1/4	557.81	1/4	921.99	1/4	1,285.36	1/4	1,648.60	1/4	2,011.83	1/4	2,375.06	1/4	2,738.30	1/4	3,101.53	1/4	3,464.52
1/2	200.19	1/2	565.42	1/2	929.57	1/2	1,292.93	1/2	1,656.17	1/2	2,019.40	1/2	2,382.63	1/2	2,745.87	1/2	3,109.10	1/2	3,471.79
3/4	207.80	3/4	573.03	3/4	937.15	3/4	1,300.50	3/4	1,663.74	3/4	2,026.97	3/4	2,390.20	3/4	2,753.44	3/4	3,116.67	3/4	3,479.07
7	215.41	7	580.64	7	944.72	7	1,308.06	7	1,671.30	7	2,034.53	7	2,397.76	7	2,761.00	7	3,124.23	7	3,486.34
1/4	223.02	1/4	588.25	1/4	952.30	1/4	1,315.63	1/4	1,678.87	1/4	2,042.10	1/4	2,405.33	1/4	2,768.57	1/4	3,131.80	1/4	3,493.61
1/2	230.63	1/2	595.86	1/2	959.88	1/2	1,323.20	1/2	1,686.44	1/2	2,049.67	1/2	2,412.90	1/2	2,776.14	1/2	3,139.37	1/2	3,500.54
3/4	238.24	3/4	603.47	3/4	967.45	3/4	1,330.77	3/4	1,694.01	3/4	2,057.24	3/4	2,420.47	3/4	2,783.70	3/4	3,146.94	3/4	3,507.47
8	245.84	8	611.07	8	975.03	8	1,338.33	8	1,701.57	8	2,064.80	8	2,428.03	8	2,791.27	8	3,154.50	8	3,514.39
1/4	253.45	1/4	618.68	1/4	982.60	1/4	1,345.90	1/4	1,709.14	1/4	2,072.37	1/4	2,435.60	1/4	2,798.83	1/4	3,162.07	1/4	3,521.32
1/2	261.06	1/2	626.29	1/2	990.18	1/2	1,353.47	1/2	1,716.71	1/2	2,079.94	1/2	2,443.17	1/2	2,806.40	1/2	3,169.64	1/2	3,527.90
3/4	268.67	3/4	633.90	3/4	997.76	3/4	1,361.04	3/4	1,724.28	3/4	2,087.51	3/4	2,450.74	3/4	2,813.97	3/4	3,177.21	3/4	3,534.48
9	276.28	9	641.51	9	1,005.33	9	1,368.60	9	1,731.84	9	2,095.07	9	2,458.30	9	2,821.53	9	3,184.77	9	3,541.06
1/4	283.89	1/4	649.12	1/4	1,012.91	1/4	1,376.17	1/4	1,739.41	1/4	2,102.64	1/4	2,465.87	1/4	2,829.10	1/4	3,192.34	1/4	3,547.64
1/2	291.50	1/2	656.72	1/2	1,020.49	1/2	1,383.74	1/2	1,746.98	1/2	2,110.21	1/2	2,473.44	1/2	2,836.67	1/2	3,199.91	1/2	3,553.88
3/4	299.11	3/4	664.32	3/4	1,028.06	3/4	1,391.31	3/4	1,754.54	3/4	2,117.78	3/4	2,481.01	3/4	2,844.24	3/4	3,207.48	3/4	3,560.11
10	306.71	10	671.92	10	1,035.64	10	1,398.87	10	1,762.11	10	2,125.34	10	2,488.57	10	2,851.80	10	3,215.04	10	3,566.35
1/4	314.32	1/4	679.52	1/4	1,043.21	1/4	1,406.44	1/4	1,769.67	1/4	2,132.91	1/4	2,496.14	1/4	2,859.37	1/4	3,222.61	1/4	3,572.58
1/2	321.93	1/2	687.10	1/2	1,050.78	1/2	1,414.01	1/2	1,777.24	1/2	2,140.48	1/2	2,503.71	1/2	2,866.94	1/2	3,230.18	1/2	3,578.47
3/4	329.54	3/4	694.68	3/4	1,058.35	3/4	1,421.58	3/4	1,784.81	3/4	2,148.05	3/4	2,511.28	3/4	2,874.51	3/4	3,237.75	3/4	3,584.36
11	337.15	11	702.25	11	1,065.91	11	1,429.14	11	1,792.37	11	2,155.61	11	2,518.84	11	2,882.07	11	3,245.31	11	3,590.25
1/4	344.76	1/4	709.83	1/4	1,073.48	1/4	1,436.71	1/4	1,799.94	1/4	2,163.18	1/4	2,526.41	1/4	2,889.64	1/4	3,252.88	1/4	3,596.14
1/2	352.37	1/2	717.41	1/2	1,081.05	1/2	1,444.28	1/2	1,807.51	1/2	2,170.75	1/2	2,533.98	1/2	2,897.21	1/2	3,260.45	1/2	3,601.71
3/4	359.98	3/4	724.99	3/4	1,088.62	3/4	1,451.85	3/4	1,815.08	3/4	2,178.32	3/4	2,541.55	3/4	2,904.78	3/4	3,268.01	3/4	3,607.27

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 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

3 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 15'-03 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	3,612.84	0	3,866.88	0	4,120.51	0	4,374.14	0	4,627.48	0		0		0		0		0	
1/4	3,618.40	1/4	3,872.16	1/4	4,125.79	1/4	4,379.42	1/4	4,632.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.72	1/2	3,877.44	1/2	4,131.08	1/2	4,384.71	1/2	4,637.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.03	3/4	3,882.73	3/4	4,136.36	3/4	4,389.99	3/4	4,642.05	3/4		3/4		3/4		3/4		3/4	
1	3,634.35	1	3,888.01	1	4,141.65	1	4,395.28	1	4,646.75	1		1		1		1		1	
1/4	3,639.66	1/4	3,893.29	1/4	4,146.93	1/4	4,400.56	1/4	4,651.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,644.95	1/2	3,898.58	1/2	4,152.21	1/2	4,405.84	1/2	4,655.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,650.23	3/4	3,903.86	3/4	4,157.50	3/4	4,411.13	3/4	4,659.27	3/4		3/4		3/4		3/4		3/4	
2	3,655.52	2	3,909.15	2	4,162.78	2	4,416.41	2	4,663.18	2		2		2		2		2	
1/4	3,660.80	1/4	3,914.43	1/4	4,168.06	1/4	4,421.69	1/4	4,667.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.08	1/2	3,919.72	1/2	4,173.35	1/2	4,426.98	1/2	4,670.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.37	3/4	3,925.00	3/4	4,178.63	3/4	4,432.26	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,676.65	3	3,930.29	3	4,183.92	3	4,437.55	3		3		3		3		3		3	
1/4	3,681.93	1/4	3,935.57	1/4	4,189.20	1/4	4,442.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,687.22	1/2	3,940.85	1/2	4,194.48	1/2	4,448.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.50	3/4	3,946.14	3/4	4,199.77	3/4	4,453.40	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,697.79	4	3,951.42	4	4,205.05	4	4,458.69	4		4		4		4		4		4	
1/4	3,703.07	1/4	3,956.70	1/4	4,210.33	1/4	4,463.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.36	1/2	3,961.99	1/2	4,215.62	1/2	4,469.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.64	3/4	3,967.27	3/4	4,220.90	3/4	4,474.54	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,718.93	5	3,972.56	5	4,226.19	5	4,479.82	5		5		5		5		5		5	
1/4	3,724.21	1/4	3,977.84	1/4	4,231.47	1/4	4,485.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,729.49	1/2	3,983.12	1/2	4,236.76	1/2	4,490.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,734.78	3/4	3,988.41	3/4	4,242.04	3/4	4,495.67	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,740.06	6	3,993.69	6	4,247.33	6	4,500.96	6		6		6		6		6		6	
1/4	3,745.34	1/4	3,998.97	1/4	4,252.61	1/4	4,506.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.63	1/2	4,004.26	1/2	4,257.89	1/2	4,511.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,755.91	3/4	4,009.54	3/4	4,263.18	3/4	4,516.81	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,761.20	7	4,014.83	7	4,268.46	7	4,522.09	7		7		7		7		7		7	
1/4	3,766.48	1/4	4,020.11	1/4	4,273.74	1/4	4,527.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.76	1/2	4,025.40	1/2	4,279.03	1/2	4,532.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.05	3/4	4,030.68	3/4	4,284.31	3/4	4,537.94	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,782.33	8	4,035.97	8	4,289.60	8	4,543.23	8		8		8		8		8		8	
1/4	3,787.61	1/4	4,041.25	1/4	4,294.88	1/4	4,548.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,792.90	1/2	4,046.53	1/2	4,300.16	1/2	4,553.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.18	3/4	4,051.82	3/4	4,305.45	3/4	4,559.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,803.47	9	4,057.10	9	4,310.73	9	4,564.37	9		9		9		9		9		9	
1/4	3,808.75	1/4	4,062.38	1/4	4,316.01	1/4	4,569.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,814.04	1/2	4,067.67	1/2	4,321.30	1/2	4,574.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.32	3/4	4,072.95	3/4	4,326.58	3/4	4,580.22	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,824.61	10	4,078.24	10	4,331.87	10	4,585.50	10		10		10		10		10		10	
1/4	3,829.89	1/4	4,083.52	1/4	4,337.15	1/4	4,590.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,835.17	1/2	4,088.80	1/2	4,342.44	1/2	4,596.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,840.46	3/4	4,094.09	3/4	4,347.72	3/4	4,601.35	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,845.74	11	4,099.37	11	4,353.01	11	4,606.64	11		11		11		11		11		11	
1/4	3,851.02	1/4	4,104.65	1/4	4,358.29	1/4	4,611.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,856.31	1/2	4,109.94	1/2	4,363.57	1/2	4,617.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.59	3/4	4,115.22	3/4	4,368.86	3/4	4,622.29	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
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PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

3 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	19.31	0	367.59	0	732.56	0	1,096.18	0	1,459.41	0	1,822.64	0	2,185.88	0	2,549.11	0	2,912.34	0	3,275.58
1/4	23.10	1/4	375.20	1/4	740.14	1/4	1,103.75	1/4	1,466.98	1/4	1,830.21	1/4	2,193.45	1/4	2,556.68	1/4	2,919.91	1/4	3,283.14
1/2	28.70	1/2	382.81	1/2	747.72	1/2	1,111.32	1/2	1,474.55	1/2	1,837.78	1/2	2,201.02	1/2	2,564.25	1/2	2,927.48	1/2	3,290.71
3/4	34.30	3/4	390.42	3/4	755.30	3/4	1,118.89	3/4	1,482.12	3/4	1,845.35	3/4	2,208.59	3/4	2,571.82	3/4	2,935.05	3/4	3,298.28
1	39.90	1	398.02	1	762.87	1	1,126.45	1	1,489.68	1	1,852.91	1	2,216.15	1	2,579.38	1	2,942.61	1	3,305.84
1/4	45.50	1/4	405.63	1/4	770.45	1/4	1,134.02	1/4	1,497.25	1/4	1,860.48	1/4	2,223.72	1/4	2,586.95	1/4	2,950.18	1/4	3,313.41
1/2	52.74	1/2	413.24	1/2	778.03	1/2	1,141.59	1/2	1,504.82	1/2	1,868.05	1/2	2,231.29	1/2	2,594.52	1/2	2,957.75	1/2	3,320.81
3/4	59.97	3/4	420.85	3/4	785.61	3/4	1,149.16	3/4	1,512.39	3/4	1,875.62	3/4	2,238.86	3/4	2,602.09	3/4	2,965.32	3/4	3,328.21
2	67.21	2	428.46	2	793.18	2	1,156.72	2	1,519.95	2	1,883.18	2	2,246.42	2	2,609.65	2	2,972.88	2	3,335.60
1/4	74.44	1/4	436.07	1/4	800.76	1/4	1,164.29	1/4	1,527.52	1/4	1,890.75	1/4	2,253.99	1/4	2,617.22	1/4	2,980.45	1/4	3,343.00
1/2	81.81	1/2	443.68	1/2	808.34	1/2	1,171.86	1/2	1,535.09	1/2	1,898.32	1/2	2,261.56	1/2	2,624.79	1/2	2,988.02	1/2	3,350.74
3/4	89.18	3/4	451.29	3/4	815.91	3/4	1,179.43	3/4	1,542.66	3/4	1,905.89	3/4	2,269.12	3/4	2,632.36	3/4	2,995.59	3/4	3,358.48
3	96.54	3	458.89	3	823.49	3	1,186.99	3	1,550.22	3	1,913.45	3	2,276.69	3	2,639.92	3	3,003.15	3	3,366.21
1/4	103.91	1/4	466.50	1/4	831.06	1/4	1,194.56	1/4	1,557.79	1/4	1,921.02	1/4	2,284.25	1/4	2,647.49	1/4	3,010.72	1/4	3,373.95
1/2	111.28	1/2	474.11	1/2	838.64	1/2	1,202.13	1/2	1,565.36	1/2	1,928.59	1/2	2,291.82	1/2	2,655.06	1/2	3,018.29	1/2	3,381.52
3/4	118.65	3/4	481.72	3/4	846.22	3/4	1,209.70	3/4	1,572.93	3/4	1,936.16	3/4	2,299.39	3/4	2,662.63	3/4	3,025.86	3/4	3,389.09
4	126.02	4	489.33	4	853.79	4	1,217.26	4	1,580.49	4	1,943.72	4	2,306.95	4	2,670.19	4	3,033.42	4	3,396.65
1/4	133.39	1/4	496.94	1/4	861.37	1/4	1,224.83	1/4	1,588.06	1/4	1,951.29	1/4	2,314.52	1/4	2,677.76	1/4	3,040.99	1/4	3,404.22
1/2	140.76	1/2	504.55	1/2	868.95	1/2	1,232.40	1/2	1,595.63	1/2	1,958.86	1/2	2,322.09	1/2	2,685.33	1/2	3,048.56	1/2	3,411.79
3/4	148.13	3/4	512.16	3/4	876.53	3/4	1,239.97	3/4	1,603.20	3/4	1,966.43	3/4	2,329.66	3/4	2,692.90	3/4	3,056.13	3/4	3,419.36
5	155.49	5	519.77	5	884.10	5	1,247.53	5	1,610.76	5	1,973.99	5	2,337.22	5	2,700.46	5	3,063.69	5	3,426.92
1/4	162.86	1/4	527.38	1/4	891.68	1/4	1,255.10	1/4	1,618.33	1/4	1,981.56	1/4	2,344.79	1/4	2,708.03	1/4	3,071.26	1/4	3,434.49
1/2	170.29	1/2	534.99	1/2	899.26	1/2	1,262.67	1/2	1,625.90	1/2	1,989.13	1/2	2,352.36	1/2	2,715.60	1/2	3,078.83	1/2	3,442.00
3/4	177.72	3/4	542.60	3/4	906.84	3/4	1,270.23	3/4	1,633.47	3/4	1,996.70	3/4	2,359.93	3/4	2,723.17	3/4	3,086.40	3/4	3,449.51
6	185.15	6	550.20	6	914.41	6	1,277.80	6	1,641.03	6	2,004.26	6	2,367.49	6	2,730.73	6	3,093.96	6	3,457.01
1/4	192.58	1/4	557.81	1/4	921.99	1/4	1,285.36	1/4	1,648.60	1/4	2,011.83	1/4	2,375.06	1/4	2,738.30	1/4	3,101.53	1/4	3,464.52
1/2	200.19	1/2	565.42	1/2	929.57	1/2	1,292.93	1/2	1,656.17	1/2	2,019.40	1/2	2,382.63	1/2	2,745.87	1/2	3,109.10	1/2	3,471.79
3/4	207.80	3/4	573.03	3/4	937.15	3/4	1,300.50	3/4	1,663.74	3/4	2,026.97	3/4	2,390.20	3/4	2,753.44	3/4	3,116.67	3/4	3,479.07
7	215.41	7	580.64	7	944.72	7	1,308.06	7	1,671.30	7	2,034.53	7	2,397.76	7	2,761.00	7	3,124.23	7	3,486.34
1/4	223.02	1/4	588.25	1/4	952.30	1/4	1,315.63	1/4	1,678.87	1/4	2,042.10	1/4	2,405.33	1/4	2,768.57	1/4	3,131.80	1/4	3,493.61
1/2	230.63	1/2	595.86	1/2	959.88	1/2	1,323.20	1/2	1,686.44	1/2	2,049.67	1/2	2,412.90	1/2	2,776.14	1/2	3,139.37	1/2	3,500.54
3/4	238.24	3/4	603.47	3/4	967.45	3/4	1,330.77	3/4	1,694.01	3/4	2,057.24	3/4	2,420.47	3/4	2,783.70	3/4	3,146.94	3/4	3,507.47
8	245.84	8	611.07	8	975.03	8	1,338.33	8	1,701.57	8	2,064.80	8	2,428.03	8	2,791.27	8	3,154.50	8	3,514.39
1/4	253.45	1/4	618.68	1/4	982.60	1/4	1,345.90	1/4	1,709.14	1/4	2,072.37	1/4	2,435.60	1/4	2,798.83	1/4	3,162.07	1/4	3,521.32
1/2	261.06	1/2	626.29	1/2	990.18	1/2	1,353.47	1/2	1,716.71	1/2	2,079.94	1/2	2,443.17	1/2	2,806.40	1/2	3,169.64	1/2	3,527.90
3/4	268.67	3/4	633.90	3/4	997.76	3/4	1,361.04	3/4	1,724.28	3/4	2,087.51	3/4	2,450.74	3/4	2,813.97	3/4	3,177.21	3/4	3,534.48
9	276.28	9	641.51	9	1,005.33	9	1,368.60	9	1,731.84	9	2,095.07	9	2,458.30	9	2,821.53	9	3,184.77	9	3,541.06
1/4	283.89	1/4	649.12	1/4	1,012.91	1/4	1,376.17	1/4	1,739.41	1/4	2,102.64	1/4	2,465.87	1/4	2,829.10	1/4	3,192.34	1/4	3,547.64
1/2	291.50	1/2	656.72	1/2	1,020.49	1/2	1,383.74	1/2	1,746.98	1/2	2,110.21	1/2	2,473.44	1/2	2,836.67	1/2	3,199.91	1/2	3,553.88
3/4	299.11	3/4	664.32	3/4	1,028.06	3/4	1,391.31	3/4	1,754.54	3/4	2,117.78	3/4	2,481.01	3/4	2,844.24	3/4	3,207.48	3/4	3,560.11
10	306.71	10	671.92	10	1,035.64	10	1,398.87	10	1,762.11	10	2,125.34	10	2,488.57	10	2,851.80	10	3,215.04	10	3,566.35
1/4	314.32	1/4	679.52	1/4	1,043.21	1/4	1,406.44	1/4	1,769.67	1/4	2,132.91	1/4	2,496.14	1/4	2,859.37	1/4	3,222.61	1/4	3,572.58
1/2	321.93	1/2	687.10	1/2	1,050.78	1/2	1,414.01	1/2	1,777.24	1/2	2,140.48	1/2	2,503.71	1/2	2,866.94	1/2	3,230.18	1/2	3,578.47
3/4	329.54	3/4	694.68	3/4	1,058.35	3/4	1,421.58	3/4	1,784.81	3/4	2,148.05	3/4	2,511.28	3/4	2,874.51	3/4	3,237.75	3/4	3,584.36
11	337.15	11	702.25	11	1,065.91	11	1,429.14	11	1,792.37	11	2,155.61	11	2,518.84	11	2,882.07	11	3,245.31	11	3,590.25
1/4	344.76	1/4	709.83	1/4	1,073.48	1/4	1,436.71	1/4	1,799.94	1/4	2,163.18	1/4	2,526.41	1/4	2,889.64	1/4	3,252.88	1/4	3,596.14
1/2	352.37	1/2	717.41	1/2	1,081.05	1/2	1,444.28	1/2	1,807.51	1/2	2,170.75	1/2	2,533.98	1/2	2,897.21	1/2	3,260.45	1/2	3,601.71
3/4	359.98	3/4	724.99	3/4	1,088.62	3/4	1,451.85	3/4	1,815.08	3/4	2,178.32	3/4	2,541.55	3/4	2,904.78	3/4	3,268.01	3/4	3,607.27

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 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

3 STBD INNAGE TABLE HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	3,612.84	0	3,866.88	0	4,120.51	0	4,374.14	0	4,627.48	0		0		0		0		0	
1/4	3,618.40	1/4	3,872.16	1/4	4,125.79	1/4	4,379.42	1/4	4,632.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.72	1/2	3,877.44	1/2	4,131.08	1/2	4,384.71	1/2	4,637.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.03	3/4	3,882.73	3/4	4,136.36	3/4	4,389.99	3/4	4,642.05	3/4		3/4		3/4		3/4		3/4	
1	3,634.35	1	3,888.01	1	4,141.65	1	4,395.28	1	4,646.75	1		1		1		1		1	
1/4	3,639.66	1/4	3,893.29	1/4	4,146.93	1/4	4,400.56	1/4	4,651.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,644.95	1/2	3,898.58	1/2	4,152.21	1/2	4,405.84	1/2	4,655.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,650.23	3/4	3,903.86	3/4	4,157.50	3/4	4,411.13	3/4	4,659.27	3/4		3/4		3/4		3/4		3/4	
2	3,655.52	2	3,909.15	2	4,162.78	2	4,416.41	2	4,663.18	2		2		2		2		2	
1/4	3,660.80	1/4	3,914.43	1/4	4,168.06	1/4	4,421.69	1/4	4,667.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.08	1/2	3,919.72	1/2	4,173.35	1/2	4,426.98	1/2	4,670.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.37	3/4	3,925.00	3/4	4,178.63	3/4	4,432.26	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,676.65	3	3,930.29	3	4,183.92	3	4,437.55	3		3		3		3		3		3	
1/4	3,681.93	1/4	3,935.57	1/4	4,189.20	1/4	4,442.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,687.22	1/2	3,940.85	1/2	4,194.48	1/2	4,448.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.50	3/4	3,946.14	3/4	4,199.77	3/4	4,453.40	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,697.79	4	3,951.42	4	4,205.05	4	4,458.69	4		4		4		4		4		4	
1/4	3,703.07	1/4	3,956.70	1/4	4,210.33	1/4	4,463.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.36	1/2	3,961.99	1/2	4,215.62	1/2	4,469.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.64	3/4	3,967.27	3/4	4,220.90	3/4	4,474.54	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,718.93	5	3,972.56	5	4,226.19	5	4,479.82	5		5		5		5		5		5	
1/4	3,724.21	1/4	3,977.84	1/4	4,231.47	1/4	4,485.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,729.49	1/2	3,983.12	1/2	4,236.76	1/2	4,490.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,734.78	3/4	3,988.41	3/4	4,242.04	3/4	4,495.67	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,740.06	6	3,993.69	6	4,247.33	6	4,500.96	6		6		6		6		6		6	
1/4	3,745.34	1/4	3,998.97	1/4	4,252.61	1/4	4,506.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.63	1/2	4,004.26	1/2	4,257.89	1/2	4,511.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,755.91	3/4	4,009.54	3/4	4,263.18	3/4	4,516.81	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,761.20	7	4,014.83	7	4,268.46	7	4,522.09	7		7		7		7		7		7	
1/4	3,766.48	1/4	4,020.11	1/4	4,273.74	1/4	4,527.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.76	1/2	4,025.40	1/2	4,279.03	1/2	4,532.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.05	3/4	4,030.68	3/4	4,284.31	3/4	4,537.94	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,782.33	8	4,035.97	8	4,289.60	8	4,543.23	8		8		8		8		8		8	
1/4	3,787.61	1/4	4,041.25	1/4	4,294.88	1/4	4,548.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,792.90	1/2	4,046.53	1/2	4,300.16	1/2	4,553.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.18	3/4	4,051.82	3/4	4,305.45	3/4	4,559.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,803.47	9	4,057.10	9	4,310.73	9	4,564.37	9		9		9		9		9		9	
1/4	3,808.75	1/4	4,062.38	1/4	4,316.01	1/4	4,569.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,814.04	1/2	4,067.67	1/2	4,321.30	1/2	4,574.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.32	3/4	4,072.95	3/4	4,326.58	3/4	4,580.22	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,824.61	10	4,078.24	10	4,331.87	10	4,585.50	10		10		10		10		10		10	
1/4	3,829.89	1/4	4,083.52	1/4	4,337.15	1/4	4,590.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,835.17	1/2	4,088.80	1/2	4,342.44	1/2	4,596.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,840.46	3/4	4,094.09	3/4	4,347.72	3/4	4,601.35	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,845.74	11	4,099.37	11	4,353.01	11	4,606.64	11		11		11		11		11		11	
1/4	3,851.02	1/4	4,104.65	1/4	4,358.29	1/4	4,611.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,856.31	1/2	4,109.94	1/2	4,363.57	1/2	4,617.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.59	3/4	4,115.22	3/4	4,368.86	3/4	4,622.29	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021





BARGE "HFL 3081"

ULLAGE (HERMETIC)

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-09"

December 3, 2021

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

<http://www.pmacorp.net>



BARGE "HFL 3081"

1 PORT ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	4,713.76	0	4,357.56	0	4,001.35	0	3,645.14	0	3,288.93	0	2,932.72	0	2,576.52	0	2,220.31
1/4		1/4		1/4	4,706.34	1/4	4,350.14	1/4	3,993.93	1/4	3,637.72	1/4	3,281.51	1/4	2,925.30	1/4	2,569.10	1/4	2,212.89
1/2		1/2		1/2	4,698.92	1/2	4,342.72	1/2	3,986.51	1/2	3,630.30	1/2	3,274.09	1/2	2,917.88	1/2	2,561.67	1/2	2,205.47
3/4		3/4		3/4	4,691.51	3/4	4,335.29	3/4	3,979.08	3/4	3,622.88	3/4	3,266.67	3/4	2,910.46	3/4	2,554.25	3/4	2,198.05
1		1	5,027.46	1	4,684.09	1	4,327.87	1	3,971.66	1	3,615.46	1	3,259.25	1	2,903.04	1	2,546.83	1	2,190.63
1/4		1/4	5,022.94	1/4	4,676.68	1/4	4,320.45	1/4	3,964.24	1/4	3,608.04	1/4	3,251.83	1/4	2,895.62	1/4	2,539.41	1/4	2,183.21
1/2		1/2	5,017.28	1/2	4,669.25	1/2	4,313.03	1/2	3,956.83	1/2	3,600.62	1/2	3,244.41	1/2	2,888.20	1/2	2,531.99	1/2	2,175.78
3/4		3/4	5,011.62	3/4	4,661.83	3/4	4,305.61	3/4	3,949.41	3/4	3,593.19	3/4	3,236.98	3/4	2,880.78	3/4	2,524.57	3/4	2,168.36
2		2	5,005.97	2	4,654.40	2	4,298.19	2	3,942.00	2	3,585.77	2	3,229.56	2	2,873.36	2	2,517.15	2	2,160.94
1/4		1/4	5,000.31	1/4	4,646.98	1/4	4,290.77	1/4	3,934.59	1/4	3,578.35	1/4	3,222.14	1/4	2,865.94	1/4	2,509.73	1/4	2,153.52
1/2		1/2	4,993.52	1/2	4,639.56	1/2	4,283.35	1/2	3,927.16	1/2	3,570.93	1/2	3,214.72	1/2	2,858.51	1/2	2,502.31	1/2	2,146.10
3/4		3/4	4,986.73	3/4	4,632.13	3/4	4,275.92	3/4	3,919.73	3/4	3,563.51	3/4	3,207.30	3/4	2,851.09	3/4	2,494.89	3/4	2,138.68
3		3	4,979.94	3	4,624.71	3	4,268.50	3	3,912.31	3	3,556.09	3	3,199.88	3	2,843.67	3	2,487.47	3	2,131.26
1/4		1/4	4,973.15	1/4	4,617.29	1/4	4,261.08	1/4	3,904.88	1/4	3,548.67	1/4	3,192.46	1/4	2,836.25	1/4	2,480.05	1/4	2,123.84
1/2		1/2	4,965.82	1/2	4,609.87	1/2	4,253.66	1/2	3,897.46	1/2	3,541.25	1/2	3,185.04	1/2	2,828.83	1/2	2,472.62	1/2	2,116.41
3/4		3/4	4,958.48	3/4	4,602.45	3/4	4,246.24	3/4	3,890.03	3/4	3,533.82	3/4	3,177.62	3/4	2,821.41	3/4	2,465.20	3/4	2,108.99
4		4	4,951.15	4	4,595.03	4	4,238.82	4	3,882.61	4	3,526.40	4	3,170.20	4	2,813.99	4	2,457.78	4	2,101.57
1/4		1/4	4,943.82	1/4	4,587.61	1/4	4,231.40	1/4	3,875.19	1/4	3,518.98	1/4	3,162.78	1/4	2,806.57	1/4	2,450.36	1/4	2,094.15
1/2		1/2	4,936.40	1/2	4,580.19	1/2	4,223.98	1/2	3,867.77	1/2	3,511.56	1/2	3,155.36	1/2	2,799.14	1/2	2,442.94	1/2	2,086.73
3/4		3/4	4,928.97	3/4	4,572.76	3/4	4,216.56	3/4	3,860.35	3/4	3,504.14	3/4	3,147.93	3/4	2,791.72	3/4	2,435.52	3/4	2,079.31
5		5	4,921.55	5	4,565.34	5	4,209.14	5	3,852.93	5	3,496.72	5	3,140.51	5	2,784.30	5	2,428.10	5	2,071.89
1/4		1/4	4,914.13	1/4	4,557.92	1/4	4,201.72	1/4	3,845.51	1/4	3,489.30	1/4	3,133.09	1/4	2,776.88	1/4	2,420.68	1/4	2,064.47
1/2		1/2	4,906.71	1/2	4,550.50	1/2	4,194.30	1/2	3,838.09	1/2	3,481.88	1/2	3,125.67	1/2	2,769.46	1/2	2,413.25	1/2	2,057.05
3/4		3/4	4,899.29	3/4	4,543.08	3/4	4,186.87	3/4	3,830.66	3/4	3,474.46	3/4	3,118.25	3/4	2,762.04	3/4	2,405.83	3/4	2,049.63
6		6	4,891.87	6	4,535.66	6	4,179.45	6	3,823.24	6	3,467.04	6	3,110.83	6	2,754.62	6	2,398.41	6	2,042.21
1/4		1/4	4,884.45	1/4	4,528.24	1/4	4,172.03	1/4	3,815.82	1/4	3,459.62	1/4	3,103.41	1/4	2,747.20	1/4	2,390.99	1/4	2,034.79
1/2		1/2	4,877.03	1/2	4,520.82	1/2	4,164.61	1/2	3,808.40	1/2	3,452.20	1/2	3,095.99	1/2	2,739.78	1/2	2,383.57	1/2	2,027.36
3/4		3/4	4,869.60	3/4	4,513.40	3/4	4,157.19	3/4	3,800.98	3/4	3,444.77	3/4	3,088.56	3/4	2,732.36	3/4	2,376.15	3/4	2,019.94
7		7	4,862.18	7	4,505.98	7	4,149.77	7	3,793.56	7	3,437.35	7	3,081.14	7	2,724.94	7	2,368.73	7	2,012.52
1/4		1/4	4,854.76	1/4	4,498.56	1/4	4,142.35	1/4	3,786.14	1/4	3,429.93	1/4	3,073.72	1/4	2,717.52	1/4	2,361.31	1/4	2,005.10
1/2		1/2	4,847.34	1/2	4,491.14	1/2	4,134.93	1/2	3,778.72	1/2	3,422.51	1/2	3,066.30	1/2	2,710.09	1/2	2,353.89	1/2	1,997.68
3/4		3/4	4,839.92	3/4	4,483.71	3/4	4,127.50	3/4	3,771.30	3/4	3,415.09	3/4	3,058.88	3/4	2,702.67	3/4	2,346.47	3/4	1,990.26
8		8	4,832.50	8	4,476.29	8	4,120.08	8	3,763.88	8	3,407.67	8	3,051.46	8	2,695.25	8	2,339.05	8	1,982.84
1/4		1/4	4,825.08	1/4	4,468.87	1/4	4,112.66	1/4	3,756.46	1/4	3,400.25	1/4	3,044.04	1/4	2,687.83	1/4	2,331.63	1/4	1,975.42
1/2		1/2	4,817.66	1/2	4,461.45	1/2	4,105.24	1/2	3,749.04	1/2	3,392.83	1/2	3,036.62	1/2	2,680.41	1/2	2,324.20	1/2	1,967.99
3/4		3/4	4,810.24	3/4	4,454.03	3/4	4,097.82	3/4	3,741.61	3/4	3,385.40	3/4	3,029.20	3/4	2,672.99	3/4	2,316.78	3/4	1,960.57
9		9	4,802.82	9	4,446.61	9	4,090.40	9	3,734.19	9	3,377.98	9	3,021.78	9	2,665.57	9	2,309.36	9	1,953.15
1/4		1/4	4,795.40	1/4	4,439.19	1/4	4,082.98	1/4	3,726.77	1/4	3,370.56	1/4	3,014.36	1/4	2,658.15	1/4	2,301.94	1/4	1,945.73
1/2		1/2	4,787.98	1/2	4,431.77	1/2	4,075.56	1/2	3,719.35	1/2	3,363.14	1/2	3,006.94	1/2	2,650.73	1/2	2,294.52	1/2	1,938.31
3/4		3/4	4,780.55	3/4	4,424.34	3/4	4,068.14	3/4	3,711.93	3/4	3,355.72	3/4	2,999.51	3/4	2,643.31	3/4	2,287.10	3/4	1,930.89
10		10	4,773.13	10	4,416.92	10	4,060.72	10	3,704.51	10	3,348.30	10	2,992.09	10	2,635.89	10	2,279.68	10	1,923.47
1/4		1/4	4,765.71	1/4	4,409.50	1/4	4,053.30	1/4	3,697.09	1/4	3,340.88	1/4	2,984.67	1/4	2,628.47	1/4	2,272.26	1/4	1,916.05
1/2		1/2	4,758.29	1/2	4,402.08	1/2	4,045.88	1/2	3,689.67	1/2	3,333.46	1/2	2,977.25	1/2	2,621.04	1/2	2,264.83	1/2	1,908.63
3/4		3/4	4,750.87	3/4	4,394.66	3/4	4,038.45	3/4	3,682.24	3/4	3,326.04	3/4	2,969.83	3/4	2,613.62	3/4	2,257.41	3/4	1,901.21
11		11	4,743.45	11	4,387.24	11	4,031.03	11	3,674.82	11	3,318.62	11	2,962.41	11	2,606.20	11	2,249.99	11	1,893.79
1/4		1/4	4,736.03	1/4	4,379.82	1/4	4,023.61	1/4	3,667.40	1/4	3,311.20	1/4	2,954.99	1/4	2,598.78	1/4	2,242.57	1/4	1,886.37
1/2		1/2	4,728.61	1/2	4,372.40	1/2	4,016.19	1/2	3,659.98	1/2	3,303.78	1/2	2,947.57	1/2	2,591.36	1/2	2,235.15	1/2	1,878.94
3/4		3/4	4,721.18	3/4	4,364.98	3/4	4,008.77	3/4	3,652.56	3/4	3,296.35	3/4	2,940.14	3/4	2,583.94	3/4	2,227.73	3/4	1,871.52

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-00" 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 3081"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	1,864.10	0	1,507.89	0	1,151.69	0	795.48	0	437.98	0	99.17	0		0		0		0	
1/4	1,856.68	1/4	1,500.47	1/4	1,144.27	1/4	788.06	1/4	430.50	1/4	92.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,849.26	1/2	1,493.05	1/2	1,136.84	1/2	780.63	1/2	423.04	1/2	86.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,841.84	3/4	1,485.63	3/4	1,129.42	3/4	773.21	3/4	415.59	3/4	79.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,834.42	1	1,478.21	1	1,122.00	1	765.79	1	408.14	1	73.28	1	1	1	1	1	1	1	1
1/4	1,827.00	1/4	1,470.79	1/4	1,114.58	1/4	758.37	1/4	400.69	1/4	66.82	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,819.57	1/2	1,463.37	1/2	1,107.16	1/2	750.95	1/2	393.33	1/2	60.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,812.15	3/4	1,455.95	3/4	1,099.74	3/4	743.53	3/4	385.97	3/4	54.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,804.73	2	1,448.53	2	1,092.32	2	736.11	2	378.61	2	48.04	2	2	2	2	2	2	2	2
1/4	1,797.31	1/4	1,441.11	1/4	1,084.90	1/4	728.69	1/4	371.26	1/4	41.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,789.89	1/2	1,433.68	1/2	1,077.47	1/2	721.27	1/2	363.93	1/2	36.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,782.47	3/4	1,426.26	3/4	1,070.05	3/4	713.85	3/4	356.60	3/4	31.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,775.05	3	1,418.84	3	1,062.63	3	706.43	3	349.27	3	26.96	3	3	3	3	3	3	3	3
1/4	1,767.63	1/4	1,411.42	1/4	1,055.21	1/4	699.01	1/4	341.94	1/4	22.03	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,760.21	1/2	1,404.00	1/2	1,047.79	1/2	691.58	1/2	334.70	1/2	18.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,752.79	3/4	1,396.58	3/4	1,040.37	3/4	684.16	3/4	327.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,745.37	4	1,389.16	4	1,032.95	4	676.74	4	320.23	4		4	4	4	4	4	4	4	4
1/4	1,737.95	1/4	1,381.74	1/4	1,025.53	1/4	669.32	1/4	313.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,730.52	1/2	1,374.31	1/2	1,018.11	1/2	661.90	1/2	305.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,723.10	3/4	1,366.89	3/4	1,010.69	3/4	654.48	3/4	298.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,715.68	5	1,359.47	5	1,003.27	5	647.06	5	291.39	5		5	5	5	5	5	5	5	5
1/4	1,708.26	1/4	1,352.05	1/4	995.85	1/4	639.64	1/4	284.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,700.84	1/2	1,344.63	1/2	988.42	1/2	632.21	1/2	277.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.42	3/4	1,337.21	3/4	981.00	3/4	624.79	3/4	269.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,686.00	6	1,329.79	6	973.58	6	617.37	6	262.86	6		6	6	6	6	6	6	6	6
1/4	1,678.58	1/4	1,322.37	1/4	966.16	1/4	609.95	1/4	255.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,671.15	1/2	1,314.95	1/2	958.74	1/2	602.53	1/2	248.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,663.73	3/4	1,307.53	3/4	951.32	3/4	595.11	3/4	241.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,656.31	7	1,300.11	7	943.90	7	587.69	7	234.52	7		7	7	7	7	7	7	7	7
1/4	1,648.89	1/4	1,292.69	1/4	936.48	1/4	580.27	1/4	227.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,641.47	1/2	1,285.26	1/2	929.05	1/2	572.85	1/2	220.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,634.05	3/4	1,277.84	3/4	921.63	3/4	565.43	3/4	213.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,626.63	8	1,270.42	8	914.21	8	558.01	8	206.50	8		8	8	8	8	8	8	8	8
1/4	1,619.21	1/4	1,263.00	1/4	906.79	1/4	550.59	1/4	199.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,611.79	1/2	1,255.58	1/2	899.37	1/2	543.16	1/2	192.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,604.37	3/4	1,248.16	3/4	891.95	3/4	535.74	3/4	185.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,596.95	9	1,240.74	9	884.53	9	528.32	9	178.66	9		9	9	9	9	9	9	9	9
1/4	1,589.53	1/4	1,233.32	1/4	877.11	1/4	520.90	1/4	171.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,582.10	1/2	1,225.89	1/2	869.69	1/2	513.36	1/2	165.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,574.68	3/4	1,218.47	3/4	862.27	3/4	505.82	3/4	158.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,567.26	10	1,211.05	10	854.85	10	498.28	10	151.67	10		10	10	10	10	10	10	10	10
1/4	1,559.84	1/4	1,203.63	1/4	847.43	1/4	490.75	1/4	145.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,552.42	1/2	1,196.21	1/2	840.00	1/2	483.17	1/2	138.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,545.00	3/4	1,188.79	3/4	832.58	3/4	475.59	3/4	131.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,537.58	11	1,181.37	11	825.16	11	468.01	11	125.24	11		11	11	11	11	11	11	11	11
1/4	1,530.16	1/4	1,173.95	1/4	817.74	1/4	460.43	1/4	118.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,522.73	1/2	1,166.53	1/2	810.32	1/2	452.94	1/2	112.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,515.31	3/4	1,159.11	3/4	802.90	3/4	445.46	3/4	105.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,698.92	0	4,342.72	0	3,986.51	0	3,630.30	0	3,274.09	0	2,917.88	0	2,561.67	0	2,205.47		
1/4	1/4	1/4	1/4	1/4	4,691.51	1/4	4,335.29	1/4	3,979.08	1/4	3,622.88	1/4	3,266.67	1/4	2,910.46	1/4	2,554.25	1/4	2,198.05		
1/2	1/2	1/2	1/2	1/2	5,027.46	1/2	4,684.09	1/2	4,327.87	1/2	3,971.66	1/2	3,615.46	1/2	3,259.25	1/2	2,903.04	1/2	2,546.83	1/2	2,190.63
3/4	3/4	3/4	3/4	3/4	5,022.94	3/4	4,676.68	3/4	4,320.45	3/4	3,964.24	3/4	3,608.04	3/4	3,251.83	3/4	2,895.62	3/4	2,539.41	3/4	2,183.21
1	1	1	1	1	5,017.28	1	4,669.25	1	4,313.03	1	3,956.83	1	3,600.62	1	3,244.41	1	2,888.20	1	2,531.99	1	2,175.78
1/4	1/4	1/4	1/4	1/4	5,011.62	1/4	4,661.83	1/4	4,305.61	1/4	3,949.41	1/4	3,593.19	1/4	3,236.98	1/4	2,880.78	1/4	2,524.57	1/4	2,168.36
1/2	1/2	1/2	1/2	1/2	5,005.97	1/2	4,654.40	1/2	4,298.19	1/2	3,942.00	1/2	3,585.77	1/2	3,229.56	1/2	2,873.36	1/2	2,517.15	1/2	2,160.94
3/4	3/4	3/4	3/4	3/4	5,000.31	3/4	4,646.98	3/4	4,290.77	3/4	3,934.59	3/4	3,578.35	3/4	3,222.14	3/4	2,865.94	3/4	2,509.73	3/4	2,153.52
2	2	2	2	2	4,993.52	2	4,639.56	2	4,283.35	2	3,927.16	2	3,570.93	2	3,214.72	2	2,858.51	2	2,502.31	2	2,146.10
1/4	1/4	1/4	1/4	1/4	4,986.73	1/4	4,632.13	1/4	4,275.92	1/4	3,919.73	1/4	3,563.51	1/4	3,207.30	1/4	2,851.09	1/4	2,494.89	1/4	2,138.68
1/2	1/2	1/2	1/2	1/2	4,979.94	1/2	4,624.71	1/2	4,268.50	1/2	3,912.31	1/2	3,556.09	1/2	3,199.88	1/2	2,843.67	1/2	2,487.47	1/2	2,131.26
3/4	3/4	3/4	3/4	3/4	4,973.15	3/4	4,617.29	3/4	4,261.08	3/4	3,904.88	3/4	3,548.67	3/4	3,192.46	3/4	2,836.25	3/4	2,480.05	3/4	2,123.84
3	3	3	3	3	4,965.82	3	4,609.87	3	4,253.66	3	3,897.46	3	3,541.25	3	3,185.04	3	2,828.83	3	2,472.62	3	2,116.41
1/4	1/4	1/4	1/4	1/4	4,958.48	1/4	4,602.45	1/4	4,246.24	1/4	3,890.03	1/4	3,533.82	1/4	3,177.62	1/4	2,821.41	1/4	2,465.20	1/4	2,108.99
1/2	1/2	1/2	1/2	1/2	4,951.15	1/2	4,595.03	1/2	4,238.82	1/2	3,882.61	1/2	3,526.40	1/2	3,170.20	1/2	2,813.99	1/2	2,457.78	1/2	2,101.57
3/4	3/4	3/4	3/4	3/4	4,943.82	3/4	4,587.61	3/4	4,231.40	3/4	3,875.19	3/4	3,518.98	3/4	3,162.78	3/4	2,806.57	3/4	2,450.36	3/4	2,094.15
4	4	4	4	4	4,936.40	4	4,580.19	4	4,223.98	4	3,867.77	4	3,511.56	4	3,155.36	4	2,799.14	4	2,442.94	4	2,086.73
1/4	1/4	1/4	1/4	1/4	4,928.97	1/4	4,572.76	1/4	4,216.56	1/4	3,860.35	1/4	3,504.14	1/4	3,147.93	1/4	2,791.72	1/4	2,435.52	1/4	2,079.31
1/2	1/2	1/2	1/2	1/2	4,921.55	1/2	4,565.34	1/2	4,209.14	1/2	3,852.93	1/2	3,496.72	1/2	3,140.51	1/2	2,784.30	1/2	2,428.10	1/2	2,071.89
3/4	3/4	3/4	3/4	3/4	4,914.13	3/4	4,557.92	3/4	4,201.72	3/4	3,845.51	3/4	3,489.30	3/4	3,133.09	3/4	2,776.88	3/4	2,420.68	3/4	2,064.47
5	5	5	5	5	4,906.71	5	4,550.50	5	4,194.30	5	3,838.09	5	3,481.88	5	3,125.67	5	2,769.46	5	2,413.25	5	2,057.05
1/4	1/4	1/4	1/4	1/4	4,899.29	1/4	4,543.08	1/4	4,186.87	1/4	3,830.66	1/4	3,474.46	1/4	3,118.25	1/4	2,762.04	1/4	2,405.83	1/4	2,049.63
1/2	1/2	1/2	1/2	1/2	4,891.87	1/2	4,535.66	1/2	4,179.45	1/2	3,823.24	1/2	3,467.04	1/2	3,110.83	1/2	2,754.62	1/2	2,398.41	1/2	2,042.21
3/4	3/4	3/4	3/4	3/4	4,884.45	3/4	4,528.24	3/4	4,172.03	3/4	3,815.82	3/4	3,459.62	3/4	3,103.41	3/4	2,747.20	3/4	2,390.99	3/4	2,034.79
6	6	6	6	6	4,877.03	6	4,520.82	6	4,164.61	6	3,808.40	6	3,452.20	6	3,095.99	6	2,739.78	6	2,383.57	6	2,027.36
1/4	1/4	1/4	1/4	1/4	4,869.60	1/4	4,513.40	1/4	4,157.19	1/4	3,800.98	1/4	3,444.77	1/4	3,088.56	1/4	2,732.36	1/4	2,376.15	1/4	2,019.94
1/2	1/2	1/2	1/2	1/2	4,862.18	1/2	4,505.98	1/2	4,149.77	1/2	3,793.56	1/2	3,437.35	1/2	3,081.14	1/2	2,724.94	1/2	2,368.73	1/2	2,012.52
3/4	3/4	3/4	3/4	3/4	4,854.76	3/4	4,498.56	3/4	4,142.35	3/4	3,786.14	3/4	3,429.93	3/4	3,073.72	3/4	2,717.52	3/4	2,361.31	3/4	2,005.10
7	7	7	7	7	4,847.34	7	4,491.14	7	4,134.93	7	3,778.72	7	3,422.51	7	3,066.30	7	2,710.09	7	2,353.89	7	1,997.68
1/4	1/4	1/4	1/4	1/4	4,839.92	1/4	4,483.71	1/4	4,127.50	1/4	3,771.30	1/4	3,415.09	1/4	3,058.88	1/4	2,702.67	1/4	2,346.47	1/4	1,990.26
1/2	1/2	1/2	1/2	1/2	4,832.50	1/2	4,476.29	1/2	4,120.08	1/2	3,763.88	1/2	3,407.67	1/2	3,051.46	1/2	2,695.25	1/2	2,339.05	1/2	1,982.84
3/4	3/4	3/4	3/4	3/4	4,825.08	3/4	4,468.87	3/4	4,112.66	3/4	3,756.46	3/4	3,400.25	3/4	3,044.04	3/4	2,687.83	3/4	2,331.63	3/4	1,975.42
8	8	8	8	8	4,817.66	8	4,461.45	8	4,105.24	8	3,749.04	8	3,392.83	8	3,036.62	8	2,680.41	8	2,324.20	8	1,967.99
1/4	1/4	1/4	1/4	1/4	4,810.24	1/4	4,454.03	1/4	4,097.82	1/4	3,741.61	1/4	3,385.40	1/4	3,029.20	1/4	2,672.99	1/4	2,316.78	1/4	1,960.57
1/2	1/2	1/2	1/2	1/2	4,802.82	1/2	4,446.61	1/2	4,090.40	1/2	3,734.19	1/2	3,377.98	1/2	3,021.78	1/2	2,665.57	1/2	2,309.36	1/2	1,953.15
3/4	3/4	3/4	3/4	3/4	4,795.40	3/4	4,439.19	3/4	4,082.98	3/4	3,726.77	3/4	3,370.56	3/4	3,014.36	3/4	2,658.15	3/4	2,301.94	3/4	1,945.73
9	9	9	9	9	4,787.98	9	4,431.77	9	4,075.56	9	3,719.35	9	3,363.14	9	3,006.94	9	2,650.73	9	2,294.52	9	1,938.31
1/4	1/4	1/4	1/4	1/4	4,780.55	1/4	4,424.34	1/4	4,068.14	1/4	3,711.93	1/4	3,355.72	1/4	2,999.51	1/4	2,643.31	1/4	2,287.10	1/4	1,930.89
1/2	1/2	1/2	1/2	1/2	4,773.13	1/2	4,416.92	1/2	4,060.72	1/2	3,704.51	1/2	3,348.30	1/2	2,992.09	1/2	2,635.89	1/2	2,279.68	1/2	1,923.47
3/4	3/4	3/4	3/4	3/4	4,765.71	3/4	4,409.50	3/4	4,053.30	3/4	3,697.09	3/4	3,340.88	3/4	2,984.67	3/4	2,628.47	3/4	2,272.26	3/4	1,916.05
10	10	10	10	10	4,758.29	10	4,402.08	10	4,045.88	10	3,689.67	10	3,333.46	10	2,977.25	10	2,621.04	10	2,264.83	10	1,908.63
1/4	1/4	1/4	1/4	1/4	4,750.87	1/4	4,394.66	1/4	4,038.45	1/4	3,682.24	1/4	3,326.04	1/4	2,969.83	1/4	2,613.62	1/4	2,257.41	1/4	1,901.21
1/2	1/2	1/2	1/2	1/2	4,743.45	1/2	4,387.24	1/2	4,031.03	1/2	3,674.82	1/2	3,318.62	1/2	2,962.41	1/2	2,606.20	1/2	2,249.99	1/2	1,893.79
3/4	3/4	3/4	3/4	3/4	4,736.03	3/4	4,379.82	3/4	4,023.61	3/4	3,667.40	3/4	3,311.20	3/4	2,954.99	3/4	2,598.78	3/4	2,242.57	3/4	1,886.37
11	11	11	11	11	4,728.61	11	4,372.40	11	4,016.19	11	3,659.98	11	3,303.78	11	2,947.57	11	2,591.36	11	2,235.15	11	1,878.94
1/4	1/4	1/4	1/4	1/4	4,721.18	1/4	4,364.98	1/4	4,008.77	1/4	3,652.56	1/4	3,296.35	1/4	2,940.14	1/4	2,583.94	1/4	2,227.73	1/4	1,871.52
1/2	1/2	1/2	1/2	1/2	4,713.76	1/2	4,357.56	1/2	4,001.35	1/2	3,645.14	1/2	3,288.93	1/2	2,932.72	1/2	2,576.52	1/2	2,220.31	1/2	1,864.10
3/4	3/4	3/4	3/4	3/4	4,706.34	3/4	4,350.14	3/4	3,993.93	3/4	3,637.72	3/4	3,281.51	3/4	2,925.30	3/4	2,569.10	3/4	2,212.89	3/4	1,856.68

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-00" 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 3081"

1 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	1,849.26	0	1,493.05	0	1,136.84	0	780.63	0	423.04	0	86.21	0		0		0		0	
1/4	1,841.84	1/4	1,485.63	1/4	1,129.42	1/4	773.21	1/4	415.59	1/4	79.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,834.42	1/2	1,478.21	1/2	1,122.00	1/2	765.79	1/2	408.14	1/2	73.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,827.00	3/4	1,470.79	3/4	1,114.58	3/4	758.37	3/4	400.69	3/4	66.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,819.57	1	1,463.37	1	1,107.16	1	750.95	1	393.33	1	60.56	1		1		1		1	
1/4	1,812.15	1/4	1,455.95	1/4	1,099.74	1/4	743.53	1/4	385.97	1/4	54.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,804.73	1/2	1,448.53	1/2	1,092.32	1/2	736.11	1/2	378.61	1/2	48.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,797.31	3/4	1,441.11	3/4	1,084.90	3/4	728.69	3/4	371.26	3/4	41.78	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,789.89	2	1,433.68	2	1,077.47	2	721.27	2	363.93	2	36.84	2		2		2		2	
1/4	1,782.47	1/4	1,426.26	1/4	1,070.05	1/4	713.85	1/4	356.60	1/4	31.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.05	1/2	1,418.84	1/2	1,062.63	1/2	706.43	1/2	349.27	1/2	26.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.63	3/4	1,411.42	3/4	1,055.21	3/4	699.01	3/4	341.94	3/4	22.03	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,760.21	3	1,404.00	3	1,047.79	3	691.58	3	334.70	3	18.62	3		3		3		3	
1/4	1,752.79	1/4	1,396.58	1/4	1,040.37	1/4	684.16	1/4	327.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.37	1/2	1,389.16	1/2	1,032.95	1/2	676.74	1/2	320.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.95	3/4	1,381.74	3/4	1,025.53	3/4	669.32	3/4	313.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,730.52	4	1,374.31	4	1,018.11	4	661.90	4	305.79	4		4		4		4		4	
1/4	1,723.10	1/4	1,366.89	1/4	1,010.69	1/4	654.48	1/4	298.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.68	1/2	1,359.47	1/2	1,003.27	1/2	647.06	1/2	291.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.26	3/4	1,352.05	3/4	995.85	3/4	639.64	3/4	284.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,700.84	5	1,344.63	5	988.42	5	632.21	5	277.08	5		5		5		5		5	
1/4	1,693.42	1/4	1,337.21	1/4	981.00	1/4	624.79	1/4	269.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,686.00	1/2	1,329.79	1/2	973.58	1/2	617.37	1/2	262.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,678.58	3/4	1,322.37	3/4	966.16	3/4	609.95	3/4	255.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,671.15	6	1,314.95	6	958.74	6	602.53	6	248.68	6		6		6		6		6	
1/4	1,663.73	1/4	1,307.53	1/4	951.32	1/4	595.11	1/4	241.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,656.31	1/2	1,300.11	1/2	943.90	1/2	587.69	1/2	234.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.89	3/4	1,292.69	3/4	936.48	3/4	580.27	3/4	227.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,641.47	7	1,285.26	7	929.05	7	572.85	7	220.46	7		7		7		7		7	
1/4	1,634.05	1/4	1,277.84	1/4	921.63	1/4	565.43	1/4	213.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,626.63	1/2	1,270.42	1/2	914.21	1/2	558.01	1/2	206.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,619.21	3/4	1,263.00	3/4	906.79	3/4	550.59	3/4	199.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,611.79	8	1,255.58	8	899.37	8	543.16	8	192.56	8		8		8		8		8	
1/4	1,604.37	1/4	1,248.16	1/4	891.95	1/4	535.74	1/4	185.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,596.95	1/2	1,240.74	1/2	884.53	1/2	528.32	1/2	178.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,589.53	3/4	1,233.32	3/4	877.11	3/4	520.90	3/4	171.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,582.10	9	1,225.89	9	869.69	9	513.36	9	165.03	9		9		9		9		9	
1/4	1,574.68	1/4	1,218.47	1/4	862.27	1/4	505.82	1/4	158.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,567.26	1/2	1,211.05	1/2	854.85	1/2	498.28	1/2	151.67	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,559.84	3/4	1,203.63	3/4	847.43	3/4	490.75	3/4	145.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,552.42	10	1,196.21	10	840.00	10	483.17	10	138.41	10		10		10		10		10	
1/4	1,545.00	1/4	1,188.79	1/4	832.58	1/4	475.59	1/4	131.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,537.58	1/2	1,181.37	1/2	825.16	1/2	468.01	1/2	125.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,530.16	3/4	1,173.95	3/4	817.74	3/4	460.43	3/4	118.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,522.73	11	1,166.53	11	810.32	11	452.94	11	112.16	11		11		11		11		11	
1/4	1,515.31	1/4	1,159.11	1/4	802.90	1/4	445.46	1/4	105.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,507.89	1/2	1,151.69	1/2	795.48	1/2	437.98	1/2	99.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,500.47	3/4	1,144.27	3/4	788.06	3/4	430.50	3/4	92.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

2 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,771.13	0	4,414.85	0	4,054.56	0	3,694.27	0	3,333.98	0	2,973.69	0	2,613.41	0	2,253.12
1/4		1/4		1/4	4,763.99	1/4	4,407.34	1/4	4,047.05	1/4	3,686.77	1/4	3,326.47	1/4	2,966.18	1/4	2,605.90	1/4	2,245.61
1/2		1/2		1/2	4,756.85	1/2	4,399.84	1/2	4,039.55	1/2	3,679.26	1/2	3,318.97	1/2	2,958.68	1/2	2,598.39	1/2	2,238.10
3/4		3/4	5,078.68	3/4	4,749.70	3/4	4,392.33	3/4	4,032.04	3/4	3,671.76	3/4	3,311.46	3/4	2,951.17	3/4	2,590.89	3/4	2,230.60
1		1	5,074.42	1	4,742.56	1	4,384.82	1	4,024.53	1	3,664.25	1	3,303.96	1	2,943.67	1	2,583.38	1	2,223.09
1/4		1/4	5,069.10	1/4	4,735.42	1/4	4,377.32	1/4	4,017.03	1/4	3,656.74	1/4	3,296.45	1/4	2,936.16	1/4	2,575.87	1/4	2,215.58
1/2		1/2	5,063.77	1/2	4,728.28	1/2	4,369.81	1/2	4,009.52	1/2	3,649.24	1/2	3,288.94	1/2	2,928.66	1/2	2,568.37	1/2	2,208.08
3/4		3/4	5,058.45	3/4	4,721.13	3/4	4,362.31	3/4	4,002.02	3/4	3,641.73	3/4	3,281.44	3/4	2,921.15	3/4	2,560.86	3/4	2,200.57
2		2	5,053.12	2	4,713.99	2	4,354.80	2	3,994.51	2	3,634.22	2	3,273.93	2	2,913.65	2	2,553.36	2	2,193.07
1/4		1/4	5,046.77	1/4	4,706.76	1/4	4,347.29	1/4	3,987.01	1/4	3,626.71	1/4	3,266.42	1/4	2,906.14	1/4	2,545.85	1/4	2,185.56
1/2		1/2	5,040.42	1/2	4,699.53	1/2	4,339.79	1/2	3,979.50	1/2	3,619.21	1/2	3,258.92	1/2	2,898.63	1/2	2,538.34	1/2	2,178.06
3/4		3/4	5,034.06	3/4	4,692.29	3/4	4,332.28	3/4	3,972.00	3/4	3,611.70	3/4	3,251.41	3/4	2,891.13	3/4	2,530.84	3/4	2,170.55
3		3	5,027.71	3	4,685.06	3	4,324.77	3	3,964.49	3	3,604.20	3	3,243.91	3	2,883.62	3	2,523.33	3	2,163.05
1/4		1/4	5,020.70	1/4	4,677.56	1/4	4,317.27	1/4	3,956.98	1/4	3,596.69	1/4	3,236.40	1/4	2,876.11	1/4	2,515.82	1/4	2,155.54
1/2		1/2	5,013.69	1/2	4,670.05	1/2	4,309.76	1/2	3,949.48	1/2	3,589.18	1/2	3,228.90	1/2	2,868.61	1/2	2,508.32	1/2	2,148.03
3/4		3/4	5,006.68	3/4	4,662.55	3/4	4,302.26	3/4	3,941.97	3/4	3,581.68	3/4	3,221.39	3/4	2,861.10	3/4	2,500.81	3/4	2,140.53
4		4	4,999.67	4	4,655.04	4	4,294.75	4	3,934.46	4	3,574.17	4	3,213.89	4	2,853.60	4	2,493.31	4	2,133.02
1/4		1/4	4,992.53	1/4	4,647.53	1/4	4,287.25	1/4	3,926.96	1/4	3,566.66	1/4	3,206.38	1/4	2,846.09	1/4	2,485.80	1/4	2,125.51
1/2		1/2	4,985.39	1/2	4,640.03	1/2	4,279.74	1/2	3,919.45	1/2	3,559.16	1/2	3,198.87	1/2	2,838.58	1/2	2,478.30	1/2	2,118.01
3/4		3/4	4,978.25	3/4	4,632.52	3/4	4,272.24	3/4	3,911.95	3/4	3,551.65	3/4	3,191.37	3/4	2,831.08	3/4	2,470.79	3/4	2,110.50
5		5	4,971.11	5	4,625.01	5	4,264.73	5	3,904.44	5	3,544.15	5	3,183.86	5	2,823.57	5	2,463.29	5	2,103.00
1/4		1/4	4,963.97	1/4	4,617.51	1/4	4,257.22	1/4	3,896.93	1/4	3,536.64	1/4	3,176.35	1/4	2,816.06	1/4	2,455.78	1/4	2,095.49
1/2		1/2	4,956.83	1/2	4,610.00	1/2	4,249.72	1/2	3,889.43	1/2	3,529.14	1/2	3,168.85	1/2	2,808.56	1/2	2,448.27	1/2	2,087.98
3/4		3/4	4,949.68	3/4	4,602.50	3/4	4,242.21	3/4	3,881.92	3/4	3,521.63	3/4	3,161.34	3/4	2,801.05	3/4	2,440.77	3/4	2,080.48
6		6	4,942.54	6	4,594.99	6	4,234.70	6	3,874.41	6	3,514.13	6	3,153.84	6	2,793.55	6	2,433.26	6	2,072.97
1/4		1/4	4,935.40	1/4	4,587.49	1/4	4,227.20	1/4	3,866.91	1/4	3,506.62	1/4	3,146.33	1/4	2,786.04	1/4	2,425.75	1/4	2,065.46
1/2		1/2	4,928.26	1/2	4,579.98	1/2	4,219.69	1/2	3,859.40	1/2	3,499.11	1/2	3,138.82	1/2	2,778.54	1/2	2,418.25	1/2	2,057.96
3/4		3/4	4,921.11	3/4	4,572.48	3/4	4,212.19	3/4	3,851.90	3/4	3,491.61	3/4	3,131.32	3/4	2,771.03	3/4	2,410.74	3/4	2,050.45
7		7	4,913.97	7	4,564.97	7	4,204.68	7	3,844.39	7	3,484.10	7	3,123.81	7	2,763.53	7	2,403.24	7	2,042.95
1/4		1/4	4,906.83	1/4	4,557.46	1/4	4,197.17	1/4	3,836.89	1/4	3,476.59	1/4	3,116.30	1/4	2,756.02	1/4	2,395.73	1/4	2,035.44
1/2		1/2	4,899.69	1/2	4,549.96	1/2	4,189.67	1/2	3,829.38	1/2	3,469.09	1/2	3,108.80	1/2	2,748.51	1/2	2,388.22	1/2	2,027.94
3/4		3/4	4,892.54	3/4	4,542.45	3/4	4,182.16	3/4	3,821.88	3/4	3,461.58	3/4	3,101.29	3/4	2,741.01	3/4	2,380.72	3/4	2,020.43
8		8	4,885.40	8	4,534.94	8	4,174.65	8	3,814.37	8	3,454.08	8	3,093.79	8	2,733.50	8	2,373.21	8	2,012.93
1/4		1/4	4,878.26	1/4	4,527.44	1/4	4,167.15	1/4	3,806.86	1/4	3,446.57	1/4	3,086.28	1/4	2,725.99	1/4	2,365.70	1/4	2,005.42
1/2		1/2	4,871.12	1/2	4,519.93	1/2	4,159.64	1/2	3,799.36	1/2	3,439.06	1/2	3,078.78	1/2	2,718.49	1/2	2,358.20	1/2	1,997.91
3/4		3/4	4,863.97	3/4	4,512.43	3/4	4,152.14	3/4	3,791.85	3/4	3,431.56	3/4	3,071.27	3/4	2,710.98	3/4	2,350.69	3/4	1,990.41
9		9	4,856.83	9	4,504.92	9	4,144.63	9	3,784.34	9	3,424.05	9	3,063.77	9	2,703.48	9	2,343.19	9	1,982.90
1/4		1/4	4,849.69	1/4	4,497.41	1/4	4,137.13	1/4	3,776.84	1/4	3,416.54	1/4	3,056.26	1/4	2,695.97	1/4	2,335.68	1/4	1,975.39
1/2		1/2	4,842.55	1/2	4,489.91	1/2	4,129.62	1/2	3,769.33	1/2	3,409.04	1/2	3,048.75	1/2	2,688.46	1/2	2,328.18	1/2	1,967.89
3/4		3/4	4,835.41	3/4	4,482.40	3/4	4,122.12	3/4	3,761.83	3/4	3,401.53	3/4	3,041.25	3/4	2,680.96	3/4	2,320.67	3/4	1,960.38
10		10	4,828.27	10	4,474.89	10	4,114.61	10	3,754.32	10	3,394.03	10	3,033.74	10	2,673.45	10	2,313.17	10	1,952.88
1/4		1/4	4,821.13	1/4	4,467.39	1/4	4,107.10	1/4	3,746.81	1/4	3,386.52	1/4	3,026.23	1/4	2,665.94	1/4	2,305.66	1/4	1,945.37
1/2		1/2	4,813.99	1/2	4,459.88	1/2	4,099.60	1/2	3,739.31	1/2	3,379.02	1/2	3,018.73	1/2	2,658.44	1/2	2,298.15	1/2	1,937.86
3/4		3/4	4,806.84	3/4	4,452.38	3/4	4,092.09	3/4	3,731.80	3/4	3,371.51	3/4	3,011.22	3/4	2,650.93	3/4	2,290.65	3/4	1,930.36
11		11	4,799.70	11	4,444.87	11	4,084.58	11	3,724.29	11	3,364.01	11	3,003.72	11	2,643.43	11	2,283.14	11	1,922.85
1/4		1/4	4,792.56	1/4	4,437.37	1/4	4,077.08	1/4	3,716.79	1/4	3,356.50	1/4	2,996.21	1/4	2,635.92	1/4	2,275.63	1/4	1,915.34
1/2		1/2	4,785.42	1/2	4,429.86	1/2	4,069.57	1/2	3,709.28	1/2	3,348.99	1/2	2,988.70	1/2	2,628.42	1/2	2,268.13	1/2	1,907.84
3/4		3/4	4,778.27	3/4	4,422.36	3/4	4,062.07	3/4	3,701.78	3/4	3,341.49	3/4	2,981.20	3/4	2,620.91	3/4	2,260.62	3/4	1,900.33

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	1,892.83	0	1,532.54	0	1,172.25	0	811.97	0	451.68	0	97.68	0		0		0		0	
1/4	1,885.32	1/4	1,525.03	1/4	1,164.74	1/4	804.46	1/4	444.17	1/4	90.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,877.82	1/2	1,517.53	1/2	1,157.24	1/2	796.95	1/2	436.66	1/2	83.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,870.31	3/4	1,510.02	3/4	1,149.73	3/4	789.45	3/4	429.16	3/4	76.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,862.81	1	1,502.52	1	1,142.23	1	781.94	1	421.65	1	69.95	1	1	1	1	1	1	1	1
1/4	1,855.30	1/4	1,495.01	1/4	1,134.72	1/4	774.43	1/4	414.14	1/4	63.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,847.79	1/2	1,487.50	1/2	1,127.22	1/2	766.93	1/2	406.64	1/2	56.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,840.29	3/4	1,480.00	3/4	1,119.71	3/4	759.42	3/4	399.13	3/4	49.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,832.78	2	1,472.49	2	1,112.21	2	751.92	2	391.63	2	42.71	2	2	2	2	2	2	2	2
1/4	1,825.27	1/4	1,464.98	1/4	1,104.70	1/4	744.41	1/4	384.12	1/4	37.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,817.77	1/2	1,457.48	1/2	1,097.19	1/2	736.90	1/2	376.62	1/2	32.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,810.26	3/4	1,449.97	3/4	1,089.69	3/4	729.40	3/4	369.11	3/4	26.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,802.76	3	1,442.47	3	1,082.18	3	721.89	3	361.61	3	21.59	3	3	3	3	3	3	3	3
1/4	1,795.25	1/4	1,434.96	1/4	1,074.67	1/4	714.38	1/4	354.10	1/4	18.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,787.74	1/2	1,427.46	1/2	1,067.17	1/2	706.88	1/2	346.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,780.24	3/4	1,419.95	3/4	1,059.66	3/4	699.37	3/4	339.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,772.73	4	1,412.45	4	1,052.16	4	691.87	4	331.58	4	4	4	4	4	4	4	4	4	4
1/4	1,765.22	1/4	1,404.94	1/4	1,044.65	1/4	684.36	1/4	324.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,757.72	1/2	1,397.43	1/2	1,037.14	1/2	676.86	1/2	316.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,750.21	3/4	1,389.93	3/4	1,029.64	3/4	669.35	3/4	309.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,742.71	5	1,382.42	5	1,022.13	5	661.85	5	301.56	5	5	5	5	5	5	5	5	5	5
1/4	1,735.20	1/4	1,374.91	1/4	1,014.62	1/4	654.34	1/4	294.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,727.70	1/2	1,367.41	1/2	1,007.12	1/2	646.83	1/2	286.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,720.19	3/4	1,359.90	3/4	999.61	3/4	639.33	3/4	279.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,712.69	6	1,352.40	6	992.11	6	631.82	6	271.53	6	6	6	6	6	6	6	6	6	6
1/4	1,705.18	1/4	1,344.89	1/4	984.60	1/4	624.31	1/4	264.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,697.67	1/2	1,337.38	1/2	977.10	1/2	616.81	1/2	256.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,690.17	3/4	1,329.88	3/4	969.59	3/4	609.30	3/4	249.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,682.66	7	1,322.37	7	962.09	7	601.80	7	241.51	7	7	7	7	7	7	7	7	7	7
1/4	1,675.15	1/4	1,314.86	1/4	954.58	1/4	594.29	1/4	234.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,667.65	1/2	1,307.36	1/2	947.07	1/2	586.78	1/2	226.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,660.14	3/4	1,299.85	3/4	939.57	3/4	579.28	3/4	218.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,652.64	8	1,292.35	8	932.06	8	571.77	8	211.49	8	8	8	8	8	8	8	8	8	8
1/4	1,645.13	1/4	1,284.84	1/4	924.55	1/4	564.26	1/4	203.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,637.62	1/2	1,277.34	1/2	917.05	1/2	556.76	1/2	196.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,630.12	3/4	1,269.83	3/4	909.54	3/4	549.25	3/4	188.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,622.61	9	1,262.33	9	902.04	9	541.75	9	181.46	9	9	9	9	9	9	9	9	9	9
1/4	1,615.10	1/4	1,254.82	1/4	894.53	1/4	534.24	1/4	174.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,607.60	1/2	1,247.31	1/2	887.02	1/2	526.74	1/2	167.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,600.09	3/4	1,239.81	3/4	879.52	3/4	519.23	3/4	160.23	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,592.59	10	1,232.30	10	872.01	10	511.73	10	153.15	10	10	10	10	10	10	10	10	10	10
1/4	1,585.08	1/4	1,224.79	1/4	864.50	1/4	504.22	1/4	146.22	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,577.58	1/2	1,217.29	1/2	857.00	1/2	496.71	1/2	139.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,570.07	3/4	1,209.78	3/4	849.49	3/4	489.21	3/4	132.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,562.57	11	1,202.28	11	841.99	11	841.99	11	125.42	11	11	11	11	11	11	11	11	11	11
1/4	1,555.06	1/4	1,194.77	1/4	834.48	1/4	474.19	1/4	118.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,547.55	1/2	1,187.26	1/2	826.98	1/2	466.69	1/2	111.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,540.05	3/4	1,179.76	3/4	819.47	3/4	459.18	3/4	104.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

2 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,763.99	0	4,407.34	0	4,047.05	0	3,686.77	0	3,326.47	0	2,966.18	0	2,605.90	0	2,245.61		
1/4	1/4	1/4	1/4	1/4	4,756.85	1/4	4,399.84	1/4	4,039.55	1/4	3,679.26	1/4	3,318.97	1/4	2,958.68	1/4	2,598.39	1/4	2,238.10		
1/2	1/2	1/2	1/2	1/2	5,078.68	1/2	4,749.70	1/2	4,392.33	1/2	4,032.04	1/2	3,671.76	1/2	3,311.46	1/2	2,951.17	1/2	2,590.89	1/2	2,230.60
3/4	3/4	3/4	3/4	3/4	5,074.42	3/4	4,742.56	3/4	4,384.82	3/4	4,024.53	3/4	3,664.25	3/4	3,303.96	3/4	2,943.67	3/4	2,583.38	3/4	2,223.09
1	1	1	1	1	5,069.10	1	4,735.42	1	4,377.32	1	4,017.03	1	3,656.74	1	3,296.45	1	2,936.16	1	2,575.87	1	2,215.58
1/4	1/4	1/4	1/4	1/4	5,063.77	1/4	4,728.28	1/4	4,369.81	1/4	4,009.52	1/4	3,649.24	1/4	3,288.94	1/4	2,928.66	1/4	2,568.37	1/4	2,208.08
1/2	1/2	1/2	1/2	1/2	5,058.45	1/2	4,721.13	1/2	4,362.31	1/2	4,002.02	1/2	3,641.73	1/2	3,281.44	1/2	2,921.15	1/2	2,560.86	1/2	2,200.57
3/4	3/4	3/4	3/4	3/4	5,053.12	3/4	4,713.99	3/4	4,354.80	3/4	3,994.51	3/4	3,634.22	3/4	3,273.93	3/4	2,913.65	3/4	2,553.36	3/4	2,193.07
2	2	2	2	2	5,046.77	2	4,706.76	2	4,347.29	2	3,987.01	2	3,626.71	2	3,266.42	2	2,906.14	2	2,545.85	2	2,185.56
1/4	1/4	1/4	1/4	1/4	5,040.42	1/4	4,699.53	1/4	4,339.79	1/4	3,979.50	1/4	3,619.21	1/4	3,258.92	1/4	2,898.63	1/4	2,538.34	1/4	2,178.06
1/2	1/2	1/2	1/2	1/2	5,034.06	1/2	4,692.29	1/2	4,332.28	1/2	3,972.00	1/2	3,611.70	1/2	3,251.41	1/2	2,891.13	1/2	2,530.84	1/2	2,170.55
3/4	3/4	3/4	3/4	3/4	5,027.71	3/4	4,685.06	3/4	4,324.77	3/4	3,964.49	3/4	3,604.20	3/4	3,243.91	3/4	2,883.62	3/4	2,523.33	3/4	2,163.05
3	3	3	3	3	5,020.70	3	4,677.56	3	4,317.27	3	3,956.98	3	3,596.69	3	3,236.40	3	2,876.11	3	2,515.82	3	2,155.54
1/4	1/4	1/4	1/4	1/4	5,013.69	1/4	4,670.05	1/4	4,309.76	1/4	3,949.48	1/4	3,589.18	1/4	3,228.90	1/4	2,868.61	1/4	2,508.32	1/4	2,148.03
1/2	1/2	1/2	1/2	1/2	5,006.68	1/2	4,662.55	1/2	4,302.26	1/2	3,941.97	1/2	3,581.68	1/2	3,221.39	1/2	2,861.10	1/2	2,500.81	1/2	2,140.53
3/4	3/4	3/4	3/4	3/4	4,999.67	3/4	4,655.04	3/4	4,294.75	3/4	3,934.46	3/4	3,574.17	3/4	3,213.89	3/4	2,853.60	3/4	2,493.31	3/4	2,133.02
4	4	4	4	4	4,992.53	4	4,647.53	4	4,287.25	4	3,926.96	4	3,566.66	4	3,206.38	4	2,846.09	4	2,485.80	4	2,125.51
1/4	1/4	1/4	1/4	1/4	4,985.39	1/4	4,640.03	1/4	4,279.74	1/4	3,919.45	1/4	3,559.16	1/4	3,198.87	1/4	2,838.58	1/4	2,478.30	1/4	2,118.01
1/2	1/2	1/2	1/2	1/2	4,978.25	1/2	4,632.52	1/2	4,272.24	1/2	3,911.95	1/2	3,551.65	1/2	3,191.37	1/2	2,831.08	1/2	2,470.79	1/2	2,110.50
3/4	3/4	3/4	3/4	3/4	4,971.11	3/4	4,625.01	3/4	4,264.73	3/4	3,904.44	3/4	3,544.15	3/4	3,183.86	3/4	2,823.57	3/4	2,463.29	3/4	2,103.00
5	5	5	5	5	4,963.97	5	4,617.51	5	4,257.22	5	3,896.93	5	3,536.64	5	3,176.35	5	2,816.06	5	2,455.78	5	2,095.49
1/4	1/4	1/4	1/4	1/4	4,956.83	1/4	4,610.00	1/4	4,249.72	1/4	3,889.43	1/4	3,529.14	1/4	3,168.85	1/4	2,808.56	1/4	2,448.27	1/4	2,087.98
1/2	1/2	1/2	1/2	1/2	4,949.68	1/2	4,602.50	1/2	4,242.21	1/2	3,881.92	1/2	3,521.63	1/2	3,161.34	1/2	2,801.05	1/2	2,440.77	1/2	2,080.48
3/4	3/4	3/4	3/4	3/4	4,942.54	3/4	4,594.99	3/4	4,234.70	3/4	3,874.41	3/4	3,514.13	3/4	3,153.84	3/4	2,793.55	3/4	2,433.26	3/4	2,072.97
6	6	6	6	6	4,935.40	6	4,587.49	6	4,227.20	6	3,866.91	6	3,506.62	6	3,146.33	6	2,786.04	6	2,425.75	6	2,065.46
1/4	1/4	1/4	1/4	1/4	4,928.26	1/4	4,579.98	1/4	4,219.69	1/4	3,859.40	1/4	3,499.11	1/4	3,138.82	1/4	2,778.54	1/4	2,418.25	1/4	2,059.96
1/2	1/2	1/2	1/2	1/2	4,921.11	1/2	4,572.48	1/2	4,212.19	1/2	3,851.90	1/2	3,491.61	1/2	3,131.32	1/2	2,771.03	1/2	2,410.74	1/2	2,050.45
3/4	3/4	3/4	3/4	3/4	4,913.97	3/4	4,564.97	3/4	4,204.68	3/4	3,844.39	3/4	3,484.10	3/4	3,123.81	3/4	2,763.53	3/4	2,403.24	3/4	2,042.95
7	7	7	7	7	4,906.83	7	4,557.46	7	4,197.17	7	3,836.89	7	3,476.59	7	3,116.30	7	2,756.02	7	2,395.73	7	2,035.44
1/4	1/4	1/4	1/4	1/4	4,899.69	1/4	4,549.96	1/4	4,189.67	1/4	3,829.38	1/4	3,469.09	1/4	3,108.80	1/4	2,748.51	1/4	2,388.22	1/4	2,027.94
1/2	1/2	1/2	1/2	1/2	4,892.54	1/2	4,542.45	1/2	4,182.16	1/2	3,821.88	1/2	3,461.58	1/2	3,101.29	1/2	2,741.01	1/2	2,380.72	1/2	2,020.43
3/4	3/4	3/4	3/4	3/4	4,885.40	3/4	4,534.94	3/4	4,174.65	3/4	3,814.37	3/4	3,454.08	3/4	3,093.79	3/4	2,733.50	3/4	2,373.21	3/4	2,012.93
8	8	8	8	8	4,878.26	8	4,527.44	8	4,167.15	8	3,806.86	8	3,446.57	8	3,086.28	8	2,725.99	8	2,365.70	8	2,005.42
1/4	1/4	1/4	1/4	1/4	4,871.12	1/4	4,519.93	1/4	4,159.64	1/4	3,799.36	1/4	3,439.06	1/4	3,078.78	1/4	2,718.49	1/4	2,358.20	1/4	1,997.91
1/2	1/2	1/2	1/2	1/2	4,863.97	1/2	4,512.43	1/2	4,152.14	1/2	3,791.85	1/2	3,431.56	1/2	3,071.27	1/2	2,710.98	1/2	2,350.69	1/2	1,990.41
3/4	3/4	3/4	3/4	3/4	4,856.83	3/4	4,504.92	3/4	4,144.63	3/4	3,784.34	3/4	3,424.05	3/4	3,063.77	3/4	2,703.48	3/4	2,343.19	3/4	1,982.90
9	9	9	9	9	4,849.69	9	4,497.41	9	4,137.13	9	3,776.84	9	3,416.54	9	3,056.26	9	2,695.97	9	2,335.68	9	1,975.39
1/4	1/4	1/4	1/4	1/4	4,842.55	1/4	4,489.91	1/4	4,129.62	1/4	3,769.33	1/4	3,409.04	1/4	3,048.75	1/4	2,688.46	1/4	2,328.18	1/4	1,967.89
1/2	1/2	1/2	1/2	1/2	4,835.41	1/2	4,482.40	1/2	4,122.12	1/2	3,761.83	1/2	3,401.53	1/2	3,041.25	1/2	2,680.96	1/2	2,320.67	1/2	1,960.38
3/4	3/4	3/4	3/4	3/4	4,828.27	3/4	4,474.89	3/4	4,114.61	3/4	3,754.32	3/4	3,394.03	3/4	3,033.74	3/4	2,673.45	3/4	2,313.17	3/4	1,952.88
10	10	10	10	10	4,821.13	10	4,467.39	10	4,107.10	10	3,746.81	10	3,386.52	10	3,026.23	10	2,665.94	10	2,305.66	10	1,945.37
1/4	1/4	1/4	1/4	1/4	4,813.99	1/4	4,459.88	1/4	4,099.60	1/4	3,739.31	1/4	3,379.02	1/4	3,018.73	1/4	2,658.44	1/4	2,298.15	1/4	1,937.86
1/2	1/2	1/2	1/2	1/2	4,806.84	1/2	4,452.38	1/2	4,092.09	1/2	3,731.80	1/2	3,371.51	1/2	3,011.22	1/2	2,650.93	1/2	2,290.65	1/2	1,930.36
3/4	3/4	3/4	3/4	3/4	4,799.70	3/4	4,444.87	3/4	4,084.58	3/4	3,724.29	3/4	3,364.01	3/4	3,003.72	3/4	2,643.43	3/4	2,283.14	3/4	1,922.85
11	11	11	11	11	4,792.56	11	4,437.37	11	4,077.08	11	3,716.79	11	3,356.50	11	2,996.21	11	2,635.92	11	2,275.63	11	1,915.34
1/4	1/4	1/4	1/4	1/4	4,785.42	1/4	4,429.86	1/4	4,069.57	1/4	3,709.28	1/4	3,348.99	1/4	2,988.70	1/4	2,628.42	1/4	2,268.13	1/4	1,907.84
1/2	1/2	1/2	1/2	1/2	4,778.27	1/2	4,422.36	1/2	4,062.07	1/2	3,701.78	1/2	3,341.49	1/2	2,981.20	1/2	2,620.91	1/2	2,260.62	1/2	1,900.33
3/4	3/4	3/4	3/4	3/4	4,771.13	3/4	4,414.85	3/4	4,054.56	3/4	3,694.27	3/4	3,333.98	3/4	2,973.69	3/4	2,613.41	3/4	2,253.12	3/4	1,892.83

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

2 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	1,885.32	0	1,525.03	0	1,164.74	0	804.46	0	444.17	0	90.75	0		0		0		0	
1/4	1,877.82	1/4	1,517.53	1/4	1,157.24	1/4	796.95	1/4	436.66	1/4	83.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,870.31	1/2	1,510.02	1/2	1,149.73	1/2	789.45	1/2	429.16	1/2	76.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,862.81	3/4	1,502.52	3/4	1,142.23	3/4	781.94	3/4	421.65	3/4	69.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,855.30	1	1,495.01	1	1,134.72	1	774.43	1	414.14	1	63.14	1		1		1		1	
1/4	1,847.79	1/4	1,487.50	1/4	1,127.22	1/4	766.93	1/4	406.64	1/4	56.33	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,840.29	1/2	1,480.00	1/2	1,119.71	1/2	759.42	1/2	399.13	1/2	49.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,832.78	3/4	1,472.49	3/4	1,112.21	3/4	751.92	3/4	391.63	3/4	42.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,825.27	2	1,464.98	2	1,104.70	2	744.41	2	384.12	2	37.43	2		2		2		2	
1/4	1,817.77	1/4	1,457.48	1/4	1,097.19	1/4	736.90	1/4	376.62	1/4	32.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,810.26	1/2	1,449.97	1/2	1,089.69	1/2	729.40	1/2	369.11	1/2	26.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,802.76	3/4	1,442.47	3/4	1,082.18	3/4	721.89	3/4	361.61	3/4	21.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,795.25	3	1,434.96	3	1,074.67	3	714.38	3	354.10	3	18.06	3		3		3		3	
1/4	1,787.74	1/4	1,427.46	1/4	1,067.17	1/4	706.88	1/4	346.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,780.24	1/2	1,419.95	1/2	1,059.66	1/2	699.37	1/2	339.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,772.73	3/4	1,412.45	3/4	1,052.16	3/4	691.87	3/4	331.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,765.22	4	1,404.94	4	1,044.65	4	684.36	4	324.07	4		4		4		4		4	
1/4	1,757.72	1/4	1,397.43	1/4	1,037.14	1/4	676.86	1/4	316.57	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,750.21	1/2	1,389.93	1/2	1,029.64	1/2	669.35	1/2	309.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,742.71	3/4	1,382.42	3/4	1,022.13	3/4	661.85	3/4	301.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,735.20	5	1,374.91	5	1,014.62	5	654.34	5	294.05	5		5		5		5		5	
1/4	1,727.70	1/4	1,367.41	1/4	1,007.12	1/4	646.83	1/4	286.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,720.19	1/2	1,359.90	1/2	999.61	1/2	639.33	1/2	279.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,712.69	3/4	1,352.40	3/4	992.11	3/4	631.82	3/4	271.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,705.18	6	1,344.89	6	984.60	6	624.31	6	264.02	6		6		6		6		6	
1/4	1,697.67	1/4	1,337.38	1/4	977.10	1/4	616.81	1/4	256.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,690.17	1/2	1,329.88	1/2	969.59	1/2	609.30	1/2	249.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,682.66	3/4	1,322.37	3/4	962.09	3/4	601.80	3/4	241.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,675.15	7	1,314.86	7	954.58	7	594.29	7	234.00	7		7		7		7		7	
1/4	1,667.65	1/4	1,307.36	1/4	947.07	1/4	586.78	1/4	226.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,660.14	1/2	1,299.85	1/2	939.57	1/2	579.28	1/2	218.99	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,652.64	3/4	1,292.35	3/4	932.06	3/4	571.77	3/4	211.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,645.13	8	1,284.84	8	924.55	8	564.26	8	203.98	8		8		8		8		8	
1/4	1,637.62	1/4	1,277.34	1/4	917.05	1/4	556.76	1/4	196.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,630.12	1/2	1,269.83	1/2	909.54	1/2	549.25	1/2	188.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,622.61	3/4	1,262.33	3/4	902.04	3/4	541.75	3/4	181.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,615.10	9	1,254.82	9	894.53	9	534.24	9	174.38	9		9		9		9		9	
1/4	1,607.60	1/4	1,247.31	1/4	887.02	1/4	526.74	1/4	167.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,600.09	1/2	1,239.81	1/2	879.52	1/2	519.23	1/2	160.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,592.59	3/4	1,232.30	3/4	872.01	3/4	511.73	3/4	153.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,585.08	10	1,224.79	10	864.50	10	504.22	10	146.22	10		10		10		10		10	
1/4	1,577.58	1/4	1,217.29	1/4	857.00	1/4	496.71	1/4	139.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,570.07	1/2	1,209.78	1/2	849.49	1/2	489.21	1/2	132.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,562.57	3/4	1,202.28	3/4	841.99	3/4	481.70	3/4	125.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,555.06	11	1,194.77	11	834.48	11	474.19	11	118.48	11		11		11		11		11	
1/4	1,547.55	1/4	1,187.26	1/4	826.98	1/4	466.69	1/4	111.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,540.05	1/2	1,179.76	1/2	819.47	1/2	459.18	1/2	104.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,532.54	3/4	1,172.25	3/4	811.97	3/4	451.68	3/4	97.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

3 PORT ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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		0		0	4,442.83	0	4,189.20	0	3,935.57	0	3,681.93	0	3,373.95	0	3,010.72	0	2,647.49	0	2,284.25
1/4		1/4		1/4	4,437.55	1/4	4,183.92	1/4	3,930.29	1/4	3,676.65	1/4	3,366.21	1/4	3,003.15	1/4	2,639.92	1/4	2,276.69
1/2		1/2		1/2	4,432.26	1/2	4,178.63	1/2	3,925.00	1/2	3,671.37	1/2	3,358.48	1/2	2,995.59	1/2	2,632.36	1/2	2,269.12
3/4		3/4	4,670.22	3/4	4,426.98	3/4	4,173.35	3/4	3,919.72	3/4	3,666.08	3/4	3,350.74	3/4	2,988.02	3/4	2,624.79	3/4	2,261.56
1		1	4,667.09	1	4,421.69	1	4,168.06	1	3,914.43	1	3,660.80	1	3,343.00	1	2,980.45	1	2,617.22	1	2,253.99
1/4		1/4	4,663.18	1/4	4,416.41	1/4	4,162.78	1/4	3,909.15	1/4	3,655.52	1/4	3,335.60	1/4	2,972.88	1/4	2,609.65	1/4	2,246.42
1/2		1/2	4,659.27	1/2	4,411.13	1/2	4,157.50	1/2	3,903.86	1/2	3,650.23	1/2	3,328.21	1/2	2,965.32	1/2	2,602.09	1/2	2,238.86
3/4		3/4	4,655.35	3/4	4,405.84	3/4	4,152.21	3/4	3,898.58	3/4	3,644.95	3/4	3,320.81	3/4	2,957.75	3/4	2,594.52	3/4	2,231.29
2		2	4,651.44	2	4,400.56	2	4,146.93	2	3,893.29	2	3,639.66	2	3,313.41	2	2,950.18	2	2,586.95	2	2,223.72
1/4		1/4	4,646.75	1/4	4,395.28	1/4	4,141.65	1/4	3,888.01	1/4	3,634.35	1/4	3,305.84	1/4	2,942.61	1/4	2,579.38	1/4	2,216.15
1/2		1/2	4,642.05	1/2	4,389.99	1/2	4,136.36	1/2	3,882.73	1/2	3,629.03	1/2	3,298.28	1/2	2,935.05	1/2	2,571.82	1/2	2,208.59
3/4		3/4	4,637.36	3/4	4,384.71	3/4	4,131.08	3/4	3,877.44	3/4	3,623.72	3/4	3,290.71	3/4	2,927.48	3/4	2,564.25	3/4	2,201.02
3		3	4,632.66	3	4,379.42	3	4,125.79	3	3,872.16	3	3,618.40	3	3,283.14	3	2,919.91	3	2,556.68	3	2,193.45
1/4		1/4	4,627.48	1/4	4,374.14	1/4	4,120.51	1/4	3,866.88	1/4	3,612.84	1/4	3,275.58	1/4	2,912.34	1/4	2,549.11	1/4	2,185.88
1/2		1/2	4,622.29	1/2	4,368.86	1/2	4,115.22	1/2	3,861.59	1/2	3,607.27	1/2	3,268.01	1/2	2,904.78	1/2	2,541.55	1/2	2,178.31
3/4		3/4	4,617.11	3/4	4,363.57	3/4	4,109.94	3/4	3,856.31	3/4	3,601.71	3/4	3,260.45	3/4	2,897.21	3/4	2,533.98	3/4	2,170.75
4		4	4,611.92	4	4,358.29	4	4,104.65	4	3,851.02	4	3,596.14	4	3,252.88	4	2,889.64	4	2,526.41	4	2,163.18
1/4		1/4	4,606.64	1/4	4,353.01	1/4	4,099.37	1/4	3,845.74	1/4	3,590.25	1/4	3,245.31	1/4	2,882.07	1/4	2,518.84	1/4	2,155.61
1/2		1/2	4,601.35	1/2	4,347.72	1/2	4,094.09	1/2	3,840.46	1/2	3,584.36	1/2	3,237.75	1/2	2,874.51	1/2	2,511.28	1/2	2,148.04
3/4		3/4	4,596.07	3/4	4,342.44	3/4	4,088.80	3/4	3,835.17	3/4	3,578.47	3/4	3,230.18	3/4	2,866.94	3/4	2,503.71	3/4	2,140.48
5		5	4,590.78	5	4,337.15	5	4,083.52	5	3,829.89	5	3,572.58	5	3,222.61	5	2,859.37	5	2,496.14	5	2,132.91
1/4		1/4	4,585.50	1/4	4,331.87	1/4	4,078.24	1/4	3,824.61	1/4	3,566.35	1/4	3,215.04	1/4	2,851.80	1/4	2,488.57	1/4	2,125.34
1/2		1/2	4,580.22	1/2	4,326.58	1/2	4,072.95	1/2	3,819.32	1/2	3,560.11	1/2	3,207.48	1/2	2,844.24	1/2	2,481.01	1/2	2,117.77
3/4		3/4	4,574.93	3/4	4,321.30	3/4	4,067.67	3/4	3,814.04	3/4	3,553.88	3/4	3,199.91	3/4	2,836.67	3/4	2,473.44	3/4	2,110.21
6		6	4,569.65	6	4,316.01	6	4,062.38	6	3,808.75	6	3,547.64	6	3,192.34	6	2,829.10	6	2,465.87	6	2,102.64
1/4		1/4	4,564.37	1/4	4,310.73	1/4	4,057.10	1/4	3,803.47	1/4	3,541.06	1/4	3,184.77	1/4	2,821.53	1/4	2,458.30	1/4	2,095.07
1/2		1/2	4,559.08	1/2	4,305.45	1/2	4,051.82	1/2	3,798.18	1/2	3,534.48	1/2	3,177.21	1/2	2,813.97	1/2	2,450.74	1/2	2,087.50
3/4		3/4	4,553.80	3/4	4,300.16	3/4	4,046.53	3/4	3,792.90	3/4	3,527.90	3/4	3,169.64	3/4	2,806.40	3/4	2,443.17	3/4	2,079.94
7		7	4,548.51	7	4,294.88	7	4,041.25	7	3,787.61	7	3,521.32	7	3,162.07	7	2,798.83	7	2,435.60	7	2,072.37
1/4		1/4	4,543.23	1/4	4,289.60	1/4	4,035.97	1/4	3,782.33	1/4	3,514.39	1/4	3,154.50	1/4	2,791.27	1/4	2,428.03	1/4	2,064.80
1/2		1/2	4,537.94	1/2	4,284.31	1/2	4,030.68	1/2	3,777.05	1/2	3,507.47	1/2	3,146.94	1/2	2,783.70	1/2	2,420.47	1/2	2,057.23
3/4		3/4	4,532.66	3/4	4,279.03	3/4	4,025.40	3/4	3,771.76	3/4	3,500.54	3/4	3,139.37	3/4	2,776.14	3/4	2,412.90	3/4	2,049.67
8		8	4,527.37	8	4,273.74	8	4,020.11	8	3,766.48	8	3,493.61	8	3,131.80	8	2,768.57	8	2,405.33	8	2,042.10
1/4		1/4	4,522.09	1/4	4,268.46	1/4	4,014.83	1/4	3,761.20	1/4	3,486.34	1/4	3,124.23	1/4	2,761.00	1/4	2,397.76	1/4	2,034.53
1/2		1/2	4,516.81	1/2	4,263.18	1/2	4,009.54	1/2	3,755.91	1/2	3,479.07	1/2	3,116.67	1/2	2,753.44	1/2	2,390.20	1/2	2,026.96
3/4		3/4	4,511.52	3/4	4,257.89	3/4	4,004.26	3/4	3,750.63	3/4	3,471.79	3/4	3,109.10	3/4	2,745.87	3/4	2,382.63	3/4	2,019.40
9		9	4,506.24	9	4,252.61	9	3,998.97	9	3,745.34	9	3,464.52	9	3,101.53	9	2,738.30	9	2,375.06	9	2,011.83
1/4		1/4	4,500.96	1/4	4,247.33	1/4	3,993.69	1/4	3,740.06	1/4	3,457.01	1/4	3,093.96	1/4	2,730.73	1/4	2,367.49	1/4	2,004.26
1/2		1/2	4,495.67	1/2	4,242.04	1/2	3,988.41	1/2	3,734.78	1/2	3,449.51	1/2	3,086.40	1/2	2,723.17	1/2	2,359.93	1/2	1,996.69
3/4		3/4	4,490.39	3/4	4,236.76	3/4	3,983.12	3/4	3,729.49	3/4	3,442.00	3/4	3,078.83	3/4	2,715.60	3/4	2,352.36	3/4	1,989.13
10		10	4,485.10	10	4,231.47	10	3,977.84	10	3,724.21	10	3,434.49	10	3,071.26	10	2,708.03	10	2,344.79	10	1,981.56
1/4		1/4	4,479.82	1/4	4,226.19	1/4	3,972.56	1/4	3,718.93	1/4	3,426.92	1/4	3,063.69	1/4	2,700.46	1/4	2,337.22	1/4	1,973.99
1/2		1/2	4,474.54	1/2	4,220.90	1/2	3,967.27	1/2	3,713.64	1/2	3,419.36	1/2	3,056.13	1/2	2,692.90	1/2	2,329.66	1/2	1,966.42
3/4		3/4	4,469.25	3/4	4,215.62	3/4	3,961.99	3/4	3,708.36	3/4	3,411.79	3/4	3,048.56	3/4	2,685.33	3/4	2,322.09	3/4	1,958.86
11		11	4,463.97	11	4,210.33	11	3,956.70	11	3,703.07	11	3,404.22	11	3,040.99	11	2,677.76	11	2,314.52	11	1,951.29
1/4		1/4	4,458.69	1/4	4,205.05	1/4	3,951.42	1/4	3,697.79	1/4	3,396.65	1/4	3,033.42	1/4	2,670.19	1/4	2,306.95	1/4	1,943.72
1/2		1/2	4,453.40	1/2	4,199.77	1/2	3,946.14	1/2	3,692.50	1/2	3,389.09	1/2	3,025.86	1/2	2,662.63	1/2	2,299.39	1/2	1,936.15
3/4		3/4	4,448.12	3/4	4,194.48	3/4	3,940.85	3/4	3,687.22	3/4	3,381.52	3/4	3,018.29	3/4	2,655.06	3/4	2,291.82	3/4	1,928.59

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

GAUGE HEIGHT 15'-03 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	1,921.02	0	1,557.79	0	1,194.56	0	831.06	0	466.50	0	103.91	0		0		0		0	
1/4	1,913.45	1/4	1,550.22	1/4	1,186.99	1/4	823.48	1/4	458.89	1/4	96.54	1/4		1/4		1/4		1/4	
1/2	1,905.88	1/2	1,542.65	1/2	1,179.42	1/2	815.91	1/2	451.28	1/2	89.17	1/2		1/2		1/2		1/2	
3/4	1,898.32	3/4	1,535.09	3/4	1,171.86	3/4	808.33	3/4	443.68	3/4	81.81	3/4		3/4		3/4		3/4	
1	1,890.75	1	1,527.52	1	1,164.29	1	800.76	1	436.07	1	74.44	1		1		1		1	
1/4	1,883.18	1/4	1,519.95	1/4	1,156.72	1/4	793.18	1/4	428.46	1/4	67.20	1/4		1/4		1/4		1/4	
1/2	1,875.61	1/2	1,512.38	1/2	1,149.15	1/2	785.60	1/2	420.85	1/2	59.97	1/2		1/2		1/2		1/2	
3/4	1,868.05	3/4	1,504.82	3/4	1,141.59	3/4	778.03	3/4	413.24	3/4	52.73	3/4		3/4		3/4		3/4	
2	1,860.48	2	1,497.25	2	1,134.02	2	770.45	2	405.63	2	45.50	2		2		2		2	
1/4	1,852.91	1/4	1,489.68	1/4	1,126.45	1/4	762.87	1/4	398.02	1/4	39.90	1/4		1/4		1/4		1/4	
1/2	1,845.34	1/2	1,482.11	1/2	1,118.88	1/2	755.29	1/2	390.41	1/2	34.30	1/2		1/2		1/2		1/2	
3/4	1,837.78	3/4	1,474.55	3/4	1,111.32	3/4	747.72	3/4	382.81	3/4	28.70	3/4		3/4		3/4		3/4	
3	1,830.21	3	1,466.98	3	1,103.75	3	740.14	3	375.20	3	23.10	3		3		3		3	
1/4	1,822.64	1/4	1,459.41	1/4	1,096.18	1/4	732.56	1/4	367.59	1/4	19.31	1/4		1/4		1/4		1/4	
1/2	1,815.07	1/2	1,451.84	1/2	1,088.61	1/2	724.98	1/2	359.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,807.51	3/4	1,444.28	3/4	1,081.05	3/4	717.41	3/4	352.37	3/4		3/4		3/4		3/4		3/4	
4	1,799.94	4	1,436.71	4	1,073.48	4	709.83	4	344.76	4		4		4		4		4	
1/4	1,792.37	1/4	1,429.14	1/4	1,065.91	1/4	702.25	1/4	337.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,784.80	1/2	1,421.57	1/2	1,058.34	1/2	694.67	1/2	329.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,777.24	3/4	1,414.01	3/4	1,050.78	3/4	687.10	3/4	321.93	3/4		3/4		3/4		3/4		3/4	
5	1,769.67	5	1,406.44	5	1,043.21	5	679.52	5	314.32	5		5		5		5		5	
1/4	1,762.10	1/4	1,398.87	1/4	1,035.63	1/4	671.92	1/4	306.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.54	1/2	1,391.30	1/2	1,028.06	1/2	664.32	1/2	299.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.97	3/4	1,383.74	3/4	1,020.48	3/4	656.72	3/4	291.50	3/4		3/4		3/4		3/4		3/4	
6	1,739.41	6	1,376.17	6	1,012.91	6	649.12	6	283.89	6		6		6		6		6	
1/4	1,731.84	1/4	1,368.60	1/4	1,005.33	1/4	641.51	1/4	276.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,724.27	1/2	1,361.03	1/2	997.75	1/2	633.90	1/2	268.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.71	3/4	1,353.47	3/4	990.18	3/4	626.29	3/4	261.06	3/4		3/4		3/4		3/4		3/4	
7	1,709.14	7	1,345.90	7	982.60	7	618.68	7	253.45	7		7		7		7		7	
1/4	1,701.57	1/4	1,338.33	1/4	975.02	1/4	611.07	1/4	245.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,694.00	1/2	1,330.76	1/2	967.45	1/2	603.46	1/2	238.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,686.44	3/4	1,323.20	3/4	959.87	3/4	595.86	3/4	230.63	3/4		3/4		3/4		3/4		3/4	
8	1,678.87	8	1,315.63	8	952.30	8	588.25	8	223.02	8		8		8		8		8	
1/4	1,671.30	1/4	1,308.06	1/4	944.72	1/4	580.64	1/4	215.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,663.73	1/2	1,300.49	1/2	937.14	1/2	573.03	1/2	207.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,656.17	3/4	1,292.93	3/4	929.57	3/4	565.42	3/4	200.19	3/4		3/4		3/4		3/4		3/4	
9	1,648.60	9	1,285.36	9	921.99	9	557.81	9	192.58	9		9		9		9		9	
1/4	1,641.03	1/4	1,277.79	1/4	914.41	1/4	550.20	1/4	185.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,633.46	1/2	1,270.23	1/2	906.83	1/2	542.59	1/2	177.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,625.90	3/4	1,262.66	3/4	899.26	3/4	534.99	3/4	170.29	3/4		3/4		3/4		3/4		3/4	
10	1,618.33	10	1,255.10	10	891.68	10	527.38	10	162.86	10		10		10		10		10	
1/4	1,610.76	1/4	1,247.53	1/4	884.10	1/4	519.77	1/4	155.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,603.19	1/2	1,239.96	1/2	876.52	1/2	512.16	1/2	148.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,595.63	3/4	1,232.40	3/4	868.95	3/4	504.55	3/4	140.76	3/4		3/4		3/4		3/4		3/4	
11	1,588.06	11	1,224.83	11	861.37	11	496.94	11	133.39	11		11		11		11		11	
1/4	1,580.49	1/4	1,217.26	1/4	853.79	1/4	489.33	1/4	126.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,572.92	1/2	1,209.69	1/2	846.21	1/2	481.72	1/2	118.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,565.36	3/4	1,202.13	3/4	838.64	3/4	474.11	3/4	111.28	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/08/2011 INSP.
RECALCULATED: 12/03/2021 CL
REPRINTED: 12/03/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021



BARGE "HFL 3081"

3 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,437.55	0	4,183.92	0	3,930.29	0	3,676.65	0	3,366.21	0	3,003.15	0	2,639.92	0	2,276.69		
1/4	1/4	1/4	1/4	1/4	4,432.26	1/4	4,178.63	1/4	3,925.00	1/4	3,671.37	1/4	3,358.48	1/4	2,995.59	1/4	2,632.36	1/4	2,269.12		
1/2	1/2	1/2	1/2	1/2	4,670.22	1/2	4,426.98	1/2	4,173.35	1/2	3,919.72	1/2	3,666.08	1/2	3,350.74	1/2	2,988.02	1/2	2,624.79	1/2	2,261.56
3/4	3/4	3/4	3/4	3/4	4,667.09	3/4	4,421.69	3/4	4,168.06	3/4	3,914.43	3/4	3,660.80	3/4	3,343.00	3/4	2,980.45	3/4	2,617.22	3/4	2,253.99
1	1	1	1	1	4,663.18	1	4,416.41	1	4,162.78	1	3,909.15	1	3,655.52	1	3,335.60	1	2,972.88	1	2,609.65	1	2,246.42
1/4	1/4	1/4	1/4	1/4	4,659.27	1/4	4,411.13	1/4	4,157.50	1/4	3,903.86	1/4	3,650.23	1/4	3,328.21	1/4	2,965.32	1/4	2,602.09	1/4	2,238.86
1/2	1/2	1/2	1/2	1/2	4,655.35	1/2	4,405.84	1/2	4,152.21	1/2	3,898.58	1/2	3,644.95	1/2	3,320.81	1/2	2,957.75	1/2	2,594.52	1/2	2,231.29
3/4	3/4	3/4	3/4	3/4	4,651.44	3/4	4,400.56	3/4	4,146.93	3/4	3,893.29	3/4	3,639.66	3/4	3,313.41	3/4	2,950.18	3/4	2,586.95	3/4	2,223.72
2	2	2	2	2	4,646.75	2	4,395.28	2	4,141.65	2	3,888.01	2	3,634.35	2	3,305.84	2	2,942.61	2	2,579.38	2	2,216.15
1/4	1/4	1/4	1/4	1/4	4,642.05	1/4	4,389.99	1/4	4,136.36	1/4	3,882.73	1/4	3,629.03	1/4	3,298.28	1/4	2,935.05	1/4	2,571.82	1/4	2,208.59
1/2	1/2	1/2	1/2	1/2	4,637.36	1/2	4,384.71	1/2	4,131.08	1/2	3,877.44	1/2	3,623.72	1/2	3,290.71	1/2	2,927.48	1/2	2,564.25	1/2	2,201.02
3/4	3/4	3/4	3/4	3/4	4,632.66	3/4	4,379.42	3/4	4,125.79	3/4	3,872.16	3/4	3,618.40	3/4	3,283.14	3/4	2,919.91	3/4	2,556.68	3/4	2,193.45
3	3	3	3	3	4,627.48	3	4,374.14	3	4,120.51	3	3,866.88	3	3,612.84	3	3,275.58	3	2,912.34	3	2,549.11	3	2,185.88
1/4	1/4	1/4	1/4	1/4	4,622.29	1/4	4,368.86	1/4	4,115.22	1/4	3,861.59	1/4	3,607.27	1/4	3,268.01	1/4	2,904.78	1/4	2,541.55	1/4	2,178.31
1/2	1/2	1/2	1/2	1/2	4,617.11	1/2	4,363.57	1/2	4,109.94	1/2	3,856.31	1/2	3,601.71	1/2	3,260.45	1/2	2,897.21	1/2	2,533.98	1/2	2,170.75
3/4	3/4	3/4	3/4	3/4	4,611.92	3/4	4,358.29	3/4	4,104.65	3/4	3,851.02	3/4	3,596.14	3/4	3,252.88	3/4	2,889.64	3/4	2,526.41	3/4	2,163.18
4	4	4	4	4	4,606.64	4	4,353.01	4	4,099.37	4	3,845.74	4	3,590.25	4	3,245.31	4	2,882.07	4	2,518.84	4	2,155.61
1/4	1/4	1/4	1/4	1/4	4,601.35	1/4	4,347.72	1/4	4,094.09	1/4	3,840.46	1/4	3,584.36	1/4	3,237.75	1/4	2,874.51	1/4	2,511.28	1/4	2,148.04
1/2	1/2	1/2	1/2	1/2	4,596.07	1/2	4,342.44	1/2	4,088.80	1/2	3,835.17	1/2	3,578.47	1/2	3,230.18	1/2	2,866.94	1/2	2,503.71	1/2	2,140.48
3/4	3/4	3/4	3/4	3/4	4,590.78	3/4	4,337.15	3/4	4,083.52	3/4	3,829.89	3/4	3,572.58	3/4	3,222.61	3/4	2,859.37	3/4	2,496.14	3/4	2,132.91
5	5	5	5	5	4,585.50	5	4,331.87	5	4,078.24	5	3,824.61	5	3,566.35	5	3,215.04	5	2,851.80	5	2,488.57	5	2,125.34
1/4	1/4	1/4	1/4	1/4	4,580.22	1/4	4,326.58	1/4	4,072.95	1/4	3,819.32	1/4	3,560.11	1/4	3,207.48	1/4	2,844.24	1/4	2,481.01	1/4	2,117.77
1/2	1/2	1/2	1/2	1/2	4,574.93	1/2	4,321.30	1/2	4,067.67	1/2	3,814.04	1/2	3,553.88	1/2	3,199.91	1/2	2,836.67	1/2	2,473.44	1/2	2,110.21
3/4	3/4	3/4	3/4	3/4	4,569.65	3/4	4,316.01	3/4	4,062.38	3/4	3,808.75	3/4	3,547.64	3/4	3,192.34	3/4	2,829.10	3/4	2,465.87	3/4	2,102.64
6	6	6	6	6	4,564.37	6	4,310.73	6	4,057.10	6	3,803.47	6	3,541.06	6	3,184.77	6	2,821.53	6	2,458.30	6	2,095.07
1/4	1/4	1/4	1/4	1/4	4,559.08	1/4	4,305.45	1/4	4,051.82	1/4	3,798.18	1/4	3,534.48	1/4	3,177.21	1/4	2,813.97	1/4	2,450.74	1/4	2,087.50
1/2	1/2	1/2	1/2	1/2	4,553.80	1/2	4,300.16	1/2	4,046.53	1/2	3,792.90	1/2	3,527.90	1/2	3,169.64	1/2	2,806.40	1/2	2,443.17	1/2	2,079.94
3/4	3/4	3/4	3/4	3/4	4,548.51	3/4	4,294.88	3/4	4,041.25	3/4	3,787.61	3/4	3,521.32	3/4	3,162.07	3/4	2,798.83	3/4	2,435.60	3/4	2,072.37
7	7	7	7	7	4,543.23	7	4,289.60	7	4,035.97	7	3,782.33	7	3,514.39	7	3,154.50	7	2,791.27	7	2,428.03	7	2,064.80
1/4	1/4	1/4	1/4	1/4	4,537.94	1/4	4,284.31	1/4	4,030.68	1/4	3,777.05	1/4	3,507.47	1/4	3,146.94	1/4	2,783.70	1/4	2,420.47	1/4	2,057.23
1/2	1/2	1/2	1/2	1/2	4,532.66	1/2	4,279.03	1/2	4,025.40	1/2	3,771.76	1/2	3,500.54	1/2	3,139.37	1/2	2,776.14	1/2	2,412.90	1/2	2,049.67
3/4	3/4	3/4	3/4	3/4	4,527.37	3/4	4,273.74	3/4	4,020.11	3/4	3,766.48	3/4	3,493.61	3/4	3,131.80	3/4	2,768.57	3/4	2,405.33	3/4	2,042.10
8	8	8	8	8	4,522.09	8	4,268.46	8	4,014.83	8	3,761.20	8	3,486.34	8	3,124.23	8	2,761.00	8	2,397.76	8	2,034.53
1/4	1/4	1/4	1/4	1/4	4,516.81	1/4	4,263.18	1/4	4,009.54	1/4	3,755.91	1/4	3,479.07	1/4	3,116.67	1/4	2,753.44	1/4	2,390.20	1/4	2,026.96
1/2	1/2	1/2	1/2	1/2	4,511.52	1/2	4,257.89	1/2	4,004.26	1/2	3,750.63	1/2	3,471.79	1/2	3,109.10	1/2	2,745.87	1/2	2,382.63	1/2	2,019.40
3/4	3/4	3/4	3/4	3/4	4,506.24	3/4	4,252.61	3/4	3,998.97	3/4	3,745.34	3/4	3,464.52	3/4	3,101.53	3/4	2,738.30	3/4	2,375.06	3/4	2,011.83
9	9	9	9	9	4,500.96	9	4,247.33	9	3,993.69	9	3,740.06	9	3,457.01	9	3,093.96	9	2,730.73	9	2,367.49	9	2,004.26
1/4	1/4	1/4	1/4	1/4	4,495.67	1/4	4,242.04	1/4	3,988.41	1/4	3,734.78	1/4	3,449.51	1/4	3,086.40	1/4	2,723.17	1/4	2,359.93	1/4	1,996.69
1/2	1/2	1/2	1/2	1/2	4,490.39	1/2	4,236.76	1/2	3,983.12	1/2	3,729.49	1/2	3,442.00	1/2	3,078.83	1/2	2,715.60	1/2	2,352.36	1/2	1,989.13
3/4	3/4	3/4	3/4	3/4	4,485.10	3/4	4,231.47	3/4	3,977.84	3/4	3,724.21	3/4	3,434.49	3/4	3,071.26	3/4	2,708.03	3/4	2,344.79	3/4	1,981.56
10	10	10	10	10	4,479.82	10	4,226.19	10	3,972.56	10	3,718.93	10	3,426.92	10	3,063.69	10	2,700.46	10	2,337.22	10	1,973.99
1/4	1/4	1/4	1/4	1/4	4,474.54	1/4	4,220.90	1/4	3,967.27	1/4	3,713.64	1/4	3,419.36	1/4	3,056.13	1/4	2,692.90	1/4	2,329.66	1/4	1,966.42
1/2	1/2	1/2	1/2	1/2	4,469.25	1/2	4,215.62	1/2	3,961.99	1/2	3,708.36	1/2	3,411.79	1/2	3,048.56	1/2	2,685.33	1/2	2,322.09	1/2	1,958.86
3/4	3/4	3/4	3/4	3/4	4,463.97	3/4	4,210.33	3/4	3,956.70	3/4	3,703.07	3/4	3,404.22	3/4	3,040.99	3/4	2,677.76	3/4	2,314.52	3/4	1,951.29
11	11	11	11	11	4,458.69	11	4,205.05	11	3,951.42	11	3,697.79	11	3,396.65	11	3,033.42	11	2,670.19	11	2,306.95	11	1,943.72
1/4	1/4	1/4	1/4	1/4	4,453.40	1/4	4,199.77	1/4	3,946.14	1/4	3,692.50	1/4	3,389.09	1/4	3,025.86	1/4	2,662.63	1/4	2,299.39	1/4	1,936.15
1/2	1/2	1/2	1/2	1/2	4,448.12	1/2	4,194.48	1/2	3,940.85	1/2	3,687.22	1/2	3,381.52	1/2	3,018.29	1/2	2,655.06	1/2	2,291.82	1/2	1,928.59
3/4	3/4	3/4	3/4	3/4	4,442.83	3/4	4,189.20	3/4	3,935.57	3/4	3,681.93	3/4	3,373.95	3/4	3,010.72	3/4	2,647.49	3/4	2,284.25	3/4	1,921.02

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-03" 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 3081"

3 STBD ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HTCO 3081"

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	1,913.45	0	1,550.22	0	1,186.99	0	823.48	0	458.89	0	96.54	0		0		0		0	
1/4	1,905.88	1/4	1,542.65	1/4	1,179.42	1/4	815.91	1/4	451.28	1/4	89.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,898.32	1/2	1,535.09	1/2	1,171.86	1/2	808.33	1/2	443.68	1/2	81.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,890.75	3/4	1,527.52	3/4	1,164.29	3/4	800.76	3/4	436.07	3/4	74.44	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,883.18	1	1,519.95	1	1,156.72	1	793.18	1	428.46	1	67.20	1	1	1	1	1	1	1	1
1/4	1,875.61	1/4	1,512.38	1/4	1,149.15	1/4	785.60	1/4	420.85	1/4	59.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,868.05	1/2	1,504.82	1/2	1,141.59	1/2	778.03	1/2	413.24	1/2	52.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,860.48	3/4	1,497.25	3/4	1,134.02	3/4	770.45	3/4	405.63	3/4	45.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,852.91	2	1,489.68	2	1,126.45	2	762.87	2	398.02	2	39.90	2	2	2	2	2	2	2	2
1/4	1,845.34	1/4	1,482.11	1/4	1,118.88	1/4	755.29	1/4	390.41	1/4	34.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,837.78	1/2	1,474.55	1/2	1,111.32	1/2	747.72	1/2	382.81	1/2	28.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,830.21	3/4	1,466.98	3/4	1,103.75	3/4	740.14	3/4	375.20	3/4	23.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,822.64	3	1,459.41	3	1,096.18	3	732.56	3	367.59	3	19.31	3	3	3	3	3	3	3	3
1/4	1,815.07	1/4	1,451.84	1/4	1,088.61	1/4	724.98	1/4	359.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,807.51	1/2	1,444.28	1/2	1,081.05	1/2	717.41	1/2	352.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.94	3/4	1,436.71	3/4	1,073.48	3/4	709.83	3/4	344.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,792.37	4	1,429.14	4	1,065.91	4	702.25	4	337.15	4	4	4	4	4	4	4	4	4	4
1/4	1,784.80	1/4	1,421.57	1/4	1,058.34	1/4	694.67	1/4	329.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,777.24	1/2	1,414.01	1/2	1,050.78	1/2	687.10	1/2	321.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.67	3/4	1,406.44	3/4	1,043.21	3/4	679.52	3/4	314.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,762.10	5	1,398.87	5	1,035.63	5	671.92	5	306.71	5	5	5	5	5	5	5	5	5	5
1/4	1,754.54	1/4	1,391.30	1/4	1,028.06	1/4	664.32	1/4	299.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.97	1/2	1,383.74	1/2	1,020.48	1/2	656.72	1/2	291.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,739.41	3/4	1,376.17	3/4	1,012.91	3/4	649.12	3/4	283.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,731.84	6	1,368.60	6	1,005.33	6	641.51	6	276.28	6	6	6	6	6	6	6	6	6	6
1/4	1,724.27	1/4	1,361.03	1/4	997.75	1/4	633.90	1/4	268.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.71	1/2	1,353.47	1/2	990.18	1/2	626.29	1/2	261.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,709.14	3/4	1,345.90	3/4	982.60	3/4	618.68	3/4	253.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,701.57	7	1,338.33	7	975.02	7	611.07	7	245.84	7	7	7	7	7	7	7	7	7	7
1/4	1,694.00	1/4	1,330.76	1/4	967.45	1/4	603.46	1/4	238.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,686.44	1/2	1,323.20	1/2	959.87	1/2	595.86	1/2	230.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,678.87	3/4	1,315.63	3/4	952.30	3/4	588.25	3/4	223.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,671.30	8	1,308.06	8	944.72	8	580.64	8	215.41	8	8	8	8	8	8	8	8	8	8
1/4	1,663.73	1/4	1,300.49	1/4	937.14	1/4	573.03	1/4	207.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,656.17	1/2	1,292.93	1/2	929.57	1/2	565.42	1/2	200.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.60	3/4	1,285.36	3/4	921.99	3/4	557.81	3/4	192.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,641.03	9	1,277.79	9	914.41	9	550.20	9	185.15	9	9	9	9	9	9	9	9	9	9
1/4	1,633.46	1/4	1,270.23	1/4	906.83	1/4	542.59	1/4	177.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,625.90	1/2	1,262.66	1/2	899.26	1/2	534.99	1/2	170.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,618.33	3/4	1,255.10	3/4	891.68	3/4	527.38	3/4	162.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,610.76	10	1,247.53	10	884.10	10	519.77	10	155.49	10	10	10	10	10	10	10	10	10	10
1/4	1,603.19	1/4	1,239.96	1/4	876.52	1/4	512.16	1/4	148.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,595.63	1/2	1,232.40	1/2	868.95	1/2	504.55	1/2	140.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,588.06	3/4	1,224.83	3/4	861.37	3/4	496.94	3/4	133.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,580.49	11	1,217.26	11	853.79	11	489.33	11	126.02	11	11	11	11	11	11	11	11	11	11
1/4	1,572.92	1/4	1,209.69	1/4	846.21	1/4	481.72	1/4	118.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,565.36	1/2	1,202.13	1/2	838.64	1/2	474.11	1/2	111.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,557.79	3/4	1,194.56	3/4	831.06	3/4	466.50	3/4	103.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021