



**Barge: " HFL 451"**

**C&C MARINE: Hull Number # 335**

**CONTENTS:**

**Trim Correction Table - 3 Port or Stbd only**

**Innage Tables for Manual Gauging**

**Outage Tables for Manual Ullage Gauging**

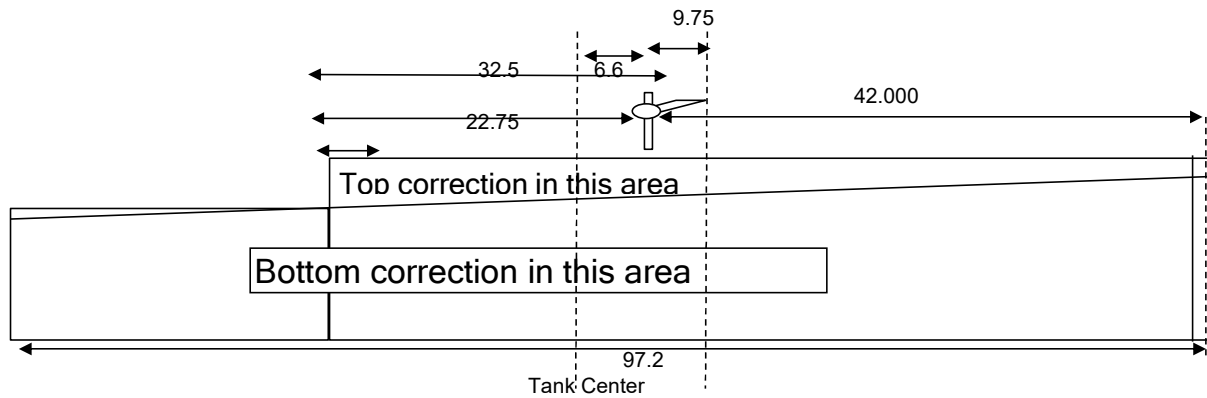
**Closed Gauging Tables for HERMETIC Ullage Gauging**

**INDEPENDENT VESSEL  
CALIBRATION**

BARGE: HFL 451  
 HULL# C&C MARINE 335  
 DATE STRAPPED: 1/31/2020 BY: AP/WHF  
 DATE COMPUTED: 2/7/2020 BY: WHF  
 DATE ISSUED: 2/11/2020

**TRIM CORRECTION - TANK 3 P or S**

**TANK 3 Port or Stbd Only**



**NOTE:** In general, tables do not require corrections for trim due to the gauging point being in the geometric center of tanks.  
 However, due to dropped aft coaming of Tank 3 Port/Stbd, it will be necessary to apply trim correction on innages greater than shown below  
 0.00

**TRIM CORRECTION TABLE - 3 PORT or STBD**

**STERN TRIM**

Innage	Outage	Trim 0' 6"	Trim 1 Ft	Trim 1' 6"	Trim 2 Ft	Trim 2' 6"	Trim 3 Ft	Trim 3' 6"	Trim 4 Ft	Trim 4' 6"	Trim 5 Ft	Trim 5' 6"	Trim 6 Ft
Bottom Correction													
0" to 9' 9"		- 1/8	- 3/8	- 1/2	- 5/8	- 7/8	-1	-1 1/8	-1 1/4	-1 1/2	-1 5/8	-1 3/4	-2
Top Correction													
Above 9' 9"		1/4	1/2	3/4	1	1 1/8	1 3/8	1 5/8	1 7/8	2 1/8	2 3/8	2 5/8	2 7/8

For OUTAGE or HERMETIC (closed gauging) - Reverse sign

**EXAMPLES: Bottom Correction**

**3 PORT**

	Trim 4 Ft	Gauge level	Correction	Corrected level	Barrels
Below 9' 9"	Innage	8' 9 1/4"	-1 1/4	8' 8"	3498.88
More than 5' 11 1/2"	Outage	6' 11"	1 1/4	7' 0 1/4"	3889.56
More than 7' 6"	Closed	8' 5 1/2"	1 1/4	8' 6 3/4"	3498.88

**EXAMPLES: Top Correction**

**3 PORT**

	Trim 1' 6"	Gauge level	Correction	Corrected level	Barrels
Above 9' 9"	Innage	12' 7"	3/4	12' 6 1/4"	4653.74
Less than 5' 11 1/2"	Outage	3' 3"	- 3/4	3' 2 1/4"	4914.95
Less than 7' 6"	Closed	4' 9 1/2"	- 3/4	4' 8 3/4"	4648.19

Independent Vessel  
Calibration

Ship & Barge Calibrators

**BARGE: HFL 451**  
HULL No. C&C Marine # 335



**SLOP TANK PORT**  
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT: 5' 11 1/4"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.	IN	5 FT.
0	56	6	554	0	1,120	6	1,686	0	2,252	6	2,818	0	3,384	6	3,950	0	4,516	6	4,970	0	
1/8	62	1/8	566	1/8	1,132	1/8	1,698	1/8	2,264	1/8	2,830	1/8	3,396	1/8	3,962	1/8	4,528	1/8	4,973	1/8	
1/4	68	1/4	578	1/4	1,144	1/4	1,710	1/4	2,276	1/4	2,842	1/4	3,408	1/4	3,974	1/4	4,540	1/4	4,977	1/4	
3/8	74	3/8	589	3/8	1,155	3/8	1,721	3/8	2,287	3/8	2,853	3/8	3,419	3/8	3,985	3/8	4,551	3/8	4,980	3/8	
1/2	81	1/2	601	1/2	1,167	1/2	1,733	1/2	2,299	1/2	2,865	1/2	3,431	1/2	3,997	1/2	4,563	1/2	4,982	1/2	
5/8	87	5/8	613	5/8	1,179	5/8	1,745	5/8	2,311	5/8	2,877	5/8	3,443	5/8	4,009	5/8	4,575	5/8	4,985	5/8	
3/4	95	3/4	625	3/4	1,191	3/4	1,757	3/4	2,323	3/4	2,889	3/4	3,455	3/4	4,021	3/4	4,587	3/4	4,987	3/4	
7/8	102	7/8	637	7/8	1,203	7/8	1,769	7/8	2,335	7/8	2,901	7/8	3,467	7/8	4,033	7/8	4,599	7/8	4,988	7/8	
1	110	7	648	1	1,214	7	1,780	1	2,346	7	2,912	1	3,478	7	4,044	1	4,610	7	4,990	1	
1/8	118	1/8	660	1/8	1,226	1/8	1,792	1/8	2,358	1/8	2,924	1/8	3,490	1/8	4,056	1/8	4,622	1/8	4,991	1/8	
1/4	126	1/4	672	1/4	1,238	1/4	1,804	1/4	2,370	1/4	2,936	1/4	3,502	1/4	4,068	1/4	4,634	1/4	4,992	1/4	
3/8	134	3/8	684	3/8	1,250	3/8	1,816	3/8	2,382	3/8	2,948	3/8	3,514	3/8	4,080	3/8	4,646	3/8	4,993	3/8	
1/2	143	1/2	696	1/2	1,262	1/2	1,828	1/2	2,394	1/2	2,960	1/2	3,526	1/2	4,092	1/2	4,657	1/2		1/2	
5/8	152	5/8	707	5/8	1,273	5/8	1,839	5/8	2,405	5/8	2,971	5/8	3,537	5/8	4,103	5/8	4,669	5/8		5/8	
3/4	162	3/4	719	3/4	1,285	3/4	1,851	3/4	2,417	3/4	2,983	3/4	3,549	3/4	4,115	3/4	4,681	3/4		3/4	
7/8	171	7/8	731	7/8	1,297	7/8	1,863	7/8	2,429	7/8	2,995	7/8	3,561	7/8	4,127	7/8	4,693	7/8		7/8	
2	181	8	743	2	1,309	8	1,875	2	2,441	8	3,007	2	3,573	8	4,139	2	4,705	8		2	
1/8	192	1/8	755	1/8	1,321	1/8	1,887	1/8	2,453	1/8	3,019	1/8	3,585	1/8	4,151	1/8	4,716	1/8		1/8	
1/4	202	1/4	766	1/4	1,332	1/4	1,898	1/4	2,464	1/4	3,030	1/4	3,596	1/4	4,162	1/4	4,728	1/4		1/4	
3/8	213	3/8	778	3/8	1,344	3/8	1,910	3/8	2,476	3/8	3,042	3/8	3,608	3/8	4,174	3/8	4,740	3/8		3/8	
1/2	224	1/2	790	1/2	1,356	1/2	1,922	1/2	2,488	1/2	3,054	1/2	3,620	1/2	4,186	1/2	4,752	1/2		1/2	
5/8	236	5/8	802	5/8	1,368	5/8	1,934	5/8	2,500	5/8	3,066	5/8	3,632	5/8	4,198	5/8	4,763	5/8		5/8	
3/4	248	3/4	814	3/4	1,380	3/4	1,946	3/4	2,512	3/4	3,078	3/4	3,644	3/4	4,210	3/4	4,775	3/4		3/4	
7/8	259	7/8	825	7/8	1,391	7/8	1,957	7/8	2,523	7/8	3,089	7/8	3,655	7/8	4,221	7/8	4,786	7/8		7/8	
3	271	9	837	3	1,403	9	1,969	3	2,535	9	3,101	3	3,667	9	4,233	3	4,797	9		3	
1/8	283	1/8	849	1/8	1,415	1/8	1,981	1/8	2,547	1/8	3,113	1/8	3,679	1/8	4,245	1/8	4,807	1/8		1/8	
1/4	295	1/4	861	1/4	1,427	1/4	1,993	1/4	2,559	1/4	3,125	1/4	3,691	1/4	4,257	1/4	4,818	1/4		1/4	
3/8	306	3/8	872	3/8	1,438	3/8	2,004	3/8	2,570	3/8	3,136	3/8	3,702	3/8	4,268	3/8	4,828	3/8		3/8	
1/2	318	1/2	884	1/2	1,450	1/2	2,016	1/2	2,582	1/2	3,148	1/2	3,714	1/2	4,280	1/2	4,838	1/2		1/2	
5/8	330	5/8	896	5/8	1,462	5/8	2,028	5/8	2,594	5/8	3,160	5/8	3,726	5/8	4,292	5/8	4,847	5/8		5/8	
3/4	342	3/4	908	3/4	1,474	3/4	2,040	3/4	2,606	3/4	3,172	3/4	3,738	3/4	4,304	3/4	4,856	3/4		3/4	
7/8	354	7/8	920	7/8	1,486	7/8	2,052	7/8	2,618	7/8	3,184	7/8	3,750	7/8	4,316	7/8	4,865	7/8		7/8	
4	365	10	931	4	1,497	10	2,063	4	2,629	10	3,195	4	3,761	10	4,327	4	4,873	10		4	
1/8	377	1/8	943	1/8	1,509	1/8	2,075	1/8	2,641	1/8	3,207	1/8	3,773	1/8	4,339	1/8	4,882	1/8		1/8	
1/4	389	1/4	955	1/4	1,521	1/4	2,087	1/4	2,653	1/4	3,219	1/4	3,785	1/4	4,351	1/4	4,890	1/4		1/4	
3/8	401	3/8	967	3/8	1,533	3/8	2,099	3/8	2,665	3/8	3,231	3/8	3,797	3/8	4,363	3/8	4,897	3/8		3/8	
1/2	413	1/2	979	1/2	1,545	1/2	2,111	1/2	2,677	1/2	3,243	1/2	3,809	1/2	4,375	1/2	4,905	1/2		1/2	
5/8	424	5/8	990	5/8	1,556	5/8	2,122	5/8	2,688	5/8	3,254	5/8	3,820	5/8	4,386	5/8	4,912	5/8		5/8	
3/4	436	3/4	1,002	3/4	1,568	3/4	2,134	3/4	2,700	3/4	3,266	3/4	3,832	3/4	4,398	3/4	4,918	3/4		3/4	
7/8	448	7/8	1,014	7/8	1,580	7/8	2,146	7/8	2,712	7/8	3,278	7/8	3,844	7/8	4,410	7/8	4,925	7/8		7/8	
5	460	11	1,026	5	1,592	11	2,158	5	2,724	11	3,290	5	3,856	11	4,422	5	4,931	11		5	
1/8	472	1/8	1,038	1/8	1,604	1/8	2,170	1/8	2,736	1/8	3,302	1/8	3,868	1/8	4,434	1/8	4,937	1/8		1/8	
1/4	483	1/4	1,049	1/4	1,615	1/4	2,181	1/4	2,747	1/4	3,313	1/4	3,879	1/4	4,445	1/4	4,943	1/4		1/4	
3/8	495	3/8	1,061	3/8	1,627	3/8	2,193	3/8	2,759	3/8	3,325	3/8	3,891	3/8	4,457	3/8	4,948	3/8		3/8	
1/2	507	1/2	1,073	1/2	1,639	1/2	2,205	1/2	2,771	1/2	3,337	1/2	3,903	1/2	4,469	1/2	4,953	1/2		1/2	
5/8	519	5/8	1,085	5/8	1,651	5/8	2,217	5/8	2,783	5/8	3,349	5/8	3,915	5/8	4,481	5/8	4,958	5/8		5/8	
3/4	531	3/4	1,097	3/4	1,663	3/4	2,229	3/4	2,795	3/4	3,361	3/4	3,927	3/4	4,493	3/4	4,962	3/4		3/4	
7/8	542	7/8	1,108	7/8	1,674	7/8	2,240	7/8	2,806	7/8	3,372	7/8	3,938	7/8	4,504	7/8	4,966	7/8		7/8	

CAPACITY AT ZERO IS THE VOLUMES AT THE GAUGE POINT DUE TO TANK BOTTOM SLOPE.

DATE STRAPPED: 12-19-2019 BY: AP

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 1/27/2020

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

IVC MARINE



CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT: 5' 11 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.	IN	5 FT.
<b>0</b>	56	<b>6</b>	553	<b>0</b>	1,118	<b>6</b>	1,682	<b>0</b>	2,247	<b>6</b>	2,812	<b>0</b>	3,377	<b>6</b>	3,941	<b>0</b>	4,506	<b>6</b>	4,960	<b>0</b>	
1/8	62	1/8	565	1/8	1,129	1/8	1,694	1/8	2,259	1/8	2,824	1/8	3,388	1/8	3,953	1/8	4,518	1/8	4,963	1/8	
1/4	68	1/4	576	1/4	1,141	1/4	1,706	1/4	2,271	1/4	2,835	1/4	3,400	1/4	3,965	1/4	4,530	1/4	4,967	1/4	
3/8	74	3/8	588	3/8	1,153	3/8	1,718	3/8	2,282	3/8	2,847	3/8	3,412	3/8	3,977	3/8	4,541	3/8	4,969	3/8	
1/2	80	1/2	600	1/2	1,165	1/2	1,729	1/2	2,294	1/2	2,859	1/2	3,424	1/2	3,988	1/2	4,553	1/2	4,972	1/2	
5/8	87	5/8	612	5/8	1,176	5/8	1,741	5/8	2,306	5/8	2,871	5/8	3,435	5/8	4,000	5/8	4,565	5/8	4,974	5/8	
3/4	94	3/4	624	3/4	1,188	3/4	1,753	3/4	2,318	3/4	2,882	3/4	3,447	3/4	4,012	3/4	4,577	3/4	4,977	3/4	
7/8	102	7/8	635	7/8	1,200	7/8	1,765	7/8	2,330	7/8	2,894	7/8	3,459	7/8	4,024	7/8	4,588	7/8	4,978	7/8	
<b>1</b>	110	<b>7</b>	647	<b>1</b>	1,212	<b>7</b>	1,777	<b>1</b>	2,341	<b>7</b>	2,906	<b>1</b>	3,471	<b>7</b>	4,036	<b>1</b>	4,600	<b>7</b>	4,980	<b>1</b>	
1/8	117	1/8	659	1/8	1,224	1/8	1,788	1/8	2,353	1/8	2,918	1/8	3,483	1/8	4,047	1/8	4,612	1/8	4,981	1/8	
1/4	126	1/4	671	1/4	1,235	1/4	1,800	1/4	2,365	1/4	2,930	1/4	3,494	1/4	4,059	1/4	4,624	1/4	4,982	1/4	
3/8	134	3/8	682	3/8	1,247	3/8	1,812	3/8	2,377	3/8	2,941	3/8	3,506	3/8	4,071	3/8	4,636	3/8	4,982	3/8	
1/2	143	1/2	694	1/2	1,259	1/2	1,824	1/2	2,388	1/2	2,953	1/2	3,518	1/2	4,083	1/2	4,647	1/2		1/2	
5/8	152	5/8	706	5/8	1,271	5/8	1,835	5/8	2,400	5/8	2,965	5/8	3,530	5/8	4,094	5/8	4,659	5/8		5/8	
3/4	161	3/4	718	3/4	1,282	3/4	1,847	3/4	2,412	3/4	2,977	3/4	3,541	3/4	4,106	3/4	4,671	3/4		3/4	
7/8	171	7/8	729	7/8	1,294	7/8	1,859	7/8	2,424	7/8	2,988	7/8	3,553	7/8	4,118	7/8	4,683	7/8		7/8	
<b>2</b>	181	<b>8</b>	741	<b>2</b>	1,306	<b>8</b>	1,871	<b>2</b>	2,435	<b>8</b>	3,000	<b>2</b>	3,565	<b>8</b>	4,130	<b>2</b>	4,694	<b>8</b>		<b>2</b>	
1/8	191	1/8	753	1/8	1,318	1/8	1,882	1/8	2,447	1/8	3,012	1/8	3,577	1/8	4,141	1/8	4,706	1/8		1/8	
1/4	202	1/4	765	1/4	1,329	1/4	1,894	1/4	2,459	1/4	3,024	1/4	3,588	1/4	4,153	1/4	4,718	1/4		1/4	
3/8	212	3/8	776	3/8	1,341	3/8	1,906	3/8	2,471	3/8	3,035	3/8	3,600	3/8	4,165	3/8	4,730	3/8		3/8	
1/2	223	1/2	788	1/2	1,353	1/2	1,918	1/2	2,482	1/2	3,047	1/2	3,612	1/2	4,177	1/2	4,741	1/2		1/2	
5/8	235	5/8	800	5/8	1,365	5/8	1,929	5/8	2,494	5/8	3,059	5/8	3,624	5/8	4,188	5/8	4,753	5/8		5/8	
3/4	247	3/4	812	3/4	1,377	3/4	1,941	3/4	2,506	3/4	3,071	3/4	3,635	3/4	4,200	3/4	4,765	3/4		3/4	
7/8	259	7/8	824	7/8	1,388	7/8	1,953	7/8	2,518	7/8	3,083	7/8	3,647	7/8	4,212	7/8	4,776	7/8		7/8	
<b>3</b>	271	<b>9</b>	835	<b>3</b>	1,400	<b>9</b>	1,965	<b>3</b>	2,530	<b>9</b>	3,094	<b>3</b>	3,659	<b>9</b>	4,224	<b>3</b>	4,787	<b>9</b>		<b>3</b>	
1/8	282	1/8	847	1/8	1,412	1/8	1,977	1/8	2,541	1/8	3,106	1/8	3,671	1/8	4,236	1/8	4,797	1/8		1/8	
1/4	294	1/4	859	1/4	1,424	1/4	1,988	1/4	2,553	1/4	3,118	1/4	3,683	1/4	4,247	1/4	4,808	1/4		1/4	
3/8	306	3/8	871	3/8	1,435	3/8	2,000	3/8	2,565	3/8	3,130	3/8	3,694	3/8	4,259	3/8	4,818	3/8		3/8	
1/2	318	1/2	882	1/2	1,447	1/2	2,012	1/2	2,577	1/2	3,141	1/2	3,706	1/2	4,271	1/2	4,827	1/2		1/2	
5/8	329	5/8	894	5/8	1,459	5/8	2,024	5/8	2,588	5/8	3,153	5/8	3,718	5/8	4,283	5/8	4,837	5/8		5/8	
3/4	341	3/4	906	3/4	1,471	3/4	2,035	3/4	2,600	3/4	3,165	3/4	3,730	3/4	4,294	3/4	4,846	3/4		3/4	
7/8	353	7/8	918	7/8	1,482	7/8	2,047	7/8	2,612	7/8	3,177	7/8	3,741	7/8	4,306	7/8	4,855	7/8		7/8	
<b>4</b>	365	<b>10</b>	929	<b>4</b>	1,494	<b>10</b>	2,059	<b>4</b>	2,624	<b>10</b>	3,188	<b>4</b>	3,753	<b>10</b>	4,318	<b>4</b>	4,863	<b>10</b>		<b>4</b>	
1/8	376	1/8	941	1/8	1,506	1/8	2,071	1/8	2,635	1/8	3,200	1/8	3,765	1/8	4,330	1/8	4,872	1/8		1/8	
1/4	388	1/4	953	1/4	1,518	1/4	2,082	1/4	2,647	1/4	3,212	1/4	3,777	1/4	4,341	1/4	4,879	1/4		1/4	
3/8	400	3/8	965	3/8	1,529	3/8	2,094	3/8	2,659	3/8	3,224	3/8	3,788	3/8	4,353	3/8	4,887	3/8		3/8	
1/2	412	1/2	976	1/2	1,541	1/2	2,106	1/2	2,671	1/2	3,235	1/2	3,800	1/2	4,365	1/2	4,894	1/2		1/2	
5/8	424	5/8	988	5/8	1,553	5/8	2,118	5/8	2,682	5/8	3,247	5/8	3,812	5/8	4,377	5/8	4,902	5/8		5/8	
3/4	435	3/4	1,000	3/4	1,565	3/4	2,130	3/4	2,694	3/4	3,259	3/4	3,824	3/4	4,388	3/4	4,908	3/4		3/4	
7/8	447	7/8	1,012	7/8	1,577	7/8	2,141	7/8	2,706	7/8	3,271	7/8	3,836	7/8	4,400	7/8	4,915	7/8		7/8	
<b>5</b>	459	<b>11</b>	1,024	<b>5</b>	1,588	<b>11</b>	2,153	<b>5</b>	2,718	<b>11</b>	3,283	<b>5</b>	3,847	<b>11</b>	4,412	<b>5</b>	4,921	<b>11</b>		<b>5</b>	
1/8	471	1/8	1,035	1/8	1,600	1/8	2,165	1/8	2,730	1/8	3,294	1/8	3,859	1/8	4,424	1/8	4,927	1/8		1/8	
1/4	482	1/4	1,047	1/4	1,612	1/4	2,177	1/4	2,741	1/4	3,306	1/4	3,871	1/4	4,436	1/4	4,932	1/4		1/4	
3/8	494	3/8	1,059	3/8	1,624	3/8	2,188	3/8	2,753	3/8	3,318	3/8	3,883	3/8	4,447	3/8	4,938	3/8		3/8	
1/2	506	1/2	1,071	1/2	1,635	1/2	2,200	1/2	2,765	1/2	3,330	1/2	3,894	1/2	4,459	1/2	4,943	1/2		1/2	
5/8	518	5/8	1,082	5/8	1,647	5/8	2,212	5/8	2,777	5/8	3,341	5/8	3,906	5/8	4,471	5/8	4,947	5/8		5/8	
3/4	529	3/4	1,094	3/4	1,659	3/4	2,224	3/4	2,788	3/4	3,353	3/4	3,918	3/4	4,483	3/4	4,952	3/4		3/4	
7/8	541	7/8	1,106	7/8	1,671	7/8	2,235	7/8	2,800	7/8	3,365	7/8	3,930	7/8	4,494	7/8	4,956	7/8		7/8	

CAPACITY AT ZERO IS THE VOLUMES AT THE GAUGE POINT DUE TO TANK BOTTOM SLOPE.

DATE STRAPPED: 12-18-2019 BY: AP  
DATE COMPUTED: 1/9/2020 BY: WHF  
DATE ISSUED: 1/27/2020

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

**IVC MARINE**



CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT: 5' 11 1/4"

IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.	IN	5 FT.	IN	5 FT.	IN	6 FT.
<b>0</b>		<b>6</b>	4,943	<b>0</b>	4,445	<b>6</b>	3,879	<b>0</b>	3,313	<b>6</b>	2,747	<b>0</b>	2,181	<b>6</b>	1,615	<b>0</b>	1,049	<b>6</b>	483	<b>0</b>	27
1/8		1/8	4,937	1/8	4,434	1/8	3,868	1/8	3,302	1/8	2,736	1/8	2,170	1/8	1,604	1/8	1,038	1/8	472	1/8	24
1/4		1/4	4,931	1/4	4,422	1/4	3,856	1/4	3,290	1/4	2,724	1/4	2,158	1/4	1,592	1/4	1,026	1/4	460	1/4	20
3/8		3/8	4,925	3/8	4,410	3/8	3,844	3/8	3,278	3/8	2,712	3/8	2,146	3/8	1,580	3/8	1,014	3/8	448	3/8	17
1/2		1/2	4,918	1/2	4,398	1/2	3,832	1/2	3,266	1/2	2,700	1/2	2,134	1/2	1,568	1/2	1,002	1/2	436	1/2	14
5/8		5/8	4,912	5/8	4,386	5/8	3,820	5/8	3,254	5/8	2,688	5/8	2,122	5/8	1,556	5/8	990	5/8	424	5/8	11
3/4		3/4	4,905	3/4	4,375	3/4	3,809	3/4	3,243	3/4	2,677	3/4	2,111	3/4	1,545	3/4	979	3/4	413	3/4	9
7/8		7/8	4,897	7/8	4,363	7/8	3,797	7/8	3,231	7/8	2,665	7/8	2,099	7/8	1,533	7/8	967	7/8	401	7/8	7
<b>1</b>		<b>7</b>	4,890	<b>1</b>	4,351	<b>7</b>	3,785	<b>1</b>	3,219	<b>7</b>	2,653	<b>1</b>	2,087	<b>7</b>	1,521	<b>1</b>	955	<b>7</b>	389	<b>1</b>	5
1/8		1/8	4,882	1/8	4,339	1/8	3,773	1/8	3,207	1/8	2,641	1/8	2,075	1/8	1,509	1/8	943	1/8	377	1/8	3
1/4		1/4	4,873	1/4	4,327	1/4	3,761	1/4	3,195	1/4	2,629	1/4	2,063	1/4	1,497	1/4	931	1/4	365	1/4	2
3/8		3/8	4,865	3/8	4,316	3/8	3,750	3/8	3,184	3/8	2,618	3/8	2,052	3/8	1,486	3/8	920	3/8	354	3/8	1
1/2		1/2	4,856	1/2	4,304	1/2	3,738	1/2	3,172	1/2	2,606	1/2	2,040	1/2	1,474	1/2	908	1/2	342	1/2	1
5/8		5/8	4,847	5/8	4,292	5/8	3,726	5/8	3,160	5/8	2,594	5/8	2,028	5/8	1,462	5/8	896	5/8	330	5/8	0
3/4		3/4	4,838	3/4	4,280	3/4	3,714	3/4	3,148	3/4	2,582	3/4	2,016	3/4	1,450	3/4	884	3/4	318	3/4	0
7/8		7/8	4,828	7/8	4,268	7/8	3,702	7/8	3,136	7/8	2,570	7/8	2,004	7/8	1,438	7/8	872	7/8	306	7/8	
<b>2</b>		<b>8</b>	4,818	<b>2</b>	4,257	<b>8</b>	3,691	<b>2</b>	3,125	<b>8</b>	2,559	<b>2</b>	1,993	<b>8</b>	1,427	<b>2</b>	861	<b>8</b>	295	<b>2</b>	
1/8		1/8	4,807	1/8	4,245	1/8	3,679	1/8	3,113	1/8	2,547	1/8	1,981	1/8	1,415	1/8	849	1/8	283	1/8	
1/4		1/4	4,797	1/4	4,233	1/4	3,667	1/4	3,101	1/4	2,535	1/4	1,969	1/4	1,403	1/4	837	1/4	271	1/4	
3/8		3/8	4,786	3/8	4,221	3/8	3,655	3/8	3,089	3/8	2,523	3/8	1,957	3/8	1,391	3/8	825	3/8	259	3/8	
1/2		1/2	4,775	1/2	4,210	1/2	3,644	1/2	3,078	1/2	2,512	1/2	1,946	1/2	1,380	1/2	814	1/2	248	1/2	
5/8		5/8	4,763	5/8	4,198	5/8	3,632	5/8	3,066	5/8	2,500	5/8	1,934	5/8	1,368	5/8	802	5/8	236	5/8	
3/4		3/4	4,752	3/4	4,186	3/4	3,620	3/4	3,054	3/4	2,488	3/4	1,922	3/4	1,356	3/4	790	3/4	224	3/4	
7/8		7/8	4,740	7/8	4,174	7/8	3,608	7/8	3,042	7/8	2,476	7/8	1,910	7/8	1,344	7/8	778	7/8	213	7/8	
<b>3</b>		<b>9</b>	4,728	<b>3</b>	4,162	<b>9</b>	3,596	<b>3</b>	3,030	<b>9</b>	2,464	<b>3</b>	1,898	<b>9</b>	1,332	<b>3</b>	766	<b>9</b>	202	<b>3</b>	
1/8		1/8	4,716	1/8	4,151	1/8	3,585	1/8	3,019	1/8	2,453	1/8	1,887	1/8	1,321	1/8	755	1/8	192	1/8	
1/4		1/4	4,705	1/4	4,139	1/4	3,573	1/4	3,007	1/4	2,441	1/4	1,875	1/4	1,309	1/4	743	1/4	181	1/4	
3/8		3/8	4,693	3/8	4,127	3/8	3,561	3/8	2,995	3/8	2,429	3/8	1,863	3/8	1,297	3/8	731	3/8	171	3/8	
1/2		1/2	4,681	1/2	4,115	1/2	3,549	1/2	2,983	1/2	2,417	1/2	1,851	1/2	1,285	1/2	719	1/2	162	1/2	
5/8		5/8	4,669	5/8	4,103	5/8	3,537	5/8	2,971	5/8	2,405	5/8	1,839	5/8	1,273	5/8	707	5/8	152	5/8	
3/4		3/4	4,657	3/4	4,092	3/4	3,526	3/4	2,960	3/4	2,394	3/4	1,828	3/4	1,262	3/4	696	3/4	143	3/4	
7/8	4,993	7/8	4,646	7/8	4,080	7/8	3,514	7/8	2,948	7/8	2,382	7/8	1,816	7/8	1,250	7/8	684	7/8	134	7/8	
<b>4</b>	4,992	<b>10</b>	4,634	<b>4</b>	4,068	<b>10</b>	3,502	<b>4</b>	2,936	<b>10</b>	2,370	<b>4</b>	1,804	<b>10</b>	1,238	<b>4</b>	672	<b>10</b>	126	<b>4</b>	
1/8	4,991	1/8	4,622	1/8	4,056	1/8	3,490	1/8	2,924	1/8	2,358	1/8	1,792	1/8	1,226	1/8	660	1/8	118	1/8	
1/4	4,990	1/4	4,610	1/4	4,044	1/4	3,478	1/4	2,912	1/4	2,346	1/4	1,780	1/4	1,214	1/4	648	1/4	110	1/4	
3/8	4,988	3/8	4,599	3/8	4,033	3/8	3,467	3/8	2,901	3/8	2,335	3/8	1,769	3/8	1,203	3/8	637	3/8	102	3/8	
1/2	4,987	1/2	4,587	1/2	4,021	1/2	3,455	1/2	2,889	1/2	2,323	1/2	1,757	1/2	1,191	1/2	625	1/2	95	1/2	
5/8	4,985	5/8	4,575	5/8	4,009	5/8	3,443	5/8	2,877	5/8	2,311	5/8	1,745	5/8	1,179	5/8	613	5/8	87	5/8	
3/4	4,982	3/4	4,563	3/4	3,997	3/4	3,431	3/4	2,865	3/4	2,299	3/4	1,733	3/4	1,167	3/4	601	3/4	81	3/4	
7/8	4,980	7/8	4,551	7/8	3,985	7/8	3,419	7/8	2,853	7/8	2,287	7/8	1,721	7/8	1,155	7/8	589	7/8	74	7/8	
<b>5</b>	4,977	<b>11</b>	4,540	<b>5</b>	3,974	<b>11</b>	3,408	<b>5</b>	2,842	<b>11</b>	2,276	<b>5</b>	1,710	<b>11</b>	1,144	<b>5</b>	578	<b>11</b>	68	<b>5</b>	
1/8	4,973	1/8	4,528	1/8	3,962	1/8	3,396	1/8	2,830	1/8	2,264	1/8	1,698	1/8	1,132	1/8	566	1/8	62	1/8	
1/4	4,970	1/4	4,516	1/4	3,950	1/4	3,384	1/4	2,818	1/4	2,252	1/4	1,686	1/4	1,120	1/4	554	1/4	56	1/4	
3/8	4,966	3/8	4,504	3/8	3,938	3/8	3,372	3/8	2,806	3/8	2,240	3/8	1,674	3/8	1,108	3/8	542	3/8	51	3/8	
1/2	4,962	1/2	4,493	1/2	3,927	1/2	3,361	1/2	2,795	1/2	2,229	1/2	1,663	1/2	1,097	1/2	531	1/2	45	1/2	
5/8	4,958	5/8	4,481	5/8	3,915	5/8	3,349	5/8	2,783	5/8	2,217	5/8	1,651	5/8	1,085	5/8	519	5/8	40	5/8	
3/4	4,953	3/4	4,469	3/4	3,903	3/4	3,337	3/4	2,771	3/4	2,205	3/4	1,639	3/4	1,073	3/4	507	3/4	36	3/4	
7/8	4,948	7/8	4,457	7/8	3,891	7/8	3,325	7/8	2,759	7/8	2,193	7/8	1,627	7/8	1,061	7/8	495	7/8	31	7/8	

CAPACITY ABOVE GAUGE HEIGHT IS THE VOLUMES AT THE GAUGE POINT DUE TO TANK BOTTOM SLOPE.  
SHADED AREA OF TABLE IS THE VOLUMES BELOW THE STRIKE POINT DUE TO CAMBERED BOTTOM.

DATE STRAPPED: 12-19-2019 BY: AP  
DATE COMPUTED: 1/9/2020 BY: WHF  
DATE ISSUED: 1/27/2020

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES  
OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

IVC MARINE



Ship & Barge Calibrators

**CAPACITIES GIVEN IN WHOLE U.S. GALLONS**

GAUGE HEIGHT: 5' 11 1/2"

IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.	IN	5 FT.	IN	5 FT.	IN	6 FT.
<b>0</b>		<b>6</b>	4,943	<b>0</b>	4,459	<b>6</b>	3,894	<b>0</b>	3,330	<b>6</b>	2,765	<b>0</b>	2,200	<b>6</b>	1,635	<b>0</b>	1,071	<b>6</b>	506	<b>0</b>	36
1/8		1/8	4,938	1/8	4,447	1/8	3,883	1/8	3,318	1/8	2,753	1/8	2,188	1/8	1,624	1/8	1,059	1/8	494	1/8	31
1/4		1/4	4,932	1/4	4,436	1/4	3,871	1/4	3,306	1/4	2,741	1/4	2,177	1/4	1,612	1/4	1,047	1/4	482	1/4	27
3/8		3/8	4,927	3/8	4,424	3/8	3,859	3/8	3,294	3/8	2,730	3/8	2,165	3/8	1,600	3/8	1,035	3/8	471	3/8	24
1/2		1/2	4,921	1/2	4,412	1/2	3,847	1/2	3,283	1/2	2,718	1/2	2,153	1/2	1,588	1/2	1,024	1/2	459	1/2	20
5/8		5/8	4,915	5/8	4,400	5/8	3,836	5/8	3,271	5/8	2,706	5/8	2,141	5/8	1,577	5/8	1,012	5/8	447	5/8	17
3/4		3/4	4,908	3/4	4,388	3/4	3,824	3/4	3,259	3/4	2,694	3/4	2,130	3/4	1,565	3/4	1,000	3/4	435	3/4	14
7/8		7/8	4,902	7/8	4,377	7/8	3,812	7/8	3,247	7/8	2,682	7/8	2,118	7/8	1,553	7/8	988	7/8	424	7/8	11
<b>1</b>		<b>7</b>	4,894	<b>1</b>	4,365	<b>7</b>	3,800	<b>1</b>	3,235	<b>7</b>	2,671	<b>1</b>	2,106	<b>7</b>	1,541	<b>1</b>	976	<b>7</b>	412	<b>1</b>	9
1/8		1/8	4,887	1/8	4,353	1/8	3,788	1/8	3,224	1/8	2,659	1/8	2,094	1/8	1,529	1/8	965	1/8	400	1/8	7
1/4		1/4	4,879	1/4	4,341	1/4	3,777	1/4	3,212	1/4	2,647	1/4	2,082	1/4	1,518	1/4	953	1/4	388	1/4	5
3/8		3/8	4,872	3/8	4,330	3/8	3,765	3/8	3,200	3/8	2,635	3/8	2,071	3/8	1,506	3/8	941	3/8	376	3/8	3
1/2		1/2	4,863	1/2	4,318	1/2	3,753	1/2	3,188	1/2	2,624	1/2	2,059	1/2	1,494	1/2	929	1/2	365	1/2	2
5/8		5/8	4,855	5/8	4,306	5/8	3,741	5/8	3,177	5/8	2,612	5/8	2,047	5/8	1,482	5/8	918	5/8	353	5/8	1
3/4		3/4	4,846	3/4	4,294	3/4	3,730	3/4	3,165	3/4	2,600	3/4	2,035	3/4	1,471	3/4	906	3/4	341	3/4	1
7/8		7/8	4,837	7/8	4,283	7/8	3,718	7/8	3,153	7/8	2,588	7/8	2,024	7/8	1,459	7/8	894	7/8	329	7/8	
<b>2</b>		<b>8</b>	4,827	<b>2</b>	4,271	<b>8</b>	3,706	<b>2</b>	3,141	<b>8</b>	2,577	<b>2</b>	2,012	<b>8</b>	1,447	<b>2</b>	882	<b>8</b>	318	<b>2</b>	
1/8		1/8	4,818	1/8	4,259	1/8	3,694	1/8	3,130	1/8	2,565	1/8	2,000	1/8	1,435	1/8	871	1/8	306	1/8	
1/4		1/4	4,808	1/4	4,247	1/4	3,683	1/4	3,118	1/4	2,553	1/4	1,988	1/4	1,424	1/4	859	1/4	294	1/4	
3/8		3/8	4,797	3/8	4,236	3/8	3,671	3/8	3,106	3/8	2,541	3/8	1,977	3/8	1,412	3/8	847	3/8	282	3/8	
1/2		1/2	4,787	1/2	4,224	1/2	3,659	1/2	3,094	1/2	2,530	1/2	1,965	1/2	1,400	1/2	835	1/2	271	1/2	
5/8		5/8	4,776	5/8	4,212	5/8	3,647	5/8	3,083	5/8	2,518	5/8	1,953	5/8	1,388	5/8	824	5/8	259	5/8	
3/4		3/4	4,765	3/4	4,200	3/4	3,635	3/4	3,071	3/4	2,506	3/4	1,941	3/4	1,377	3/4	812	3/4	247	3/4	
7/8		7/8	4,753	7/8	4,188	7/8	3,624	7/8	3,059	7/8	2,494	7/8	1,929	7/8	1,365	7/8	800	7/8	235	7/8	
<b>3</b>		<b>9</b>	4,741	<b>3</b>	4,177	<b>9</b>	3,612	<b>3</b>	3,047	<b>9</b>	2,482	<b>3</b>	1,918	<b>9</b>	1,353	<b>3</b>	788	<b>9</b>	223	<b>3</b>	
1/8		1/8	4,730	1/8	4,165	1/8	3,600	1/8	3,035	1/8	2,471	1/8	1,906	1/8	1,341	1/8	776	1/8	212	1/8	
1/4		1/4	4,718	1/4	4,153	1/4	3,588	1/4	3,024	1/4	2,459	1/4	1,894	1/4	1,329	1/4	765	1/4	202	1/4	
3/8		3/8	4,706	3/8	4,141	3/8	3,577	3/8	3,012	3/8	2,447	3/8	1,882	3/8	1,318	3/8	753	3/8	191	3/8	
1/2		1/2	4,694	1/2	4,130	1/2	3,565	1/2	3,000	1/2	2,435	1/2	1,871	1/2	1,306	1/2	741	1/2	181	1/2	
5/8		5/8	4,683	5/8	4,118	5/8	3,553	5/8	2,988	5/8	2,424	5/8	1,859	5/8	1,294	5/8	729	5/8	171	5/8	
3/4		3/4	4,671	3/4	4,106	3/4	3,541	3/4	2,977	3/4	2,412	3/4	1,847	3/4	1,282	3/4	718	3/4	161	3/4	
7/8		7/8	4,659	7/8	4,094	7/8	3,530	7/8	2,965	7/8	2,400	7/8	1,835	7/8	1,271	7/8	706	7/8	152	7/8	
<b>4</b>		<b>10</b>	4,647	<b>4</b>	4,083	<b>10</b>	3,518	<b>4</b>	2,953	<b>10</b>	2,388	<b>4</b>	1,824	<b>10</b>	1,259	<b>4</b>	694	<b>10</b>	143	<b>4</b>	
1/8	4,982	1/8	4,636	1/8	4,071	1/8	3,506	1/8	2,941	1/8	2,377	1/8	1,812	1/8	1,247	1/8	682	1/8	134	1/8	
1/4	4,982	1/4	4,624	1/4	4,059	1/4	3,494	1/4	2,930	1/4	2,365	1/4	1,800	1/4	1,235	1/4	671	1/4	126	1/4	
3/8	4,981	3/8	4,612	3/8	4,047	3/8	3,483	3/8	2,918	3/8	2,353	3/8	1,788	3/8	1,224	3/8	659	3/8	117	3/8	
1/2	4,980	1/2	4,600	1/2	4,036	1/2	3,471	1/2	2,906	1/2	2,341	1/2	1,777	1/2	1,212	1/2	647	1/2	110	1/2	
5/8	4,978	5/8	4,588	5/8	4,024	5/8	3,459	5/8	2,894	5/8	2,330	5/8	1,765	5/8	1,200	5/8	635	5/8	102	5/8	
3/4	4,977	3/4	4,577	3/4	4,012	3/4	3,447	3/4	2,882	3/4	2,318	3/4	1,753	3/4	1,188	3/4	624	3/4	94	3/4	
7/8	4,974	7/8	4,565	7/8	4,000	7/8	3,435	7/8	2,871	7/8	2,306	7/8	1,741	7/8	1,176	7/8	612	7/8	87	7/8	
<b>5</b>	4,972	<b>11</b>	4,553	<b>5</b>	3,988	<b>11</b>	3,424	<b>5</b>	2,859	<b>11</b>	2,294	<b>5</b>	1,729	<b>11</b>	1,165	<b>5</b>	600	<b>11</b>	80	<b>5</b>	
1/8	4,969	1/8	4,541	1/8	3,977	1/8	3,412	1/8	2,847	1/8	2,282	1/8	1,718	1/8	1,153	1/8	588	1/8	74	1/8	
1/4	4,967	1/4	4,530	1/4	3,965	1/4	3,400	1/4	2,835	1/4	2,271	1/4	1,706	1/4	1,141	1/4	576	1/4	68	1/4	
3/8	4,963	3/8	4,518	3/8	3,953	3/8	3,388	3/8	2,824	3/8	2,259	3/8	1,694	3/8	1,129	3/8	565	3/8	62	3/8	
1/2	4,960	1/2	4,506	1/2	3,941	1/2	3,377	1/2	2,812	1/2	2,247	1/2	1,682	1/2	1,118	1/2	553	1/2	56	1/2	
5/8	4,956	5/8	4,494	5/8	3,930	5/8	3,365	5/8	2,800	5/8	2,235	5/8	1,671	5/8	1,106	5/8	541	5/8	50	5/8	
3/4	4,952	3/4	4,483	3/4	3,918	3/4	3,353	3/4	2,788	3/4	2,224	3/4	1,659	3/4	1,094	3/4	529	3/4	45	3/4	
7/8	4,947	7/8	4,471	7/8	3,906	7/8	3,341	7/8	2,777	7/8	2,212	7/8	1,647	7/8	1,082	7/8	518	7/8	40	7/8	

CAPACITY ABOVE GAUGE HEIGHT IS THE VOLUMES AT THE GAUGE POINT DUE TO TANK BOTTOM SLOPE.  
SHADED AREA OF TABLE IS THE VOLUMES BELOW THE STRIKE POINT DUE TO CAMBERED BOTTOM.

DATE STRAPPED: 12-19-2019 BY: AP  
DATE COMPUTED: 1/9/2020 BY: WHF  
DATE ISSUED: 1/27/2020

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

IVC MARINE





**CLOSED GAUGING ONLY**

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT: 7' 6"

2 FT.		2 FT.		3 FT.		3 FT.		4 FT.		4 FT.		5 FT.		5 FT.		6 FT.		6 FT.		7 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
<b>0</b>		<b>6</b>		<b>0</b>	4,960	<b>6</b>	4,506	<b>0</b>	3,941	<b>6</b>	3,377	<b>0</b>	2,812	<b>6</b>	2,247	<b>0</b>	1,682	<b>6</b>	1,118	<b>0</b>	553
1/8		1/8		1/8	4,956	1/8	4,494	1/8	3,930	1/8	3,365	1/8	2,800	1/8	2,235	1/8	1,671	1/8	1,106	1/8	541
1/4		1/4		1/4	4,952	1/4	4,483	1/4	3,918	1/4	3,353	1/4	2,788	1/4	2,224	1/4	1,659	1/4	1,094	1/4	529
3/8		3/8		3/8	4,947	3/8	4,471	3/8	3,906	3/8	3,341	3/8	2,777	3/8	2,212	3/8	1,647	3/8	1,082	3/8	518
1/2		1/2		1/2	4,943	1/2	4,459	1/2	3,894	1/2	3,330	1/2	2,765	1/2	2,200	1/2	1,635	1/2	1,071	1/2	506
5/8		5/8		5/8	4,938	5/8	4,447	5/8	3,883	5/8	3,318	5/8	2,753	5/8	2,188	5/8	1,624	5/8	1,059	5/8	494
3/4		3/4		3/4	4,932	3/4	4,436	3/4	3,871	3/4	3,306	3/4	2,741	3/4	2,177	3/4	1,612	3/4	1,047	3/4	482
7/8		7/8		7/8	4,927	7/8	4,424	7/8	3,859	7/8	3,294	7/8	2,730	7/8	2,165	7/8	1,600	7/8	1,035	7/8	471
<b>1</b>		<b>7</b>		<b>1</b>	4,921	<b>7</b>	4,412	<b>1</b>	3,847	<b>7</b>	3,283	<b>1</b>	2,718	<b>7</b>	2,153	<b>1</b>	1,588	<b>7</b>	1,024	<b>1</b>	459
1/8		1/8		1/8	4,915	1/8	4,400	1/8	3,836	1/8	3,271	1/8	2,706	1/8	2,141	1/8	1,577	1/8	1,012	1/8	447
1/4		1/4		1/4	4,908	1/4	4,388	1/4	3,824	1/4	3,259	1/4	2,694	1/4	2,130	1/4	1,565	1/4	1,000	1/4	435
3/8		3/8		3/8	4,902	3/8	4,377	3/8	3,812	3/8	3,247	3/8	2,682	3/8	2,118	3/8	1,553	3/8	988	3/8	424
1/2		1/2		1/2	4,894	1/2	4,365	1/2	3,800	1/2	3,235	1/2	2,671	1/2	2,106	1/2	1,541	1/2	976	1/2	412
5/8		5/8		5/8	4,887	5/8	4,353	5/8	3,788	5/8	3,224	5/8	2,659	5/8	2,094	5/8	1,529	5/8	965	5/8	400
3/4		3/4		3/4	4,879	3/4	4,341	3/4	3,777	3/4	3,212	3/4	2,647	3/4	2,082	3/4	1,518	3/4	953	3/4	388
7/8		7/8		7/8	4,872	7/8	4,330	7/8	3,765	7/8	3,200	7/8	2,635	7/8	2,071	7/8	1,506	7/8	941	7/8	376
<b>2</b>		<b>8</b>		<b>2</b>	4,863	<b>8</b>	4,318	<b>2</b>	3,753	<b>8</b>	3,188	<b>2</b>	2,624	<b>8</b>	2,059	<b>2</b>	1,494	<b>8</b>	929	<b>2</b>	365
1/8		1/8		1/8	4,855	1/8	4,306	1/8	3,741	1/8	3,177	1/8	2,612	1/8	2,047	1/8	1,482	1/8	918	1/8	353
1/4		1/4		1/4	4,846	1/4	4,294	1/4	3,730	1/4	3,165	1/4	2,600	1/4	2,035	1/4	1,471	1/4	906	1/4	341
3/8		3/8		3/8	4,837	3/8	4,283	3/8	3,718	3/8	3,153	3/8	2,588	3/8	2,024	3/8	1,459	3/8	894	3/8	329
1/2		1/2		1/2	4,827	1/2	4,271	1/2	3,706	1/2	3,141	1/2	2,577	1/2	2,012	1/2	1,447	1/2	882	1/2	318
5/8		5/8		5/8	4,818	5/8	4,259	5/8	3,694	5/8	3,130	5/8	2,565	5/8	2,000	5/8	1,435	5/8	871	5/8	306
3/4		3/4		3/4	4,808	3/4	4,247	3/4	3,683	3/4	3,118	3/4	2,553	3/4	1,988	3/4	1,424	3/4	859	3/4	294
7/8		7/8		7/8	4,797	7/8	4,236	7/8	3,671	7/8	3,106	7/8	2,541	7/8	1,977	7/8	1,412	7/8	847	7/8	282
<b>3</b>		<b>9</b>		<b>3</b>	4,787	<b>9</b>	4,224	<b>3</b>	3,659	<b>9</b>	3,094	<b>3</b>	2,530	<b>9</b>	1,965	<b>3</b>	1,400	<b>9</b>	835	<b>3</b>	271
1/8		1/8		1/8	4,776	1/8	4,212	1/8	3,647	1/8	3,083	1/8	2,518	1/8	1,953	1/8	1,388	1/8	824	1/8	259
1/4		1/4		1/4	4,765	1/4	4,200	1/4	3,635	1/4	3,071	1/4	2,506	1/4	1,941	1/4	1,377	1/4	812	1/4	247
3/8		3/8		3/8	4,753	3/8	4,188	3/8	3,624	3/8	3,059	3/8	2,494	3/8	1,929	3/8	1,365	3/8	800	3/8	235
1/2		1/2		1/2	4,741	1/2	4,177	1/2	3,612	1/2	3,047	1/2	2,482	1/2	1,918	1/2	1,353	1/2	788	1/2	223
5/8		5/8		5/8	4,730	5/8	4,165	5/8	3,600	5/8	3,035	5/8	2,471	5/8	1,906	5/8	1,341	5/8	776	5/8	212
3/4		3/4		3/4	4,718	3/4	4,153	3/4	3,588	3/4	3,024	3/4	2,459	3/4	1,894	3/4	1,329	3/4	765	3/4	202
7/8		7/8		7/8	4,706	7/8	4,141	7/8	3,577	7/8	3,012	7/8	2,447	7/8	1,882	7/8	1,318	7/8	753	7/8	191
<b>4</b>		<b>10</b>		<b>4</b>	4,694	<b>10</b>	4,130	<b>4</b>	3,565	<b>10</b>	3,000	<b>4</b>	2,435	<b>10</b>	1,871	<b>4</b>	1,306	<b>10</b>	741	<b>4</b>	181
1/8		1/8		1/8	4,683	1/8	4,118	1/8	3,553	1/8	2,988	1/8	2,424	1/8	1,859	1/8	1,294	1/8	729	1/8	171
1/4		1/4		1/4	4,671	1/4	4,106	1/4	3,541	1/4	2,977	1/4	2,412	1/4	1,847	1/4	1,282	1/4	718	1/4	161
3/8		3/8		3/8	4,659	3/8	4,094	3/8	3,530	3/8	2,965	3/8	2,400	3/8	1,835	3/8	1,271	3/8	706	3/8	152
1/2		1/2		1/2	4,647	1/2	4,083	1/2	3,518	1/2	2,953	1/2	2,388	1/2	1,824	1/2	1,259	1/2	694	1/2	143
5/8		5/8	4,982	5/8	4,636	5/8	4,071	5/8	3,506	5/8	2,941	5/8	2,377	5/8	1,812	5/8	1,247	5/8	682	5/8	134
3/4		3/4	4,982	3/4	4,624	3/4	4,059	3/4	3,494	3/4	2,930	3/4	2,365	3/4	1,800	3/4	1,235	3/4	671	3/4	126
7/8		7/8	4,981	7/8	4,612	7/8	4,047	7/8	3,483	7/8	2,918	7/8	2,353	7/8	1,788	7/8	1,224	7/8	659	7/8	117
<b>5</b>		<b>11</b>	4,980	<b>5</b>	4,600	<b>11</b>	4,036	<b>5</b>	3,471	<b>11</b>	2,906	<b>5</b>	2,341	<b>11</b>	1,777	<b>5</b>	1,212	<b>11</b>	647	<b>5</b>	110
1/8		1/8	4,978	1/8	4,588	1/8	4,024	1/8	3,459	1/8	2,894	1/8	2,330	1/8	1,765	1/8	1,200	1/8	635	1/8	102
1/4		1/4	4,977	1/4	4,577	1/4	4,012	1/4	3,447	1/4	2,882	1/4	2,318	1/4	1,753	1/4	1,188	1/4	624	1/4	94
3/8		3/8	4,974	3/8	4,565	3/8	4,000	3/8	3,435	3/8	2,871	3/8	2,306	3/8	1,741	3/8	1,176	3/8	612	3/8	87
1/2		1/2	4,972	1/2	4,553	1/2	3,988	1/2	3,424	1/2	2,859	1/2	2,294	1/2	1,729	1/2	1,165	1/2	600	1/2	80
5/8		5/8	4,969	5/8	4,541	5/8	3,977	5/8	3,412	5/8	2,847	5/8	2,282	5/8	1,718	5/8	1,153	5/8	588	5/8	74
3/4		3/4	4,967	3/4	4,530	3/4	3,965	3/4	3,400	3/4	2,835	3/4	2,271	3/4	1,706	3/4	1,141	3/4	576	3/4	68
7/8		7/8	4,963	7/8	4,518	7/8	3,953	7/8	3,388	7/8	2,824	7/8	2,259	7/8	1,694	7/8	1,129	7/8	565	7/8	62

CAPACITY ABOVE GAUGE HEIGHT IS THE VOLUMES AT THE GAUGE POINT DUE TO TANK BOTTOM SLOPE.

SHADED AREA OF TABLE IS THE VOLUMES BELOW THE STRIKE POINT DUE TO CAMBERED BOTTOM.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

DATE STRAPPED: 12-19-2019 BY: AP

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 1/27/2020

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

IVC MARINE

Max Ullage 7'6" 56















Independent Vessel Calibration

Ship & Barge Calibrators

BARGE: HFL 451

HULL NO: C&C Marine # 335



1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 7 3/4"

Main data table with columns for depth (0 FT. to 15 FT.) and rows for capacity (0 to 11), including fractional increments.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES

OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED: 01/31/2020 BY: APNWHF

DATE COMPUTED: 01/30/2020 BY: WHF

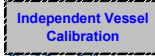
DATE ISSUED: 2/11/2020

IVC MARINE

Signature of representative







5 Mils & Less Calibrators

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

# BARGE: HFL 451

HULL NO: C&C Marine # 335

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK



# 2 PORT ULLAGE TABLE

REFERENCE GAUGE HEIGHT: 15' 8"

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.		IN		10 FT.		IN		11 FT.		IN		12 FT.		IN		13 FT.		IN		14 FT.		IN		15 FT.	
<b>0</b>	5,078.89	<b>0</b>	5,078.89	<b>0</b>	4,795.98	<b>0</b>	4,447.50	<b>0</b>	4,099.03	<b>0</b>	3,748.81	<b>0</b>	3,396.98	<b>0</b>	3,045.16	<b>0</b>	2,693.28	<b>0</b>	2,341.36	<b>0</b>	1,989.61	<b>0</b>	1,637.90	<b>0</b>	1,285.99	<b>0</b>	934.47	<b>0</b>	584.14	<b>0</b>	232.28																																

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 1 1/2" DECK PIPE.

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL.

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 01/31/2020 BY: APNWHF

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 2/11/2020

IVC MARINE



Independent Vessel Calibration

Ship & Barge Calibrators

BARGE: HFL 451

HULL NO: C&C Marine # 335



2 STBD ULLAGE TABLE

Table with columns for depth (0 FT. to 15 FT.) and corresponding ullage measurements. Includes sub-headers for 'CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS' and 'REFERENCE GAUGE HEIGHT: 15' 8"'. The table contains multiple rows of data for each depth interval, with some values highlighted in bold.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPM 2.7

DATE STRAPPED: 01/31/2020 BY: APNWHF
DATE COMPUTED: 1/9/2020 BY: WJF
DATE ISSUED: 2/11/2020

IVC MARINE
[Signature]

Independent Vessel Calibration

Ship & Barge Calibrators

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

BARGE: HFL 451

HULL NO: C&C Marine # 335



3 PORT ULLAGE TABLE

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8 1/4"

Table with columns for depth (0 FT. to 15 FT.) and corresponding capacity values in barrels. Includes rows for 0, 1/4, 1/2, 3/4, and integer depths from 1 to 11.

NOTE: GAUGE POINT: TO TOP TIP OF BALL VALVE, ON 14 1/2" DECK PIPE.

NOTE: GAUGE POINT IS OFF GEOMETRIC CENTER OF TANK - TRIM CORRECTION REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL; OTHERWISE APPLY TRIM CORRECTION

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 01/31/2020 BY: APNWHF

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 2/11/2020

IVC MARINE

Signature

Independent Vessel Calibration

Ship & Barge Calibrators

BARGE: HFL 451

HULL NO: C&C Marine # 335



3 STBD ULLAGE TABLE

Table with columns for Capacities Given in Barrels of 42 U.S. Gallons and Reference Gauge Height: 15' 8 1/2". Rows include depth measurements (0, 1/4, 1/2, 3/4) and capacity values for various points (0 through 15 FT).

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.

NOTE: GAUGE POINT IS OFF GEOMETRIC CENTER OF TANK - TRIM CORRECTION REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL; OTHERWISE APPLY TRIM CORRECTION

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPM 2.7

DATE STRAPPED: 01/31/2020 BY: APW/HF

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 2/11/2020

IVC MARINE



Independent Vessel Calibration

Ship & Barge Calibrators



BARGE: HFL 451

HULL NO: C&C Marine # 335

CLOSED GAUGING ONLY

1 PORT HERMETIC ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-2 1/4"

Table with 17 columns for gauge heights (2 FT. to 17 FT.) and 17 rows for ullage depths (0 to 3/4). Each cell contains capacity values for different gauge types and trim corrections.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGE

OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED: 01/31/2020 BY: APW/HF

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 2/11/2020

IVC MARINE

Signature of IVC Marine representative

**Independent Vessel Calibration**

*Ship & Barge Calibrators*



**BARGE: HFL 451**

HULL NO: C&C Marine # 335

**CLOSED GAUGING ONLY**

**1 STBD  
HERMETIC ULLAGE TABLE**

**FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE**

**HERMETIC GAUGE HEIGHT: 17'-3 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE														HERMETIC GAUGE HEIGHT: 17'-3 1/4"																
	2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0	5,004.52	0	4,922.24	0	4,578.43	0	4,225.39	0	3,872.35	0	3,518.03	0	3,163.60	0	2,809.16	0	2,454.63	0	2,100.11	0	1,745.58	0	1,391.04	0	1,036.50	0	684.73	0	360.79	0	71.19	
1/4	5,004.52	1/4	4,916.35	1/4	4,571.07	1/4	4,218.04	1/4	3,865.00	1/4	3,510.65	1/4	3,156.21	1/4	2,801.78	1/4	2,447.25	1/4	2,092.72	1/4	1,738.19	1/4	1,383.65	1/4	1,029.12	1/4	677.63	1/4	354.40	1/4	65.59	
1/2	5,004.52	1/2	4,910.42	1/2	4,563.72	1/2	4,210.68	1/2	3,857.65	1/2	3,503.27	1/2	3,148.83	1/2	2,794.39	1/2	2,439.86	1/2	2,085.33	1/2	1,730.81	1/2	1,376.26	1/2	1,021.73	1/2	670.55	1/2	348.02	1/2	60.03	
3/4	5,004.52	3/4	4,904.43	3/4	4,556.36	3/4	4,203.33	3/4	3,850.29	3/4	3,495.88	3/4	3,141.45	3/4	2,787.00	3/4	2,432.48	3/4	2,077.95	3/4	1,723.42	3/4	1,368.88	3/4	1,014.35	3/4	663.48	3/4	341.66	3/4	54.62	
<b>1</b>	5,004.52	<b>1</b>	4,897.86	<b>1</b>	4,549.01	<b>1</b>	4,195.97	<b>1</b>	3,842.94	<b>1</b>	3,488.50	<b>1</b>	3,134.06	<b>1</b>	2,779.62	<b>1</b>	2,425.09	<b>1</b>	2,070.56	<b>1</b>	1,716.03	<b>1</b>	1,361.49	<b>1</b>	1,006.97	<b>1</b>	656.43	<b>1</b>	335.32	<b>1</b>	49.48	
1/4	5,004.52	1/4	4,890.74	1/4	4,541.65	1/4	4,188.62	1/4	3,835.55	1/4	3,481.11	1/4	3,126.68	1/4	2,772.23	1/4	2,417.70	1/4	2,063.18	1/4	1,708.65	1/4	1,354.10	1/4	999.58	1/4	649.39	1/4	328.99	1/4	44.60	
1/2	5,004.52	1/2	4,883.61	1/2	4,534.30	1/2	4,181.26	1/2	3,828.17	1/2	3,473.73	1/2	3,119.29	1/2	2,764.85	1/2	2,410.32	1/2	2,055.79	1/2	1,701.26	1/2	1,346.72	1/2	992.20	1/2	642.37	1/2	322.67	1/2	39.99	
3/4	5,004.52	3/4	4,876.49	3/4	4,526.94	3/4	4,173.91	3/4	3,820.78	3/4	3,466.35	3/4	3,111.91	3/4	2,757.46	3/4	2,402.93	3/4	2,048.40	3/4	1,693.88	3/4	1,339.33	3/4	984.81	3/4	635.36	3/4	316.37	3/4	35.64	
<b>2</b>	5,004.52	<b>2</b>	4,869.36	<b>2</b>	4,519.59	<b>2</b>	4,166.55	<b>2</b>	3,813.40	<b>2</b>	3,458.96	<b>2</b>	3,104.53	<b>2</b>	2,750.07	<b>2</b>	2,395.55	<b>2</b>	2,041.02	<b>2</b>	1,686.49	<b>2</b>	1,331.94	<b>2</b>	977.43	<b>2</b>	628.37	<b>2</b>	310.08	<b>2</b>	31.54	
1/4	5,004.52	1/4	4,862.24	1/4	4,512.23	1/4	4,159.20	1/4	3,806.01	1/4	3,451.58	1/4	3,097.14	1/4	2,742.69	1/4	2,388.16	1/4	2,033.63	1/4	1,679.10	1/4	1,324.56	1/4	970.05	1/4	621.39	1/4	303.81	1/4	27.71	
1/2	5,004.52	1/2	4,855.11	1/2	4,504.88	1/2	4,151.84	1/2	3,798.63	1/2	3,444.19	1/2	3,089.76	1/2	2,735.30	1/2	2,380.77	1/2	2,026.25	1/2	1,671.72	1/2	1,317.17	1/2	962.66	1/2	614.43	1/2	297.55	1/2	24.13	
3/4	5,004.52	3/4	4,847.99	3/4	4,497.52	3/4	4,144.49	3/4	3,791.25	3/4	3,436.81	3/4	3,082.37	3/4	2,727.92	3/4	2,373.39	3/4	2,018.86	3/4	1,664.33	3/4	1,309.78	3/4	955.28	3/4	607.48	3/4	291.31	3/4	20.81	
<b>3</b>	5,004.52	<b>3</b>	4,840.86	<b>3</b>	4,490.17	<b>3</b>	4,137.13	<b>3</b>	3,783.86	<b>3</b>	3,429.43	<b>3</b>	3,074.99	<b>3</b>	2,720.53	<b>3</b>	2,366.00	<b>3</b>	2,011.47	<b>3</b>	1,656.95	<b>3</b>	1,302.39	<b>3</b>	947.89	<b>3</b>	600.55	<b>3</b>	285.08	<b>3</b>	17.74	
1/4	5,004.52	1/4	4,833.72	1/4	4,482.81	1/4	4,129.78	1/4	3,776.48	1/4	3,422.04	1/4	3,067.60	1/4	2,713.14	1/4	2,358.62	1/4	2,004.09	1/4	1,649.56	1/4	1,295.01	1/4	940.51	1/4	593.63	1/4	278.87	1/4	14.92	
1/2	5,004.52	1/2	4,826.59	1/2	4,475.46	1/2	4,122.42	1/2	3,769.09	1/2	3,414.66	1/2	3,060.22	1/2	2,705.76	1/2	2,351.23	1/2	1,996.70	1/2	1,642.17	1/2	1,287.62	1/2	933.13	1/2	586.72	1/2	272.67	1/2	14.92	
3/4	5,004.52	3/4	4,819.45	3/4	4,468.10	3/4	4,115.07	3/4	3,761.71	3/4	3,407.27	3/4	3,052.84	3/4	2,698.37	3/4	2,343.84	3/4	1,989.32	3/4	1,634.79	3/4	1,280.23	3/4	925.74	3/4	579.83	3/4	266.49	3/4	3.02	
<b>4</b>	5,004.52	<b>4</b>	4,812.31	<b>4</b>	4,460.75	<b>4</b>	4,107.71	<b>4</b>	3,754.33	<b>4</b>	3,399.89	<b>4</b>	3,045.45	<b>4</b>	2,690.99	<b>4</b>	2,336.46	<b>4</b>	1,981.93	<b>4</b>	1,627.40	<b>4</b>	1,272.85	<b>4</b>	918.36	<b>4</b>	572.96	<b>4</b>	260.32	<b>4</b>	1.92	
1/4	5,004.52	1/4	4,805.16	1/4	4,453.39	1/4	4,100.36	1/4	3,746.94	1/4	3,392.51	1/4	3,038.07	1/4	2,683.60	1/4	2,329.07	1/4	1,974.54	1/4	1,620.02	1/4	1,265.46	1/4	910.97	1/4	566.10	1/4	254.17	1/4	1.92	
1/2	5,004.52	1/2	4,798.01	1/2	4,446.04	1/2	4,093.00	1/2	3,739.56	1/2	3,385.12	1/2	3,030.68	1/2	2,676.21	1/2	2,321.69	1/2	1,967.16	1/2	1,612.63	1/2	1,258.07	1/2	903.59	1/2	559.26	1/2	248.03	1/2	1.92	
3/4	5,004.52	3/4	4,790.86	3/4	4,438.68	3/4	4,085.65	3/4	3,732.17	3/4	3,377.74	3/4	3,023.30	3/4	2,668.83	3/4	2,314.30	3/4	1,959.77	3/4	1,605.24	3/4	1,250.69	3/4	896.20	3/4	552.43	3/4	241.91	3/4	1.92	
<b>5</b>	5,004.52	<b>5</b>	4,783.70	<b>5</b>	4,431.33	<b>5</b>	4,078.29	<b>5</b>	3,724.79	<b>5</b>	3,370.35	<b>5</b>	3,015.92	<b>5</b>	2,661.44	<b>5</b>	2,306.91	<b>5</b>	1,952.39	<b>5</b>	1,597.86	<b>5</b>	1,243.30	<b>5</b>	888.82	<b>5</b>	545.61	<b>5</b>	235.80	<b>5</b>	1.92	
1/4	5,004.52	1/4	4,776.53	1/4	4,423.97	1/4	4,070.94	1/4	3,717.41	1/4	3,362.97	1/4	3,008.53	1/4	2,654.06	1/4	2,299.53	1/4	1,945.00	1/4	1,590.47	1/4	1,235.91	1/4	881.44	1/4	538.81	1/4	229.70	1/4	1.92	
1/2	5,004.52	1/2	4,769.36	1/2	4,416.62	1/2	4,063.58	1/2	3,710.02	1/2	3,355.58	1/2	3,001.15	1/2	2,646.67	1/2	2,292.14	1/2	1,937.61	1/2	1,583.09	1/2	1,228.53	1/2	874.05	1/2	532.03	1/2	223.62	1/2	1.92	
3/4	5,004.52	3/4	4,762.17	3/4	4,409.26	3/4	4,056.23	3/4	3,702.64	3/4	3,348.20	3/4	2,993.76	3/4	2,639.28	3/4	2,284.76	3/4	1,930.23	3/4	1,575.70	3/4	1,221.14	3/4	866.67	3/4	525.26	3/4	217.56	3/4	1.92	
<b>6</b>	5,004.52	<b>6</b>	4,754.94	<b>6</b>	4,401.91	<b>6</b>	4,048.87	<b>6</b>	3,695.25	<b>6</b>	3,340.82	<b>6</b>	2,986.38	<b>6</b>	2,631.90	<b>6</b>	2,277.37	<b>6</b>	1,922.84	<b>6</b>	1,568.31	<b>6</b>	1,213.75	<b>6</b>	859.28	<b>6</b>	518.50	<b>6</b>	211.51	<b>6</b>	1.92	
1/4	5,004.52	1/4	4,747.59	1/4	4,394.55	1/4	4,041.52	1/4	3,687.87	1/4	3,333.43	1/4	2,979.00	1/4	2,624.51	1/4	2,269.98	1/4	1,915.46	1/4	1,560.93	1/4	1,206.37	1/4	851.90	1/4	511.76	1/4	205.47	1/4	1.92	
1/2	5,004.52	1/2	4,740.23	1/2	4,387.20	1/2	4,034.16	1/2	3,680.49	1/2	3,326.05	1/2	2,971.61	1/2	2,617.13	1/2	2,262.60	1/2	1,908.07	1/2	1,553.54	1/2	1,198.98	1/2	844.52	1/2	505.03	1/2	199.45	1/2	1.92	
3/4	5,004.52	3/4	4,732.88	3/4	4,379.84	3/4	4,026.81	3/4	3,673.10	3/4	3,318.66	3/4	2,964.23	3/4	2,609.74	3/4	2,255.21	3/4	1,900.68	3/4	1,546.16	3/4	1,191.59	3/4	837.13	3/4	498.32	3/4	193.45	3/4	1.92	
<b>7</b>	5,004.52	<b>7</b>	4,725.52	<b>7</b>	4,372.49	<b>7</b>	4,019.45	<b>7</b>	3,665.72	<b>7</b>	3,311.28	<b>7</b>	2,956.84	<b>7</b>	2,602.35	<b>7</b>	2,247.83	<b>7</b>	1,893.30	<b>7</b>	1,538.77	<b>7</b>	1,184.21	<b>7</b>	829.75	<b>7</b>	491.63	<b>7</b>	187.46	<b>7</b>	1.92	
1/4	5,004.52	1/4	4,718.17	1/4	4,365.13	1/4	4,012.10	1/4	3,658.33	1/4	3,303.90	1/4	2,949.46	1/4	2,594.97	1/4	2,240.44	1/4	1,885.91	1/4	1,531.38	1/4	1,176.82	1/4	822.36	1/4	484.94	1/4	181.48	1/4	1.92	
1/2	5,004.52	1/2	4,710.81	1/2	4,357.78	1/2	4,004.74	1/2	3,650.95	1/2	3,296.51	1/2	2,942.08	1/2	2,587.58	1/2	2,233.05	1/2	1,878.53	1/2	1,524.00	1/2</										

Independent Vessel Calibration  
Since 1956



# BARGE: HFL 451

HULL NO: C&C Marine # 335

CLOSED GAUGING ONLY

## 2 PORT HERMETIC ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-2 1/2"

IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.
<b>0</b>	5,078.89	<b>0</b>	4,979.55	<b>0</b>	4,636.26	<b>0</b>	4,287.78	<b>0</b>	3,939.31	<b>0</b>	3,587.55	<b>0</b>	3,235.73	<b>0</b>	2,883.90	<b>0</b>	2,531.98	<b>0</b>	2,180.06	<b>0</b>	1,828.48	<b>0</b>	1,476.60	<b>0</b>	1,124.79	<b>0</b>	774.00	<b>0</b>	422.87	<b>0</b>	72.15

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE  
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.  
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL.  
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 01/31/2020 BY: AP/WHF  
DATE COMPUTED: 1/9/2020 BY: WHF  
DATE ISSUED: 2/11/2020



IVC MARINE

Independent Vessel Calibration

Ship & Barge Calibrators



BARGE: HFL 451

HULL NO: C&C Marine # 335

CLOSED GAUGING ONLY

2 STBD HERMETIC ULLAGE TABLE

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-2 1/2"

Table with columns for capacities in barrels of 42 U.S. gallons (2 FT. to 17 FT.) and rows for different gauge heights (0, 1/4, 1/2, 3/4).

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 01/31/2020 BY: APW/HF
DATE COMPUTED: 1/9/2020 BY: WHF
DATE ISSUED: 2/11/2020

IVC MARINE





Independent Vessel Calibration

Ship & Barge Calibrators

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS



BARGE: HFL 451

HULL NO: C&C Marine # 335

CLOSED GAUGING ONLY

3 PORT HERMETIC ULLAGE TABLE

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-2 3/4"

Table with columns for gauge height (IN) and capacity (FT.) for various gauges (0-11) and depths (1/4, 1/2, 3/4). Includes capacity values in barrels of 42 U.S. gallons.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

NOTE: GAUGE POINT IS OFF GEOMETRIC CENTER OF TANK - TRIM CORRECTION REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL; OTHERWISE APPLY TRIM CORRECTION

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 01/31/2020 BY: APNWHF

DATE COMPUTED: 1/9/2020 BY: WHF

DATE ISSUED: 2/11/2020

IVC MARINE

Signature of IVC Marine representative

Independent Vessel Calibration

Ship & Barge Calibrators



BARGE: HFL 451

HULL NO: C&C Marine # 335

CLOSED GAUGING ONLY

3 STBD HERMETIC ULLAGE TABLE

Table with columns for capacities in barrels of 42 U.S. gallons (2 FT. to 17 FT.) and rows for different gauging heights (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11). Each cell contains a value representing the capacity at that specific height and gauge.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE
NOTE: GAUGE POINT IS OFF GEOMETRIC CENTER OF TANK - TRIM CORRECTION REQUIRED.
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL; OTHERWISE APPLY TRIM CORRECTION
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 01/31/2020 BY: APW/HF
DATE COMPUTED: 1/9/2020 BY: WHF
DATE ISSUED: 2/11/2020

IVC MARINE
Signature