



# BARGE "CTCo 354"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
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	00-3/8	- 00-3/8	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 - 00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 237'-06"

March 14, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 354"

## 1 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 14'-10"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	4,291.24	0	4,011.61	0	3,732.34	0	3,431.41	0	3,109.90	0	2,778.41	0	2,446.92	0	2,115.43	0	1,783.93
1/4	1/4	1/4	4,284.74	1/4	4,005.99	1/4	3,726.29	1/4	3,424.90	1/4	3,103.00	1/4	2,771.51	1/4	2,440.01	1/4	2,108.52	1/4	1,777.03
1/2	1/2	1/2	4,278.24	1/2	4,000.36	1/2	3,720.24	1/2	3,418.40	1/2	3,096.09	1/2	2,764.60	1/2	2,433.11	1/2	2,101.61	1/2	1,770.12
3/4	3/4	3/4	4,271.74	3/4	3,994.74	3/4	3,714.20	3/4	3,411.90	3/4	3,089.19	3/4	2,757.69	3/4	2,426.20	3/4	2,094.71	3/4	1,763.21
1	1	1	4,265.24	1	3,989.11	1	3,708.15	1	3,405.39	1	3,082.28	1	2,750.79	1	2,419.29	1	2,087.80	1	1,756.31
1/4	1/4	1/4	4,258.74	1/4	3,983.44	1/4	3,702.07	1/4	3,398.86	1/4	3,075.37	1/4	2,743.88	1/4	2,412.39	1/4	2,080.90	1/4	1,749.40
1/2	1/2	1/2	4,252.24	1/2	3,977.78	1/2	3,695.98	1/2	3,392.33	1/2	3,068.47	1/2	2,736.97	1/2	2,405.48	1/2	2,073.99	1/2	1,742.50
3/4	3/4	3/4	4,245.74	3/4	3,972.11	3/4	3,689.89	3/4	3,385.80	3/4	3,061.56	3/4	2,730.07	3/4	2,398.58	3/4	2,067.08	3/4	1,735.59
2	2	2	4,239.24	2	3,966.45	2	3,683.81	2	3,379.27	2	3,054.66	2	2,723.16	2	2,391.67	2	2,060.18	2	1,728.68
1/4	1/4	1/4	4,232.74	1/4	3,960.75	1/4	3,677.66	1/4	3,372.70	1/4	3,047.75	1/4	2,716.26	1/4	2,384.76	1/4	2,053.27	1/4	1,721.78
1/2	1/2	1/2	4,226.24	1/2	3,955.05	1/2	3,671.50	1/2	3,366.12	1/2	3,040.84	1/2	2,709.35	1/2	2,377.86	1/2	2,046.36	1/2	1,714.87
3/4	3/4	3/4	4,219.74	3/4	3,949.35	3/4	3,665.35	3/4	3,359.55	3/4	3,033.94	3/4	2,702.44	3/4	2,370.95	3/4	2,039.46	3/4	1,707.97
3	3	3	4,213.24	3	3,943.66	3	3,659.20	3	3,352.98	3	3,027.03	3	2,695.54	3	2,364.05	3	2,032.55	3	1,701.06
1/4	1/4	1/4	4,206.77	1/4	3,937.92	1/4	3,653.01	1/4	3,346.37	1/4	3,020.12	1/4	2,688.63	1/4	2,357.14	1/4	2,025.65	1/4	1,694.15
1/2	1/2	1/2	4,200.30	1/2	3,932.18	1/2	3,646.81	1/2	3,339.75	1/2	3,013.22	1/2	2,681.73	1/2	2,350.23	1/2	2,018.74	1/2	1,687.25
3/4	3/4	3/4	4,193.84	3/4	3,926.44	3/4	3,640.62	3/4	3,333.14	3/4	3,006.31	3/4	2,674.82	3/4	2,343.33	3/4	2,011.83	3/4	1,680.34
4	4	4	4,187.37	4	3,920.70	4	3,634.43	4	3,326.53	4	2,999.41	4	2,667.91	4	2,336.42	4	2,004.93	4	1,673.44
1/4	1/4	1/4	4,180.91	1/4	3,914.93	1/4	3,628.20	1/4	3,319.89	1/4	2,992.50	1/4	2,661.01	1/4	2,329.51	1/4	1,998.02	1/4	1,666.53
1/2	1/2	1/2	4,174.44	1/2	3,909.16	1/2	3,621.98	1/2	3,313.24	1/2	2,985.59	1/2	2,654.10	1/2	2,322.61	1/2	1,991.12	1/2	1,659.62
3/4	3/4	3/4	4,167.98	3/4	3,903.39	3/4	3,615.76	3/4	3,306.60	3/4	2,978.69	3/4	2,647.20	3/4	2,315.70	3/4	1,984.21	3/4	1,652.72
5	5	5	4,161.51	5	3,897.62	5	3,609.53	5	3,299.95	5	2,971.78	5	2,640.29	5	2,308.80	5	1,977.30	5	1,645.81
1/4	1/4	1/4	4,155.04	1/4	3,891.83	1/4	3,603.27	1/4	3,293.27	1/4	2,964.88	1/4	2,633.38	1/4	2,301.89	1/4	1,970.40	1/4	1,638.90
1/2	1/2	1/2	4,148.58	1/2	3,886.04	1/2	3,597.00	1/2	3,286.58	1/2	2,957.97	1/2	2,626.48	1/2	2,294.98	1/2	1,963.49	1/2	1,632.00
3/4	3/4	3/4	4,142.11	3/4	3,880.25	3/4	3,590.73	3/4	3,279.90	3/4	2,951.06	3/4	2,619.57	3/4	2,288.08	3/4	1,956.59	3/4	1,625.09
6	6	6	4,135.65	6	3,874.46	6	3,584.47	6	3,273.21	6	2,944.16	6	2,612.66	6	2,281.17	6	1,949.68	6	1,618.19
1/4	1/4	1/4	4,130.63	1/4	3,868.63	1/4	3,578.17	1/4	3,266.50	1/4	2,937.25	1/4	2,605.76	1/4	2,274.27	1/4	1,942.77	1/4	1,611.28
1/2	1/2	1/2	4,125.62	1/2	3,862.80	1/2	3,571.88	1/2	3,259.78	1/2	2,930.35	1/2	2,598.85	1/2	2,267.36	1/2	1,935.87	1/2	1,604.37
3/4	3/4	3/4	4,120.60	3/4	3,856.97	3/4	3,565.58	3/4	3,253.07	3/4	2,923.44	3/4	2,591.95	3/4	2,260.45	3/4	1,928.96	3/4	1,597.47
7	7	7	4,115.59	7	3,851.14	7	3,559.29	7	3,246.35	7	2,916.53	7	2,585.04	7	2,253.55	7	1,922.05	7	1,590.56
1/4	1/4	1/4	4,110.54	1/4	3,845.27	1/4	3,552.96	1/4	3,239.59	1/4	2,909.63	1/4	2,578.13	1/4	2,246.64	1/4	1,915.15	1/4	1,583.66
1/2	1/2	1/2	4,105.50	1/2	3,839.41	1/2	3,546.64	1/2	3,232.84	1/2	2,902.72	1/2	2,571.23	1/2	2,239.74	1/2	1,908.24	1/2	1,576.75
3/4	3/4	3/4	4,100.45	3/4	3,833.55	3/4	3,540.31	3/4	3,226.08	3/4	2,895.81	3/4	2,564.32	3/4	2,232.83	3/4	1,901.34	3/4	1,569.84
8	8	8	4,095.41	8	3,827.69	8	3,533.98	8	3,219.32	8	2,888.91	8	2,557.42	8	2,225.92	8	1,894.43	8	1,562.94
1/4	1/4	1/4	4,090.32	1/4	3,821.78	1/4	3,527.62	1/4	3,212.53	1/4	2,882.00	1/4	2,550.51	1/4	2,219.02	1/4	1,887.52	1/4	1,556.03
1/2	1/2	1/2	4,085.23	1/2	3,815.88	1/2	3,521.25	1/2	3,205.75	1/2	2,875.10	1/2	2,543.60	1/2	2,212.11	1/2	1,880.62	1/2	1,549.13
3/4	3/4	3/4	4,080.14	3/4	3,809.98	3/4	3,514.88	3/4	3,198.96	3/4	2,868.19	3/4	2,536.70	3/4	2,205.20	3/4	1,873.71	3/4	1,542.22
9	9	9	4,075.05	9	3,804.08	9	3,508.52	9	3,192.17	9	2,861.28	9	2,529.79	9	2,198.30	9	1,866.81	9	1,535.31
1/4	1/4	1/4	4,069.94	1/4	3,798.14	1/4	3,502.13	1/4	3,185.35	1/4	2,854.38	1/4	2,522.89	1/4	2,191.39	1/4	1,859.90	1/4	1,528.41
1/2	1/2	1/2	4,064.82	1/2	3,792.21	1/2	3,495.74	1/2	3,178.53	1/2	2,847.47	1/2	2,515.98	1/2	2,184.49	1/2	1,852.99	1/2	1,521.50
3/4	3/4	3/4	4,059.70	3/4	3,786.27	3/4	3,489.35	3/4	3,171.72	3/4	2,840.57	3/4	2,509.07	3/4	2,177.58	3/4	1,846.09	3/4	1,514.59
10	10	10	4,054.58	10	3,780.34	10	3,482.96	10	3,164.90	10	2,833.66	10	2,502.17	10	2,170.67	10	1,839.18	10	1,507.69
1/4	1/4	1/4	4,049.44	1/4	3,774.35	1/4	3,476.53	1/4	3,158.04	1/4	2,826.75	1/4	2,495.26	1/4	2,163.77	1/4	1,832.28	1/4	1,500.78
1/2	1/2	1/2	4,044.29	1/2	3,768.37	1/2	3,470.10	1/2	3,151.18	1/2	2,819.85	1/2	2,488.36	1/2	2,156.86	1/2	1,825.37	1/2	1,493.88
3/4	3/4	3/4	4,039.14	3/4	3,762.38	3/4	3,463.68	3/4	3,144.32	3/4	2,812.94	3/4	2,481.45	3/4	2,149.96	3/4	1,818.46	3/4	1,486.97
11	11	11	4,033.99	11	3,756.40	11	3,457.25	11	3,137.46	11	2,806.04	11	2,474.54	11	2,143.05	11	1,811.56	11	1,480.06
1/4	1/4	1/4	4,028.40	1/4	3,750.38	1/4	3,450.79	1/4	3,130.57	1/4	2,799.13	1/4	2,467.64	1/4	2,136.14	1/4	1,804.65	1/4	1,473.16
1/2	1/2	1/2	4,022.80	1/2	3,744.37	1/2	3,444.33	1/2	3,123.68	1/2	2,792.22	1/2	2,460.73	1/2	2,129.24	1/2	1,797.74	1/2	1,466.25
3/4	3/4	3/4	4,017.21	3/4	3,738.35	3/4	3,437.87	3/4	3,116.79	3/4	2,785.32	3/4	2,453.82	3/4	2,122.33	3/4	1,790.84	3/4	1,459.35

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'-03" OFF CENTERLINE AND 44'-06" 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 "CTCo 354"

## 1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 14'-10"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,452.44	0	1,120.95	0	795.96	0	494.13	0	215.63	0		0		0		0		0	
1/4	1,445.53	1/4	1,114.04	1/4	789.43	1/4	488.13	1/4	210.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,438.63	1/2	1,107.14	1/2	782.91	1/2	482.13	1/2	204.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,431.72	3/4	1,100.23	3/4	776.38	3/4	476.12	3/4	198.95	3/4		3/4		3/4		3/4		3/4	
1	1,424.82	1	1,093.32	1	769.86	1	470.12	1	193.39	1		1		1		1		1	
1/4	1,417.91	1/4	1,086.42	1/4	763.37	1/4	464.16	1/4	187.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,411.00	1/2	1,079.51	1/2	756.89	1/2	458.20	1/2	182.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,404.10	3/4	1,072.60	3/4	750.40	3/4	452.23	3/4	176.82	3/4		3/4		3/4		3/4		3/4	
2	1,397.19	2	1,065.70	2	743.92	2	446.27	2	171.30	2		2		2		2		2	
1/4	1,390.29	1/4	1,058.79	1/4	737.47	1/4	440.35	1/4	165.82	1/4		1/4		1/4		1/4		1/4	
1/2	1,383.38	1/2	1,051.89	1/2	731.03	1/2	434.43	1/2	160.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,376.47	3/4	1,044.98	3/4	724.59	3/4	428.50	3/4	154.86	3/4		3/4		3/4		3/4		3/4	
3	1,369.57	3	1,038.07	3	718.14	3	422.58	3	149.38	3		3		3		3		3	
1/4	1,362.66	1/4	1,031.19	1/4	711.74	1/4	416.70	1/4	143.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,355.75	1/2	1,024.30	1/2	705.33	1/2	410.81	1/2	138.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,348.85	3/4	1,017.42	3/4	698.93	3/4	404.93	3/4	133.06	3/4		3/4		3/4		3/4		3/4	
4	1,341.94	4	1,010.53	4	692.52	4	399.05	4	127.61	4		4		4		4		4	
1/4	1,335.04	1/4	1,003.68	1/4	686.16	1/4	393.20	1/4	122.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,328.13	1/2	996.84	1/2	679.80	1/2	387.35	1/2	116.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,321.22	3/4	989.99	3/4	673.43	3/4	381.50	3/4	111.41	3/4		3/4		3/4		3/4		3/4	
5	1,314.32	5	983.15	5	667.07	5	375.65	5	106.01	5		5		5		5		5	
1/4	1,307.41	1/4	976.34	1/4	660.74	1/4	369.83	1/4	100.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,300.51	1/2	969.53	1/2	654.42	1/2	364.01	1/2	95.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,293.60	3/4	962.73	3/4	648.09	3/4	358.19	3/4	89.93	3/4		3/4		3/4		3/4		3/4	
6	1,286.69	6	955.92	6	641.77	6	352.38	6	84.57	6		6		6		6		6	
1/4	1,279.79	1/4	949.16	1/4	635.49	1/4	346.60	1/4	79.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,272.88	1/2	942.39	1/2	629.20	1/2	340.82	1/2	73.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,265.98	3/4	935.63	3/4	622.92	3/4	335.04	3/4	68.61	3/4		3/4		3/4		3/4		3/4	
7	1,259.07	7	928.86	7	616.63	7	329.26	7	63.29	7		7		7		7		7	
1/4	1,252.16	1/4	922.14	1/4	610.42	1/4	323.50	1/4	58.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,245.26	1/2	915.41	1/2	604.21	1/2	317.74	1/2	52.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,238.35	3/4	908.68	3/4	598.00	3/4	311.98	3/4	47.45	3/4		3/4		3/4		3/4		3/4	
8	1,231.44	8	901.96	8	591.79	8	306.22	8	42.17	8		8		8		8		8	
1/4	1,224.54	1/4	895.27	1/4	585.63	1/4	300.49	1/4	37.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,217.63	1/2	888.59	1/2	579.46	1/2	294.77	1/2	33.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,210.73	3/4	881.90	3/4	573.30	3/4	289.05	3/4	29.03	3/4		3/4		3/4		3/4		3/4	
9	1,203.82	9	875.22	9	567.13	9	283.33	9	24.66	9		9		9		9		9	
1/4	1,196.91	1/4	868.57	1/4	561.01	1/4	277.65	1/4	22.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,190.01	1/2	861.93	1/2	554.89	1/2	271.96	1/2	19.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,183.10	3/4	855.28	3/4	548.76	3/4	266.28	3/4	16.83	3/4		3/4		3/4		3/4		3/4	
10	1,176.20	10	848.64	10	542.64	10	260.60	10	14.21	10		10		10		10		10	
1/4	1,169.29	1/4	842.03	1/4	536.56	1/4	254.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,162.38	1/2	835.43	1/2	530.47	1/2	249.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,155.48	3/4	828.82	3/4	524.39	3/4	243.68	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,148.57	11	822.22	11	518.30	11	238.04	11		11		11		11		11		11	
1/4	1,141.67	1/4	815.65	1/4	512.26	1/4	232.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,134.76	1/2	809.09	1/2	506.22	1/2	226.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,127.85	3/4	802.52	3/4	500.17	3/4	221.23	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2014 SW  
CALCULATED: 03/15/2014 CL  
PRINTED: 03/15/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2014

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



# BARGE "CTCo 354"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

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	4,285.61	0	4,006.91	0	3,727.26	0	3,425.90	0	3,104.00	0	2,772.51	0	2,441.02	0	2,109.52	0	1,778.03
1/4	1/4	1/4	4,279.11	1/4	4,001.28	1/4	3,721.21	1/4	3,419.40	1/4	3,097.10	1/4	2,765.60	1/4	2,434.11	1/4	2,102.62	1/4	1,771.12
1/2	1/2	1/2	4,272.61	1/2	3,995.66	1/2	3,715.17	1/2	3,412.89	1/2	3,090.19	1/2	2,758.70	1/2	2,427.20	1/2	2,095.71	1/2	1,764.22
3/4	3/4	3/4	4,266.11	3/4	3,990.03	3/4	3,709.12	3/4	3,406.39	3/4	3,083.28	3/4	2,751.79	3/4	2,420.30	3/4	2,088.81	3/4	1,757.31
1	1	1	4,259.61	1	3,984.37	1	3,703.04	1	3,399.86	1	3,076.38	1	2,744.89	1	2,413.39	1	2,081.90	1	1,750.41
1/4	1/4	1/4	4,253.11	1/4	3,978.70	1/4	3,696.95	1/4	3,393.33	1/4	3,069.47	1/4	2,737.98	1/4	2,406.49	1/4	2,074.99	1/4	1,743.50
1/2	1/2	1/2	4,246.61	1/2	3,973.04	1/2	3,690.87	1/2	3,386.80	1/2	3,062.57	1/2	2,731.07	1/2	2,399.58	1/2	2,068.09	1/2	1,736.59
3/4	3/4	3/4	4,240.11	3/4	3,967.37	3/4	3,684.78	3/4	3,380.27	3/4	3,055.66	3/4	2,724.17	3/4	2,392.67	3/4	2,061.18	3/4	1,729.69
2	2	2	4,233.61	2	3,961.68	2	3,678.63	2	3,373.69	2	3,048.75	2	2,717.26	2	2,385.77	2	2,054.28	2	1,722.78
1/4	1/4	1/4	4,227.11	1/4	3,955.98	1/4	3,672.48	1/4	3,367.12	1/4	3,041.85	1/4	2,710.35	1/4	2,378.86	1/4	2,047.37	1/4	1,715.88
1/2	1/2	1/2	4,220.61	1/2	3,950.28	1/2	3,666.33	1/2	3,360.55	1/2	3,034.94	1/2	2,703.45	1/2	2,371.96	1/2	2,040.46	1/2	1,708.97
3/4	3/4	3/4	4,214.11	3/4	3,944.59	3/4	3,660.17	3/4	3,353.98	3/4	3,028.04	3/4	2,696.54	3/4	2,365.05	3/4	2,033.56	3/4	1,702.06
3	3	3	4,207.65	3	3,938.85	3	3,653.98	3	3,347.37	3	3,021.13	3	2,689.64	3	2,358.14	3	2,026.65	3	1,695.16
1/4	1/4	1/4	4,201.18	1/4	3,933.11	1/4	3,647.79	1/4	3,340.75	1/4	3,014.22	1/4	2,682.73	1/4	2,351.24	1/4	2,019.74	1/4	1,688.25
1/2	1/2	1/2	4,194.71	1/2	3,927.37	1/2	3,641.60	1/2	3,334.14	1/2	3,007.32	1/2	2,675.82	1/2	2,344.33	1/2	2,012.84	1/2	1,681.35
3/4	3/4	3/4	4,188.25	3/4	3,921.63	3/4	3,635.41	3/4	3,327.53	3/4	3,000.41	3/4	2,668.92	3/4	2,337.43	3/4	2,005.93	3/4	1,674.44
4	4	4	4,181.78	4	3,915.86	4	3,629.18	4	3,320.89	4	2,993.50	4	2,662.01	4	2,330.52	4	1,999.03	4	1,667.53
1/4	1/4	1/4	4,175.32	1/4	3,910.10	1/4	3,622.96	1/4	3,314.24	1/4	2,986.60	1/4	2,655.11	1/4	2,323.61	1/4	1,992.12	1/4	1,660.63
1/2	1/2	1/2	4,168.85	1/2	3,904.33	1/2	3,616.74	1/2	3,307.60	1/2	2,979.69	1/2	2,648.20	1/2	2,316.71	1/2	1,985.21	1/2	1,653.72
3/4	3/4	3/4	4,162.39	3/4	3,898.56	3/4	3,610.51	3/4	3,300.95	3/4	2,972.79	3/4	2,641.29	3/4	2,309.80	3/4	1,978.31	3/4	1,646.82
5	5	5	4,155.92	5	3,892.77	5	3,604.25	5	3,294.27	5	2,965.88	5	2,634.39	5	2,302.89	5	1,971.40	5	1,639.91
1/4	1/4	1/4	4,149.46	1/4	3,886.98	1/4	3,597.98	1/4	3,287.59	1/4	2,958.97	1/4	2,627.48	1/4	2,295.99	1/4	1,964.50	1/4	1,633.00
1/2	1/2	1/2	4,142.99	1/2	3,881.19	1/2	3,591.72	1/2	3,280.90	1/2	2,952.07	1/2	2,620.58	1/2	2,289.08	1/2	1,957.59	1/2	1,626.10
3/4	3/4	3/4	4,136.53	3/4	3,875.40	3/4	3,585.45	3/4	3,274.22	3/4	2,945.16	3/4	2,613.67	3/4	2,282.18	3/4	1,950.68	3/4	1,619.19
6	6	6	4,131.51	6	3,869.57	6	3,579.16	6	3,267.50	6	2,938.26	6	2,606.76	6	2,275.27	6	1,943.78	6	1,612.28
1/4	1/4	1/4	4,126.50	1/4	3,863.74	1/4	3,572.86	1/4	3,260.79	1/4	2,931.35	1/4	2,599.86	1/4	2,268.36	1/4	1,936.87	1/4	1,605.38
1/2	1/2	1/2	4,121.49	1/2	3,857.91	1/2	3,566.57	1/2	3,254.07	1/2	2,924.44	1/2	2,592.95	1/2	2,261.46	1/2	1,929.97	1/2	1,598.47
3/4	3/4	3/4	4,116.47	3/4	3,852.08	3/4	3,560.27	3/4	3,247.36	3/4	2,917.54	3/4	2,586.04	3/4	2,254.55	3/4	1,923.06	3/4	1,591.57
7	7	7	4,111.43	7	3,846.22	7	3,553.95	7	3,240.60	7	2,910.63	7	2,579.14	7	2,247.65	7	1,916.15	7	1,584.66
1/4	1/4	1/4	4,106.39	1/4	3,840.36	1/4	3,547.62	1/4	3,233.84	1/4	2,903.73	1/4	2,572.23	1/4	2,240.74	1/4	1,909.25	1/4	1,577.75
1/2	1/2	1/2	4,101.34	1/2	3,834.50	1/2	3,541.30	1/2	3,227.08	1/2	2,896.82	1/2	2,565.33	1/2	2,233.83	1/2	1,902.34	1/2	1,570.85
3/4	3/4	3/4	4,096.30	3/4	3,828.64	3/4	3,534.97	3/4	3,220.32	3/4	2,889.91	3/4	2,558.42	3/4	2,226.93	3/4	1,895.43	3/4	1,563.94
8	8	8	4,091.21	8	3,822.74	8	3,528.60	8	3,213.54	8	2,883.01	8	2,551.51	8	2,220.02	8	1,888.53	8	1,557.04
1/4	1/4	1/4	4,086.13	1/4	3,816.84	1/4	3,522.24	1/4	3,206.75	1/4	2,876.10	1/4	2,544.61	1/4	2,213.12	1/4	1,881.62	1/4	1,550.13
1/2	1/2	1/2	4,081.04	1/2	3,810.93	1/2	3,515.87	1/2	3,199.96	1/2	2,869.19	1/2	2,537.70	1/2	2,206.21	1/2	1,874.72	1/2	1,543.22
3/4	3/4	3/4	4,075.95	3/4	3,805.03	3/4	3,509.51	3/4	3,193.18	3/4	2,862.29	3/4	2,530.80	3/4	2,199.30	3/4	1,867.81	3/4	1,536.32
9	9	9	4,070.84	9	3,799.10	9	3,503.12	9	3,186.36	9	2,855.38	9	2,523.89	9	2,192.40	9	1,860.90	9	1,529.41
1/4	1/4	1/4	4,065.72	1/4	3,793.17	1/4	3,496.73	1/4	3,179.54	1/4	2,848.48	1/4	2,516.98	1/4	2,185.49	1/4	1,854.00	1/4	1,522.51
1/2	1/2	1/2	4,060.61	1/2	3,787.23	1/2	3,490.34	1/2	3,172.72	1/2	2,841.57	1/2	2,510.08	1/2	2,178.58	1/2	1,847.09	1/2	1,515.60
3/4	3/4	3/4	4,055.49	3/4	3,781.30	3/4	3,483.95	3/4	3,165.90	3/4	2,834.66	3/4	2,503.17	3/4	2,171.68	3/4	1,840.19	3/4	1,508.69
10	10	10	4,050.34	10	3,775.32	10	3,477.53	10	3,159.04	10	2,827.76	10	2,496.27	10	2,164.77	10	1,833.28	10	1,501.79
1/4	1/4	1/4	4,045.20	1/4	3,769.33	1/4	3,471.10	1/4	3,152.18	1/4	2,820.85	1/4	2,489.36	1/4	2,157.87	1/4	1,826.37	1/4	1,494.88
1/2	1/2	1/2	4,040.05	1/2	3,763.34	1/2	3,464.67	1/2	3,145.33	1/2	2,813.95	1/2	2,482.45	1/2	2,150.96	1/2	1,819.47	1/2	1,487.97
3/4	3/4	3/4	4,034.90	3/4	3,757.36	3/4	3,458.24	3/4	3,138.47	3/4	2,807.04	3/4	2,475.55	3/4	2,144.05	3/4	1,812.56	3/4	1,481.07
11	11	11	4,029.31	11	3,751.35	11	3,451.78	11	3,131.58	11	2,800.13	11	2,468.64	11	2,137.15	11	1,805.66	11	1,474.16
1/4	1/4	1/4	4,023.72	1/4	3,745.33	1/4	3,445.32	1/4	3,124.69	1/4	2,793.23	1/4	2,461.73	1/4	2,130.24	1/4	1,798.75	1/4	1,467.26
1/2	1/2	1/2	4,018.13	1/2	3,739.32	1/2	3,438.86	1/2	3,117.80	1/2	2,786.32	1/2	2,454.83	1/2	2,123.34	1/2	1,791.84	1/2	1,460.35
3/4	3/4	3/4	4,292.11	3/4	4,012.53	3/4	3,733.30	3/4	3,432.40	3/4	3,110.91	3/4	2,779.42	3/4	2,447.92	3/4	2,116.43	3/4	1,784.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCo 354"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,446.54	0	1,115.05	0	790.44	0	488.66	0	210.01	0		0		0		0		0	
1/4	1,439.63	1/4	1,108.14	1/4	783.92	1/4	482.64	1/4	204.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,432.73	1/2	1,101.23	1/2	777.39	1/2	476.61	1/2	198.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,425.82	3/4	1,094.33	3/4	770.87	3/4	470.59	3/4	193.33	3/4		3/4		3/4		3/4		3/4	
1	1,418.91	1	1,087.42	1	764.39	1	464.60	1	187.81	1		1		1		1		1	
1/4	1,412.01	1/4	1,080.51	1/4	757.90	1/4	458.62	1/4	182.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,405.10	1/2	1,073.61	1/2	751.42	1/2	452.63	1/2	176.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,398.20	3/4	1,066.70	3/4	744.93	3/4	446.65	3/4	171.25	3/4		3/4		3/4		3/4		3/4	
2	1,391.29	2	1,059.80	2	738.49	2	440.70	2	165.77	2		2		2		2		2	
1/4	1,384.38	1/4	1,052.89	1/4	732.04	1/4	434.75	1/4	160.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,377.48	1/2	1,045.98	1/2	725.60	1/2	428.81	1/2	154.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,370.57	3/4	1,039.08	3/4	719.16	3/4	422.86	3/4	149.33	3/4		3/4		3/4		3/4		3/4	
3	1,363.67	3	1,032.19	3	712.75	3	416.96	3	143.89	3		3		3		3		3	
1/4	1,356.76	1/4	1,025.31	1/4	706.35	1/4	411.05	1/4	138.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,349.85	1/2	1,018.42	1/2	699.94	1/2	405.14	1/2	133.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,342.95	3/4	1,011.53	3/4	693.54	3/4	399.24	3/4	127.58	3/4		3/4		3/4		3/4		3/4	
4	1,336.04	4	1,004.69	4	687.18	4	393.37	4	122.18	4		4		4		4		4	
1/4	1,329.13	1/4	997.84	1/4	680.81	1/4	387.49	1/4	116.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,322.23	1/2	991.00	1/2	674.45	1/2	381.62	1/2	111.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,315.32	3/4	984.15	3/4	668.09	3/4	375.75	3/4	105.98	3/4		3/4		3/4		3/4		3/4	
5	1,308.42	5	977.35	5	661.76	5	369.91	5	100.62	5		5		5		5		5	
1/4	1,301.51	1/4	970.54	1/4	655.44	1/4	364.07	1/4	95.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,294.60	1/2	963.73	1/2	649.12	1/2	358.23	1/2	89.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,287.70	3/4	956.93	3/4	642.79	3/4	352.38	3/4	84.54	3/4		3/4		3/4		3/4		3/4	
6	1,280.79	6	950.16	6	636.51	6	346.58	6	79.22	6		6		6		6		6	
1/4	1,273.89	1/4	943.40	1/4	630.23	1/4	340.78	1/4	73.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,266.98	1/2	936.63	1/2	623.94	1/2	334.98	1/2	68.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,260.07	3/4	929.87	3/4	617.66	3/4	329.18	3/4	63.27	3/4		3/4		3/4		3/4		3/4	
7	1,253.17	7	923.14	7	611.42	7	323.42	7	57.99	7		7		7		7		7	
1/4	1,246.26	1/4	916.42	1/4	605.19	1/4	317.66	1/4	52.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,239.36	1/2	909.69	1/2	598.96	1/2	311.90	1/2	47.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,232.45	3/4	902.97	3/4	592.72	3/4	306.14	3/4	42.15	3/4		3/4		3/4		3/4		3/4	
8	1,225.54	8	896.28	8	586.53	8	300.42	8	37.78	8		8		8		8		8	
1/4	1,218.64	1/4	889.60	1/4	580.35	1/4	294.70	1/4	33.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,211.73	1/2	882.91	1/2	574.16	1/2	288.98	1/2	29.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,204.82	3/4	876.22	3/4	567.97	3/4	283.25	3/4	24.65	3/4		3/4		3/4		3/4		3/4	
9	1,197.92	9	869.58	9	561.83	9	277.57	9	22.04	9		9		9		9		9	
1/4	1,191.01	1/4	862.93	1/4	555.68	1/4	271.89	1/4	19.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,184.11	1/2	856.29	1/2	549.53	1/2	266.21	1/2	16.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,177.20	3/4	849.65	3/4	543.38	3/4	260.53	3/4	14.21	3/4		3/4		3/4		3/4		3/4	
10	1,170.29	10	843.04	10	537.28	10	254.89	10		10		10		10		10		10	
1/4	1,163.39	1/4	836.44	1/4	531.17	1/4	249.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,156.48	1/2	829.83	1/2	525.06	1/2	243.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,149.58	3/4	823.23	3/4	518.96	3/4	237.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,142.67	11	816.66	11	512.89	11	232.37	11		11		11		11		11		11	
1/4	1,135.76	1/4	810.10	1/4	506.82	1/4	226.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,128.86	1/2	803.53	1/2	500.76	1/2	221.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,121.95	3/4	796.97	3/4	494.69	3/4	215.57	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2014 SW  
CALCULATED: 03/15/2014 CL  
PRINTED: 03/15/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2014

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



# BARGE "CTCo 354"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	5,181.16	0	4,854.01	0	4,527.26	0	4,175.17	0	3,799.00	0	3,411.15	0	3,023.29	0	2,635.44	0	2,247.58
1/4		1/4	5,173.55	1/4	4,847.42	1/4	4,520.19	1/4	4,167.56	1/4	3,790.92	1/4	3,403.07	1/4	3,015.21	1/4	2,627.36	1/4	2,239.50
1/2		1/2	5,165.95	1/2	4,840.84	1/2	4,513.11	1/2	4,159.95	1/2	3,782.84	1/2	3,394.99	1/2	3,007.13	1/2	2,619.28	1/2	2,231.42
3/4		3/4	5,158.34	3/4	4,834.26	3/4	4,506.04	3/4	4,152.34	3/4	3,774.76	3/4	3,386.91	3/4	2,999.05	3/4	2,611.20	3/4	2,223.34
1		1	5,150.74	1	4,827.68	1	4,498.97	1	4,144.73	1	3,766.68	1	3,378.83	1	2,990.97	1	2,603.12	1	2,215.26
1/4		1/4	5,143.13	1/4	4,821.05	1/4	4,491.84	1/4	4,137.09	1/4	3,758.60	1/4	3,370.74	1/4	2,982.89	1/4	2,595.04	1/4	2,207.18
1/2		1/2	5,135.53	1/2	4,814.42	1/2	4,484.72	1/2	4,129.45	1/2	3,750.52	1/2	3,362.66	1/2	2,974.81	1/2	2,586.96	1/2	2,199.10
3/4		3/4	5,127.92	3/4	4,807.79	3/4	4,477.60	3/4	4,121.81	3/4	3,742.44	3/4	3,354.58	3/4	2,966.73	3/4	2,578.88	3/4	2,191.02
2		2	5,120.32	2	4,801.16	2	4,470.48	2	4,114.17	2	3,734.36	2	3,346.50	2	2,958.65	2	2,570.80	2	2,182.94
1/4		1/4	5,112.71	1/4	4,794.49	1/4	4,463.29	1/4	4,106.47	1/4	3,726.28	1/4	3,338.42	1/4	2,950.57	1/4	2,562.71	1/4	2,174.86
1/2		1/2	5,105.11	1/2	4,787.83	1/2	4,456.09	1/2	4,098.78	1/2	3,718.20	1/2	3,330.34	1/2	2,942.49	1/2	2,554.63	1/2	2,166.78
3/4		3/4	5,097.50	3/4	4,781.16	3/4	4,448.89	3/4	4,091.09	3/4	3,710.12	3/4	3,322.26	3/4	2,934.41	3/4	2,546.55	3/4	2,158.70
3		3	5,089.89	3	4,774.50	3	4,441.69	3	4,083.40	3	3,702.04	3	3,314.18	3	2,926.33	3	2,538.47	3	2,150.62
1/4		1/4	5,082.33	1/4	4,767.78	1/4	4,434.45	1/4	4,075.67	1/4	3,693.96	1/4	3,306.10	1/4	2,918.25	1/4	2,530.39	1/4	2,142.54
1/2		1/2	5,074.76	1/2	4,761.07	1/2	4,427.20	1/2	4,067.93	1/2	3,685.88	1/2	3,298.02	1/2	2,910.17	1/2	2,522.31	1/2	2,134.46
3/4		3/4	5,067.20	3/4	4,754.35	3/4	4,419.95	3/4	4,060.19	3/4	3,677.80	3/4	3,289.94	3/4	2,902.09	3/4	2,514.23	3/4	2,126.38
4		4	5,059.63	4	4,747.63	4	4,412.71	4	4,052.46	4	3,669.72	4	3,281.86	4	2,894.01	4	2,506.15	4	2,118.30
1/4		1/4	5,052.07	1/4	4,740.89	1/4	4,405.43	1/4	4,044.68	1/4	3,661.64	1/4	3,273.78	1/4	2,885.93	1/4	2,498.07	1/4	2,110.22
1/2		1/2	5,044.51	1/2	4,734.14	1/2	4,398.15	1/2	4,036.91	1/2	3,653.56	1/2	3,265.70	1/2	2,877.85	1/2	2,489.99	1/2	2,102.14
3/4		3/4	5,036.94	3/4	4,727.39	3/4	4,390.86	3/4	4,029.14	3/4	3,645.48	3/4	3,257.62	3/4	2,869.77	3/4	2,481.91	3/4	2,094.06
5		5	5,029.38	5	4,720.64	5	4,383.58	5	4,021.36	5	3,637.39	5	3,249.54	5	2,861.69	5	2,473.83	5	2,085.98
1/4		1/4	5,021.81	1/4	4,713.86	1/4	4,376.25	1/4	4,013.54	1/4	3,629.31	1/4	3,241.46	1/4	2,853.61	1/4	2,465.75	1/4	2,077.90
1/2		1/2	5,014.25	1/2	4,707.09	1/2	4,368.92	1/2	4,005.72	1/2	3,621.23	1/2	3,233.38	1/2	2,845.53	1/2	2,457.67	1/2	2,069.82
3/4		3/4	5,006.68	3/4	4,700.31	3/4	4,361.59	3/4	3,997.90	3/4	3,613.15	3/4	3,225.30	3/4	2,837.45	3/4	2,449.59	3/4	2,061.74
6		6	4,999.12	6	4,693.54	6	4,354.25	6	3,990.08	6	3,605.07	6	3,217.22	6	2,829.36	6	2,441.51	6	2,053.66
1/4		1/4	4,993.25	1/4	4,686.72	1/4	4,346.89	1/4	3,982.22	1/4	3,596.99	1/4	3,209.14	1/4	2,821.28	1/4	2,433.43	1/4	2,045.58
1/2		1/2	4,987.38	1/2	4,679.89	1/2	4,339.52	1/2	3,974.36	1/2	3,588.91	1/2	3,201.06	1/2	2,813.20	1/2	2,425.35	1/2	2,037.50
3/4		3/4	4,981.52	3/4	4,673.07	3/4	4,332.16	3/4	3,966.51	3/4	3,580.83	3/4	3,192.98	3/4	2,805.12	3/4	2,417.27	3/4	2,029.42
7		7	4,975.65	7	4,666.25	7	4,324.79	7	3,958.65	7	3,572.75	7	3,184.90	7	2,797.04	7	2,409.19	7	2,021.33
1/4		1/4	4,969.75	1/4	4,659.39	1/4	4,317.39	1/4	3,950.74	1/4	3,564.67	1/4	3,176.82	1/4	2,788.96	1/4	2,401.11	1/4	2,013.25
1/2		1/2	4,963.84	1/2	4,652.53	1/2	4,309.99	1/2	3,942.83	1/2	3,556.59	1/2	3,168.74	1/2	2,780.88	1/2	2,393.03	1/2	2,005.17
3/4		3/4	4,957.94	3/4	4,645.68	3/4	4,302.59	3/4	3,934.93	3/4	3,548.51	3/4	3,160.66	3/4	2,772.80	3/4	2,384.95	3/4	1,997.09
8		8	4,952.04	8	4,638.82	8	4,295.18	8	3,927.02	8	3,540.43	8	3,152.58	8	2,764.72	8	2,376.87	8	1,989.01
1/4		1/4	4,946.08	1/4	4,631.91	1/4	4,287.73	1/4	3,919.08	1/4	3,532.35	1/4	3,144.50	1/4	2,756.64	1/4	2,368.79	1/4	1,980.93
1/2		1/2	4,940.13	1/2	4,625.00	1/2	4,280.29	1/2	3,911.14	1/2	3,524.27	1/2	3,136.42	1/2	2,748.56	1/2	2,360.71	1/2	1,972.85
3/4		3/4	4,934.18	3/4	4,618.10	3/4	4,272.84	3/4	3,903.20	3/4	3,516.19	3/4	3,128.34	3/4	2,740.48	3/4	2,352.63	3/4	1,964.77
9		9	4,928.22	9	4,611.19	9	4,265.39	9	3,895.26	9	3,508.11	9	3,120.26	9	2,732.40	9	2,344.55	9	1,956.69
1/4		1/4	4,922.24	1/4	4,604.25	1/4	4,257.91	1/4	3,887.28	1/4	3,500.03	1/4	3,112.18	1/4	2,724.32	1/4	2,336.47	1/4	1,948.61
1/2		1/2	4,916.25	1/2	4,597.31	1/2	4,250.44	1/2	3,879.30	1/2	3,491.95	1/2	3,104.10	1/2	2,716.24	1/2	2,328.39	1/2	1,940.53
3/4		3/4	4,910.27	3/4	4,590.37	3/4	4,242.96	3/4	3,871.32	3/4	3,483.87	3/4	3,096.01	3/4	2,708.16	3/4	2,320.31	3/4	1,932.45
10		10	4,904.28	10	4,583.42	10	4,235.49	10	3,863.34	10	3,475.79	10	3,087.93	10	2,700.08	10	2,312.23	10	1,924.37
1/4		1/4	4,898.26	1/4	4,576.42	1/4	4,227.97	1/4	3,855.32	1/4	3,467.71	1/4	3,079.85	1/4	2,692.00	1/4	2,304.15	1/4	1,916.29
1/2		1/2	4,892.23	1/2	4,569.42	1/2	4,220.44	1/2	3,847.29	1/2	3,459.63	1/2	3,071.77	1/2	2,683.92	1/2	2,296.06	1/2	1,908.21
3/4		3/4	4,886.21	3/4	4,562.41	3/4	4,212.92	3/4	3,839.27	3/4	3,451.55	3/4	3,063.69	3/4	2,675.84	3/4	2,287.98	3/4	1,900.13
11		11	4,880.18	11	4,555.41	11	4,205.40	11	3,831.25	11	3,443.47	11	3,055.61	11	2,667.76	11	2,279.90	11	1,892.05
1/4		1/4	4,873.64	1/4	4,548.37	1/4	4,197.84	1/4	3,823.19	1/4	3,435.39	1/4	3,047.53	1/4	2,659.68	1/4	2,271.82	1/4	1,883.97
1/2		1/2	4,867.10	1/2	4,541.34	1/2	4,190.28	1/2	3,815.12	1/2	3,427.31	1/2	3,039.45	1/2	2,651.60	1/2	2,263.74	1/2	1,875.89
3/4		3/4	4,860.55	3/4	4,534.30	3/4	4,182.73	3/4	3,807.06	3/4	3,419.23	3/4	3,031.37	3/4	2,643.52	3/4	2,255.66	3/4	1,867.81

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'-03" OFF CENTERLINE AND 51'-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 "CTCo 354"

## 2 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 14'-10"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,859.73	0	1,471.87	0	1,084.02	0	703.19	0	323.60	0		0		0		0		0	
1/4	1,851.65	1/4	1,463.79	1/4	1,075.94	1/4	695.43	1/4	315.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,843.57	1/2	1,455.71	1/2	1,067.86	1/2	687.68	1/2	307.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,835.49	3/4	1,447.63	3/4	1,059.78	3/4	679.92	3/4	299.36	3/4		3/4		3/4		3/4		3/4	
1	1,827.41	1	1,439.55	1	1,051.70	1	672.16	1	291.28	1		1		1		1		1	
1/4	1,819.33	1/4	1,431.47	1/4	1,043.62	1/4	664.40	1/4	283.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,811.25	1/2	1,423.39	1/2	1,035.54	1/2	656.65	1/2	275.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,803.17	3/4	1,415.31	3/4	1,027.46	3/4	648.89	3/4	267.04	3/4		3/4		3/4		3/4		3/4	
2	1,795.09	2	1,407.23	2	1,019.38	2	641.13	2	258.96	2		2		2		2		2	
1/4	1,787.01	1/4	1,399.15	1/4	1,011.30	1/4	633.37	1/4	250.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,778.93	1/2	1,391.07	1/2	1,003.22	1/2	625.62	1/2	242.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,770.85	3/4	1,382.99	3/4	995.14	3/4	617.86	3/4	234.72	3/4		3/4		3/4		3/4		3/4	
3	1,762.77	3	1,374.91	3	987.06	3	610.10	3	226.64	3		3		3		3		3	
1/4	1,754.68	1/4	1,366.83	1/4	978.98	1/4	602.34	1/4	218.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,746.60	1/2	1,358.75	1/2	970.90	1/2	594.58	1/2	210.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,738.52	3/4	1,350.67	3/4	962.82	3/4	586.83	3/4	202.40	3/4		3/4		3/4		3/4		3/4	
4	1,730.44	4	1,342.59	4	954.74	4	579.07	4	194.32	4		4		4		4		4	
1/4	1,722.36	1/4	1,334.51	1/4	946.65	1/4	571.30	1/4	186.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,714.28	1/2	1,326.43	1/2	938.57	1/2	563.54	1/2	178.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,706.20	3/4	1,318.35	3/4	930.49	3/4	555.77	3/4	170.08	3/4		3/4		3/4		3/4		3/4	
5	1,698.12	5	1,310.27	5	922.41	5	548.01	5	162.00	5		5		5		5		5	
1/4	1,690.04	1/4	1,302.19	1/4	914.33	1/4	540.23	1/4	153.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,681.96	1/2	1,294.11	1/2	906.25	1/2	532.46	1/2	145.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.88	3/4	1,286.03	3/4	898.17	3/4	524.69	3/4	137.76	3/4		3/4		3/4		3/4		3/4	
6	1,665.80	6	1,277.95	6	890.09	6	516.91	6	129.68	6		6		6		6		6	
1/4	1,657.72	1/4	1,269.87	1/4	882.17	1/4	508.98	1/4	121.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,649.64	1/2	1,261.79	1/2	874.24	1/2	501.06	1/2	113.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,641.56	3/4	1,253.71	3/4	866.31	3/4	493.13	3/4	105.44	3/4		3/4		3/4		3/4		3/4	
7	1,633.48	7	1,245.63	7	858.38	7	485.20	7	97.36	7		7		7		7		7	
1/4	1,625.40	1/4	1,237.55	1/4	850.62	1/4	477.12	1/4	89.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,617.32	1/2	1,229.47	1/2	842.85	1/2	469.04	1/2	81.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,609.24	3/4	1,221.39	3/4	835.09	3/4	460.96	3/4	73.12	3/4		3/4		3/4		3/4		3/4	
8	1,601.16	8	1,213.30	8	827.32	8	452.88	8	65.04	8		8		8		8		8	
1/4	1,593.08	1/4	1,205.22	1/4	819.57	1/4	444.80	1/4	57.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,585.00	1/2	1,197.14	1/2	811.81	1/2	436.72	1/2	50.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,576.92	3/4	1,189.06	3/4	804.05	3/4	428.64	3/4	43.83	3/4		3/4		3/4		3/4		3/4	
9	1,568.84	9	1,180.98	9	796.29	9	420.56	9	36.76	9		9		9		9		9	
1/4	1,560.76	1/4	1,172.90	1/4	788.53	1/4	412.48	1/4	31.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,552.68	1/2	1,164.82	1/2	780.77	1/2	404.40	1/2	26.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,544.60	3/4	1,156.74	3/4	773.02	3/4	396.32	3/4	21.61	3/4		3/4		3/4		3/4		3/4	
10	1,536.52	10	1,148.66	10	765.26	10	388.24	10	16.56	10		10		10		10		10	
1/4	1,528.44	1/4	1,140.58	1/4	757.50	1/4	380.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,520.36	1/2	1,132.50	1/2	749.74	1/2	372.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,512.28	3/4	1,124.42	3/4	741.98	3/4	364.00	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,504.20	11	1,116.34	11	734.22	11	355.92	11		11		11		11		11		11	
1/4	1,496.12	1/4	1,108.26	1/4	726.47	1/4	347.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,488.03	1/2	1,100.18	1/2	718.71	1/2	339.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,479.95	3/4	1,092.10	3/4	710.95	3/4	331.68	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2014 SW  
CALCULATED: 03/15/2014 CL  
PRINTED: 03/15/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "CTCo 354"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 3/4"

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	5,190.71	0	4,864.39	0	4,536.95	0	4,184.14	0	3,807.31	0	3,419.29	0	3,031.26	0	2,643.23	0	2,255.21		
1/4		1/4	5,183.10	1/4	4,857.80	1/4	4,529.88	1/4	4,176.53	1/4	3,799.23	1/4	3,411.20	1/4	3,023.18	1/4	2,635.15	1/4	2,247.12		
1/2		1/2	5,175.49	1/2	4,851.21	1/2	4,522.80	1/2	4,168.91	1/2	3,791.15	1/2	3,403.12	1/2	3,015.09	1/2	2,627.07	1/2	2,239.04		
3/4		3/4	5,167.88	3/4	4,844.63	3/4	4,515.72	3/4	4,161.30	3/4	3,783.06	3/4	3,395.04	3/4	3,007.01	3/4	2,618.98	3/4	2,230.95		
1		1	5,160.27	1	4,837.99	1	4,508.60	1	4,153.66	1	3,774.98	1	3,386.95	1	2,998.92	1	2,610.90	1	2,222.87		
1/4		1/4	5,152.66	1/4	4,831.36	1/4	4,501.47	1/4	4,146.01	1/4	3,766.90	1/4	3,378.87	1/4	2,990.84	1/4	2,602.81	1/4	2,214.79		
1/2		1/2	5,145.06	1/2	4,824.73	1/2	4,494.35	1/2	4,138.37	1/2	3,758.81	1/2	3,370.78	1/2	2,982.76	1/2	2,594.73	1/2	2,206.70		
3/4		3/4	5,137.45	3/4	4,818.09	3/4	4,487.22	3/4	4,130.72	3/4	3,750.73	3/4	3,362.70	3/4	2,974.67	3/4	2,586.65	3/4	2,198.62		
2		2	5,129.84	2	4,811.42	2	4,480.02	2	4,123.03	2	3,742.64	2	3,354.62	2	2,966.59	2	2,578.56	2	2,190.53		
1/4		1/4	5,122.23	1/4	4,804.75	1/4	4,472.82	1/4	4,115.33	1/4	3,734.56	1/4	3,346.53	1/4	2,958.50	1/4	2,570.48	1/4	2,182.45		
1/2		1/2	5,114.62	1/2	4,798.08	1/2	4,465.62	1/2	4,107.64	1/2	3,726.48	1/2	3,338.45	1/2	2,950.42	1/2	2,562.39	1/2	2,174.37		
3/4		3/4	5,107.01	3/4	4,791.41	3/4	4,458.42	3/4	4,099.94	3/4	3,718.39	3/4	3,330.36	3/4	2,942.34	3/4	2,554.31	3/4	2,166.28		
3		3	5,099.44	3	4,784.69	3	4,451.17	3	4,092.20	3	3,710.31	3	3,322.28	3	2,934.25	3	2,546.23	3	2,158.20		
1/4		1/4	5,091.87	1/4	4,777.97	1/4	4,443.92	1/4	4,084.46	1/4	3,702.22	1/4	3,314.20	1/4	2,926.17	1/4	2,538.14	1/4	2,150.11		
1/2		1/2	5,084.30	1/2	4,771.25	1/2	4,436.67	1/2	4,076.72	1/2	3,694.14	1/2	3,306.11	1/2	2,918.09	1/2	2,530.06	1/2	2,142.03		
3/4		3/4	5,076.73	3/4	4,764.53	3/4	4,429.42	3/4	4,068.98	3/4	3,686.06	3/4	3,298.03	3/4	2,910.00	3/4	2,521.97	3/4	2,133.95		
4		4	5,069.17	4	4,757.78	4	4,422.13	4	4,061.21	4	3,677.97	4	3,289.94	4	2,901.92	4	2,513.89	4	2,125.86		
1/4		1/4	5,061.60	1/4	4,751.03	1/4	4,414.85	1/4	4,053.43	1/4	3,669.89	1/4	3,281.86	1/4	2,893.83	1/4	2,505.81	1/4	2,117.78		
1/2		1/2	5,054.03	1/2	4,744.27	1/2	4,407.56	1/2	4,045.65	1/2	3,661.80	1/2	3,273.78	1/2	2,885.75	1/2	2,497.72	1/2	2,109.70		
3/4		3/4	5,046.46	3/4	4,737.52	3/4	4,400.27	3/4	4,037.87	3/4	3,653.72	3/4	3,265.69	3/4	2,877.67	3/4	2,489.64	3/4	2,101.61		
5		5	5,038.89	5	4,730.74	5	4,392.94	5	4,030.05	5	3,645.64	5	3,257.61	5	2,869.58	5	2,481.55	5	2,093.53		
1/4		1/4	5,031.32	1/4	4,723.96	1/4	4,385.60	1/4	4,022.22	1/4	3,637.55	1/4	3,249.53	1/4	2,861.50	1/4	2,473.47	1/4	2,085.44		
1/2		1/2	5,023.75	1/2	4,717.18	1/2	4,378.27	1/2	4,014.40	1/2	3,629.47	1/2	3,241.44	1/2	2,853.41	1/2	2,465.39	1/2	2,077.36		
3/4		3/4	5,016.19	3/4	4,710.40	3/4	4,370.93	3/4	4,006.57	3/4	3,621.38	3/4	3,233.36	3/4	2,845.33	3/4	2,457.30	3/4	2,069.28		
6		6	5,010.31	6	4,703.58	6	4,363.56	6	3,998.71	6	3,613.30	6	3,225.27	6	2,837.25	6	2,449.22	6	2,061.19		
1/4		1/4	5,004.44	1/4	4,696.75	1/4	4,356.19	1/4	3,990.85	1/4	3,605.22	1/4	3,217.19	1/4	2,829.16	1/4	2,441.14	1/4	2,053.11		
1/2		1/2	4,998.57	1/2	4,689.93	1/2	4,348.82	1/2	3,982.99	1/2	3,597.13	1/2	3,209.11	1/2	2,821.08	1/2	2,433.05	1/2	2,045.02		
3/4		3/4	4,992.70	3/4	4,683.10	3/4	4,341.45	3/4	3,975.13	3/4	3,589.05	3/4	3,201.02	3/4	2,812.99	3/4	2,424.97	3/4	2,036.94		
7		7	4,986.79	7	4,676.24	7	4,334.05	7	3,967.22	7	3,580.97	7	3,192.94	7	2,804.91	7	2,416.88	7	2,028.86		
1/4		1/4	4,980.89	1/4	4,669.38	1/4	4,326.64	1/4	3,959.31	1/4	3,572.88	1/4	3,184.85	1/4	2,796.83	1/4	2,408.80	1/4	2,020.77		
1/2		1/2	4,974.98	1/2	4,662.51	1/2	4,319.24	1/2	3,951.40	1/2	3,564.80	1/2	3,176.77	1/2	2,788.74	1/2	2,400.72	1/2	2,012.69		
3/4		3/4	4,969.07	3/4	4,655.65	3/4	4,311.83	3/4	3,943.48	3/4	3,556.71	3/4	3,168.69	3/4	2,780.66	3/4	2,392.63	3/4	2,004.60		
8		8	4,963.11	8	4,648.74	8	4,304.38	8	3,935.54	8	3,548.63	8	3,160.60	8	2,772.58	8	2,384.55	8	1,996.52		
1/4		1/4	4,957.16	1/4	4,641.83	1/4	4,296.92	1/4	3,927.60	1/4	3,540.55	1/4	3,152.52	1/4	2,764.49	1/4	2,376.46	1/4	1,988.44		
1/2		1/2	4,951.20	1/2	4,634.92	1/2	4,289.47	1/2	3,919.65	1/2	3,532.46	1/2	3,144.43	1/2	2,756.41	1/2	2,368.38	1/2	1,980.35		
3/4		3/4	4,945.24	3/4	4,628.01	3/4	4,282.02	3/4	3,911.71	3/4	3,524.38	3/4	3,136.35	3/4	2,748.32	3/4	2,360.30	3/4	1,972.27		
9		9	4,939.25	9	4,621.07	9	4,274.54	9	3,903.72	9	3,516.29	9	3,128.27	9	2,740.24	9	2,352.21	9	1,964.19		
1/4		1/4	4,933.26	1/4	4,614.12	1/4	4,267.06	1/4	3,895.74	1/4	3,508.21	1/4	3,120.18	1/4	2,732.16	1/4	2,344.13	1/4	1,956.10		
1/2		1/2	4,927.27	1/2	4,607.17	1/2	4,259.58	1/2	3,887.76	1/2	3,500.13	1/2	3,112.10	1/2	2,724.07	1/2	2,336.04	1/2	1,948.02		
3/4		3/4	4,921.28	3/4	4,600.23	3/4	4,252.10	3/4	3,879.78	3/4	3,492.04	3/4	3,104.02	3/4	2,715.99	3/4	2,327.96	3/4	1,939.93		
10		10	4,915.25	10	4,593.22	10	4,244.58	10	3,871.75	10	3,483.96	10	3,095.93	10	2,707.90	10	2,319.88	10	1,931.85		
1/4		1/4	4,909.22	1/4	4,586.21	1/4	4,237.05	1/4	3,863.72	1/4	3,475.87	1/4	3,087.85	1/4	2,699.82	1/4	2,311.79	1/4	1,923.77		
1/2		1/2	4,903.19	1/2	4,579.20	1/2	4,229.53	1/2	3,855.70	1/2	3,467.79	1/2	3,079.76	1/2	2,691.74	1/2	2,303.71	1/2	1,915.68		
3/4		3/4	4,897.17	3/4	4,572.20	3/4	4,222.00	3/4	3,847.67	3/4	3,459.71	3/4	3,071.68	3/4	2,683.65	3/4	2,295.63	3/4	1,907.60		
11		11	4,890.62	11	4,565.16	11	4,214.44	11	3,839.60	11	3,451.62	11	3,063.60	11	2,675.57	11	2,287.54	11	1,899.51		
1/4		1/4	4,884.07	1/4	4,558.11	1/4	4,206.88	1/4	3,831.53	1/4	3,443.54	1/4	3,055.51	1/4	2,667.48	1/4	2,279.46	1/4	1,891.43		
1/2		1/2	4,877.52	1/2	4,551.07	1/2	4,199.31	1/2	3,823.47	1/2	3,435.46	1/2	3,047.43	1/2	2,659.40	1/2	2,271.37	1/2	1,883.35		
3/4		3/4	5,198.32	3/4	4,870.97	3/4	4,544.03	3/4	4,191.75	3/4	3,815.40	3/4	3,427.37	3/4	3,039.34	3/4	2,651.32	3/4	2,263.29	3/4	1,875.26

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'-03" OFF CENTERLINE AND 51'-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 "CTCo 354"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,867.18	0	1,479.15	0	1,091.12	0	703.40	0	315.66	0		0		0		0		0	
1/4	1,859.09	1/4	1,471.07	1/4	1,083.04	1/4	695.33	1/4	307.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,851.01	1/2	1,462.98	1/2	1,074.96	1/2	687.27	1/2	299.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,842.93	3/4	1,454.90	3/4	1,066.87	3/4	679.20	3/4	291.41	3/4		3/4		3/4		3/4		3/4	
1	1,834.84	1	1,446.82	1	1,058.79	1	671.13	1	283.33	1		1		1		1		1	
1/4	1,826.76	1/4	1,438.73	1/4	1,050.70	1/4	663.07	1/4	275.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,818.68	1/2	1,430.65	1/2	1,042.62	1/2	655.00	1/2	267.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,810.59	3/4	1,422.56	3/4	1,034.54	3/4	646.93	3/4	259.08	3/4		3/4		3/4		3/4		3/4	
2	1,802.51	2	1,414.48	2	1,026.45	2	638.86	2	250.99	2		2		2		2		2	
1/4	1,794.42	1/4	1,406.40	1/4	1,018.37	1/4	630.80	1/4	242.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,786.34	1/2	1,398.31	1/2	1,010.29	1/2	622.73	1/2	234.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,778.26	3/4	1,390.23	3/4	1,002.20	3/4	614.66	3/4	226.74	3/4		3/4		3/4		3/4		3/4	
3	1,770.17	3	1,382.14	3	994.12	3	606.59	3	218.66	3		3		3		3		3	
1/4	1,762.09	1/4	1,374.06	1/4	986.03	1/4	598.52	1/4	210.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.00	1/2	1,365.98	1/2	977.95	1/2	590.46	1/2	202.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,745.92	3/4	1,357.89	3/4	969.87	3/4	582.39	3/4	194.41	3/4		3/4		3/4		3/4		3/4	
4	1,737.84	4	1,349.81	4	961.78	4	574.31	4	186.32	4		4		4		4		4	
1/4	1,729.75	1/4	1,341.72	1/4	953.70	1/4	566.24	1/4	178.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.67	1/2	1,333.64	1/2	945.61	1/2	558.16	1/2	170.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.58	3/4	1,325.56	3/4	937.53	3/4	550.09	3/4	162.07	3/4		3/4		3/4		3/4		3/4	
5	1,705.50	5	1,317.47	5	929.45	5	542.01	5	153.99	5		5		5		5		5	
1/4	1,697.42	1/4	1,309.39	1/4	921.36	1/4	533.92	1/4	145.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.33	1/2	1,301.31	1/2	913.28	1/2	525.84	1/2	137.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,681.25	3/4	1,293.22	3/4	905.19	3/4	517.75	3/4	129.74	3/4		3/4		3/4		3/4		3/4	
6	1,673.16	6	1,285.14	6	897.11	6	509.67	6	121.65	6		6		6		6		6	
1/4	1,665.08	1/4	1,277.05	1/4	889.03	1/4	501.59	1/4	113.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,657.00	1/2	1,268.97	1/2	880.94	1/2	493.50	1/2	105.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,648.91	3/4	1,260.89	3/4	872.86	3/4	485.42	3/4	97.40	3/4		3/4		3/4		3/4		3/4	
7	1,640.83	7	1,252.80	7	864.78	7	477.34	7	89.32	7		7		7		7		7	
1/4	1,632.75	1/4	1,244.72	1/4	856.71	1/4	469.25	1/4	81.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,624.66	1/2	1,236.63	1/2	848.63	1/2	461.17	1/2	73.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,616.58	3/4	1,228.55	3/4	840.56	3/4	453.09	3/4	65.07	3/4		3/4		3/4		3/4		3/4	
8	1,608.49	8	1,220.47	8	832.49	8	445.00	8	57.99	8		8		8		8		8	
1/4	1,600.41	1/4	1,212.38	1/4	824.42	1/4	436.92	1/4	50.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,592.33	1/2	1,204.30	1/2	816.35	1/2	428.83	1/2	43.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,584.24	3/4	1,196.21	3/4	808.29	3/4	420.75	3/4	36.77	3/4		3/4		3/4		3/4		3/4	
9	1,576.16	9	1,188.13	9	800.22	9	412.67	9	31.72	9		9		9		9		9	
1/4	1,568.07	1/4	1,180.05	1/4	792.15	1/4	404.58	1/4	26.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,559.99	1/2	1,171.96	1/2	784.08	1/2	396.50	1/2	21.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,551.91	3/4	1,163.88	3/4	776.01	3/4	388.42	3/4	16.57	3/4		3/4		3/4		3/4		3/4	
10	1,543.82	10	1,155.80	10	767.95	10	380.33	10		10		10		10		10		10	
1/4	1,535.74	1/4	1,147.71	1/4	759.88	1/4	372.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,527.65	1/2	1,139.63	1/2	751.81	1/2	364.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,519.57	3/4	1,131.54	3/4	743.74	3/4	356.08	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,511.49	11	1,123.46	11	735.67	11	348.00	11		11		11		11		11		11	
1/4	1,503.40	1/4	1,115.38	1/4	727.60	1/4	339.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,495.32	1/2	1,107.29	1/2	719.54	1/2	331.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,487.24	3/4	1,099.21	3/4	711.47	3/4	323.75	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2014 SW  
CALCULATED: 03/15/2014 CL  
PRINTED: 03/15/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2014

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



# BARGE "CTCo 354"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

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

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'-03" OFF CENTERLINE AND 45'-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 "CTCo 354"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	1,736.86	0	1,376.79	0	1,016.13	0	661.53	0	308.69	0		0		0		0		0	
1/4	1,729.36	1/4	1,369.28	1/4	1,008.62	1/4	654.31	1/4	301.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.87	1/2	1,361.77	1/2	1,001.10	1/2	647.10	1/2	293.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,714.38	3/4	1,354.25	3/4	993.59	3/4	639.88	3/4	286.13	3/4		3/4		3/4		3/4		3/4	
1	1,706.89	1	1,346.74	1	986.08	1	632.67	1	278.61	1		1		1		1		1	
1/4	1,699.39	1/4	1,339.22	1/4	978.56	1/4	625.45	1/4	271.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,691.90	1/2	1,331.71	1/2	971.05	1/2	618.23	1/2	263.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.41	3/4	1,324.20	3/4	963.53	3/4	611.02	3/4	256.05	3/4		3/4		3/4		3/4		3/4	
2	1,676.91	2	1,316.68	2	956.02	2	603.80	2	248.53	2		2		2		2		2	
1/4	1,669.42	1/4	1,309.17	1/4	948.51	1/4	596.59	1/4	241.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,661.93	1/2	1,301.65	1/2	940.99	1/2	589.37	1/2	233.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,654.43	3/4	1,294.14	3/4	933.48	3/4	582.15	3/4	225.97	3/4		3/4		3/4		3/4		3/4	
3	1,646.94	3	1,286.63	3	925.96	3	574.93	3	218.46	3		3		3		3		3	
1/4	1,639.45	1/4	1,279.11	1/4	918.45	1/4	567.72	1/4	210.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,631.95	1/2	1,271.60	1/2	910.94	1/2	560.50	1/2	203.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,624.46	3/4	1,264.09	3/4	903.42	3/4	553.28	3/4	195.90	3/4		3/4		3/4		3/4		3/4	
4	1,616.97	4	1,256.57	4	895.91	4	546.07	4	188.38	4		4		4		4		4	
1/4	1,609.47	1/4	1,249.06	1/4	888.40	1/4	538.85	1/4	180.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,601.98	1/2	1,241.54	1/2	880.88	1/2	531.63	1/2	173.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,594.49	3/4	1,234.03	3/4	873.37	3/4	524.40	3/4	165.82	3/4		3/4		3/4		3/4		3/4	
5	1,586.99	5	1,226.52	5	865.85	5	517.18	5	158.30	5		5		5		5		5	
1/4	1,579.50	1/4	1,219.00	1/4	858.34	1/4	509.96	1/4	150.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,572.01	1/2	1,211.49	1/2	850.83	1/2	502.72	1/2	143.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,564.51	3/4	1,203.98	3/4	843.31	3/4	495.49	3/4	135.74	3/4		3/4		3/4		3/4		3/4	
6	1,557.02	6	1,196.46	6	835.80	6	488.26	6	128.22	6		6		6		6		6	
1/4	1,549.53	1/4	1,188.95	1/4	828.29	1/4	481.03	1/4	120.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,542.03	1/2	1,181.43	1/2	820.91	1/2	473.66	1/2	113.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,534.54	3/4	1,173.92	3/4	813.53	3/4	466.29	3/4	105.67	3/4		3/4		3/4		3/4		3/4	
7	1,527.05	7	1,166.41	7	806.15	7	458.92	7	98.15	7		7		7		7		7	
1/4	1,519.56	1/4	1,158.89	1/4	798.77	1/4	451.55	1/4	90.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,512.04	1/2	1,151.38	1/2	791.54	1/2	444.03	1/2	83.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,504.53	3/4	1,143.87	3/4	784.30	3/4	436.51	3/4	75.59	3/4		3/4		3/4		3/4		3/4	
8	1,497.01	8	1,136.35	8	777.07	8	428.99	8	68.07	8		8		8		8		8	
1/4	1,489.50	1/4	1,128.84	1/4	769.83	1/4	421.47	1/4	60.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,481.99	1/2	1,121.32	1/2	762.60	1/2	413.95	1/2	53.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,474.47	3/4	1,113.81	3/4	755.37	3/4	406.44	3/4	47.39	3/4		3/4		3/4		3/4		3/4	
9	1,466.96	9	1,106.30	9	748.15	9	398.92	9	40.81	9		9		9		9		9	
1/4	1,459.44	1/4	1,098.78	1/4	740.92	1/4	391.40	1/4	34.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,451.93	1/2	1,091.27	1/2	733.70	1/2	383.88	1/2	29.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,444.42	3/4	1,083.75	3/4	726.48	3/4	376.36	3/4	24.83	3/4		3/4		3/4		3/4		3/4	
10	1,436.90	10	1,076.24	10	719.27	10	368.84	10	20.13	10		10		10		10		10	
1/4	1,429.39	1/4	1,068.73	1/4	712.05	1/4	361.32	1/4	15.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,421.88	1/2	1,061.21	1/2	704.83	1/2	353.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,414.36	3/4	1,053.70	3/4	697.62	3/4	346.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,406.85	11	1,046.19	11	690.40	11	338.76	11		11		11		11		11		11	
1/4	1,399.33	1/4	1,038.67	1/4	683.18	1/4	331.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,391.82	1/2	1,031.16	1/2	675.96	1/2	323.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,384.31	3/4	1,023.64	3/4	668.75	3/4	316.20	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2014 SW  
CALCULATED: 03/15/2014 CL  
PRINTED: 03/15/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2014

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



# BARGE "CTCo 354"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	4,410.35	0	4,175.99	0	3,964.71	0	3,731.47	0	3,476.21	0	3,166.95	0	2,806.79	0	2,446.80	0	2,086.83
1/4		1/4	4,403.82	1/4	4,171.80	1/4	3,960.06	1/4	3,726.36	1/4	3,470.67	1/4	3,159.45	1/4	2,799.29	1/4	2,439.31	1/4	2,079.32
1/2		1/2	4,397.29	1/2	4,167.61	1/2	3,955.42	1/2	3,721.24	1/2	3,465.13	1/2	3,151.94	1/2	2,791.79	1/2	2,431.82	1/2	2,071.81
3/4		3/4	4,390.76	3/4	4,163.42	3/4	3,950.77	3/4	3,716.13	3/4	3,459.59	3/4	3,144.44	3/4	2,784.28	3/4	2,424.33	3/4	2,064.31
1		1	4,384.23	1	4,159.24	1	3,946.13	1	3,711.01	1	3,454.05	1	3,136.94	1	2,776.78	1	2,416.84	1	2,056.80
1/4		1/4	4,378.69	1/4	4,155.00	1/4	3,941.44	1/4	3,705.87	1/4	3,448.50	1/4	3,129.43	1/4	2,769.28	1/4	2,409.35	1/4	2,049.29
1/2		1/2	4,373.14	1/2	4,150.77	1/2	3,936.75	1/2	3,700.72	1/2	3,442.96	1/2	3,121.93	1/2	2,761.77	1/2	2,401.86	1/2	2,041.79
3/4		3/4	4,367.60	3/4	4,146.54	3/4	3,932.06	3/4	3,695.58	3/4	3,437.42	3/4	3,114.43	3/4	2,754.27	3/4	2,394.37	3/4	2,034.28
2		2	4,362.06	2	4,142.31	2	3,927.38	2	3,690.43	2	3,431.88	2	3,106.92	2	2,746.77	2	2,386.88	2	2,026.78
1/4		1/4	4,356.52	1/4	4,138.04	1/4	3,922.65	1/4	3,685.25	1/4	3,426.33	1/4	3,099.42	1/4	2,739.26	1/4	2,379.39	1/4	2,019.27
1/2		1/2	4,350.98	1/2	4,133.78	1/2	3,917.93	1/2	3,680.07	1/2	3,420.79	1/2	3,091.92	1/2	2,731.76	1/2	2,371.90	1/2	2,011.76
3/4		3/4	4,345.43	3/4	4,129.51	3/4	3,913.21	3/4	3,674.89	3/4	3,415.25	3/4	3,084.41	3/4	2,724.26	3/4	2,364.41	3/4	2,004.26
3		3	4,339.89	3	4,125.24	3	3,908.48	3	3,669.71	3	3,409.71	3	3,076.91	3	2,716.75	3	2,356.92	3	1,996.75
1/4		1/4	4,334.35	1/4	4,120.93	1/4	3,903.72	1/4	3,664.49	1/4	3,404.16	1/4	3,069.41	1/4	2,709.25	1/4	2,349.43	1/4	1,989.24
1/2		1/2	4,328.81	1/2	4,116.62	1/2	3,898.95	1/2	3,659.27	1/2	3,398.62	1/2	3,061.90	1/2	2,701.75	1/2	2,341.94	1/2	1,981.74
3/4		3/4	4,323.26	3/4	4,112.31	3/4	3,894.18	3/4	3,654.04	3/4	3,393.08	3/4	3,054.40	3/4	2,694.24	3/4	2,334.45	3/4	1,974.23
4		4	4,317.72	4	4,107.99	4	3,889.42	4	3,648.82	4	3,387.54	4	3,046.90	4	2,686.74	4	2,326.96	4	1,966.72
1/4		1/4	4,312.18	1/4	4,103.65	1/4	3,884.62	1/4	3,643.56	1/4	3,382.00	1/4	3,039.39	1/4	2,679.24	1/4	2,319.47	1/4	1,959.22
1/2		1/2	4,306.64	1/2	4,099.31	1/2	3,879.82	1/2	3,638.31	1/2	3,376.45	1/2	3,031.89	1/2	2,671.73	1/2	2,311.98	1/2	1,951.71
3/4		3/4	4,301.09	3/4	4,094.96	3/4	3,875.01	3/4	3,633.05	3/4	3,370.91	3/4	3,024.39	3/4	2,664.23	3/4	2,304.50	3/4	1,944.20
5		5	4,295.55	5	4,090.62	5	3,870.21	5	3,627.79	5	3,365.37	5	3,016.88	5	2,656.73	5	2,297.01	5	1,936.70
1/4		1/4	4,290.01	1/4	4,086.24	1/4	3,865.37	1/4	3,622.49	1/4	3,359.83	1/4	3,009.38	1/4	2,649.22	1/4	2,289.50	1/4	1,929.19
1/2		1/2	4,284.47	1/2	4,081.86	1/2	3,860.52	1/2	3,617.19	1/2	3,354.28	1/2	3,001.88	1/2	2,641.72	1/2	2,281.99	1/2	1,921.69
3/4		3/4	4,278.93	3/4	4,077.49	3/4	3,855.67	3/4	3,611.89	3/4	3,348.74	3/4	2,994.37	3/4	2,634.22	3/4	2,274.49	3/4	1,914.18
6		6	4,273.38	6	4,073.11	6	3,850.83	6	3,606.58	6	3,343.20	6	2,986.87	6	2,626.71	6	2,266.98	6	1,906.67
1/4		1/4	4,269.42	1/4	4,068.69	1/4	3,845.95	1/4	3,601.25	1/4	3,336.67	1/4	2,979.37	1/4	2,619.21	1/4	2,259.47	1/4	1,899.17
1/2		1/2	4,265.45	1/2	4,064.27	1/2	3,841.07	1/2	3,595.91	1/2	3,330.14	1/2	2,971.86	1/2	2,611.71	1/2	2,251.97	1/2	1,891.66
3/4		3/4	4,261.49	3/4	4,059.85	3/4	3,836.19	3/4	3,590.58	3/4	3,323.61	3/4	2,964.36	3/4	2,604.20	3/4	2,244.46	3/4	1,884.15
7		7	4,257.52	7	4,055.42	7	3,831.31	7	3,585.24	7	3,317.08	7	2,956.86	7	2,596.70	7	2,236.95	7	1,876.65
1/4		1/4	4,253.53	1/4	4,050.97	1/4	3,826.40	1/4	3,579.86	1/4	3,309.57	1/4	2,949.35	1/4	2,589.20	1/4	2,229.45	1/4	1,869.14
1/2		1/2	4,249.53	1/2	4,046.51	1/2	3,821.49	1/2	3,574.48	1/2	3,302.07	1/2	2,941.85	1/2	2,581.69	1/2	2,221.94	1/2	1,861.63
3/4		3/4	4,245.53	3/4	4,042.06	3/4	3,816.58	3/4	3,569.10	3/4	3,294.56	3/4	2,934.35	3/4	2,574.19	3/4	2,214.44	3/4	1,854.13
8		8	4,241.53	8	4,037.60	8	3,811.66	8	3,563.72	8	3,287.05	8	2,926.84	8	2,566.69	8	2,206.93	8	1,846.62
1/4		1/4	4,237.48	1/4	4,033.10	1/4	3,806.71	1/4	3,558.30	1/4	3,279.55	1/4	2,919.34	1/4	2,559.18	1/4	2,199.42	1/4	1,839.12
1/2		1/2	4,233.44	1/2	4,028.60	1/2	3,801.75	1/2	3,552.89	1/2	3,272.04	1/2	2,911.84	1/2	2,551.68	1/2	2,191.92	1/2	1,831.61
3/4		3/4	4,229.39	3/4	4,024.10	3/4	3,796.80	3/4	3,547.48	3/4	3,264.53	3/4	2,904.33	3/4	2,544.18	3/4	2,184.41	3/4	1,824.10
9		9	4,225.35	9	4,019.60	9	3,791.84	9	3,542.06	9	3,257.03	9	2,896.83	9	2,536.67	9	2,176.90	9	1,816.60
1/4		1/4	4,221.27	1/4	4,015.07	1/4	3,786.85	1/4	3,536.62	1/4	3,249.52	1/4	2,889.33	1/4	2,529.18	1/4	2,169.40	1/4	1,809.09
1/2		1/2	4,217.20	1/2	4,010.54	1/2	3,781.86	1/2	3,531.17	1/2	3,242.01	1/2	2,881.82	1/2	2,521.69	1/2	2,161.89	1/2	1,801.58
3/4		3/4	4,213.12	3/4	4,006.00	3/4	3,776.87	3/4	3,525.72	3/4	3,234.51	3/4	2,874.32	3/4	2,514.20	3/4	2,154.38	3/4	1,794.08
10		10	4,209.05	10	4,001.47	10	3,771.88	10	3,520.28	10	3,227.00	10	2,866.82	10	2,506.71	10	2,146.88	10	1,786.57
1/4		1/4	4,204.93	1/4	3,996.89	1/4	3,766.85	1/4	3,514.79	1/4	3,219.49	1/4	2,859.31	1/4	2,499.22	1/4	2,139.37	1/4	1,779.12
1/2		1/2	4,200.82	1/2	3,992.31	1/2	3,761.81	1/2	3,509.30	1/2	3,211.99	1/2	2,851.81	1/2	2,491.74	1/2	2,131.86	1/2	1,771.67
3/4		3/4	4,196.71	3/4	3,987.73	3/4	3,756.78	3/4	3,503.80	3/4	3,204.48	3/4	2,844.31	3/4	2,484.25	3/4	2,124.36	3/4	1,764.22
11		11	4,192.60	11	3,983.15	11	3,751.74	11	3,498.31	11	3,196.98	11	2,836.80	11	2,476.76	11	2,116.85	11	1,756.77
1/4		1/4	4,188.45	1/4	3,978.54	1/4	3,746.67	1/4	3,492.79	1/4	3,189.47	1/4	2,829.30	1/4	2,469.27	1/4	2,109.35	1/4	1,749.32
1/2		1/2	4,184.30	1/2	3,973.93	1/2	3,741.61	1/2	3,487.26	1/2	3,181.96	1/2	2,821.80	1/2	2,461.78	1/2	2,101.84	1/2	1,741.87
3/4		3/4	4,180.14	3/4	3,969.32	3/4	3,736.54	3/4	3,481.74	3/4	3,174.46	3/4	2,814.29	3/4	2,454.29	3/4	2,094.33	3/4	1,734.43

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'-03" OFF CENTERLINE AND 45'-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 "CTCo 354"

## 3 STBD ULLAGE TABLE HERMETIC GAUGE HEIGHT 14'-10"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,726.98	0	1,368.95	0	1,008.65	0	654.17	0	300.71	0		0		0		0		0	
1/4	1,719.53	1/4	1,361.45	1/4	1,001.14	1/4	646.93	1/4	293.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,712.08	1/2	1,353.94	1/2	993.64	1/2	639.70	1/2	285.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.63	3/4	1,346.43	3/4	986.13	3/4	632.46	3/4	278.20	3/4		3/4		3/4		3/4		3/4	
1	1,697.18	1	1,338.93	1	978.63	1	978.63	1	270.69	1		1		1		1		1	
1/4	1,689.73	1/4	1,331.42	1/4	971.12	1/4	617.98	1/4	263.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,682.28	1/2	1,323.92	1/2	963.61	1/2	610.74	1/2	255.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,674.83	3/4	1,316.41	3/4	956.11	3/4	603.51	3/4	248.17	3/4		3/4		3/4		3/4		3/4	
2	1,667.38	2	1,308.90	2	948.60	2	948.60	2	240.67	2		2		2		2		2	
1/4	1,659.93	1/4	1,301.40	1/4	941.09	1/4	589.03	1/4	233.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,652.48	1/2	1,293.89	1/2	933.59	1/2	581.79	1/2	225.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,645.03	3/4	1,286.38	3/4	926.08	3/4	574.55	3/4	218.15	3/4		3/4		3/4		3/4		3/4	
3	1,637.58	3	1,278.88	3	918.58	3	918.58	3	210.64	3		3		3		3		3	
1/4	1,630.14	1/4	1,271.37	1/4	911.07	1/4	560.07	1/4	203.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,622.69	1/2	1,263.87	1/2	903.56	1/2	552.83	1/2	195.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,615.24	3/4	1,256.36	3/4	896.06	3/4	545.59	3/4	188.12	3/4		3/4		3/4		3/4		3/4	
4	1,607.79	4	1,248.85	4	888.55	4	888.55	4	180.62	4		4		4		4		4	
1/4	1,600.34	1/4	1,241.35	1/4	881.04	1/4	531.11	1/4	173.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,592.89	1/2	1,233.84	1/2	873.54	1/2	523.86	1/2	165.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,585.44	3/4	1,226.33	3/4	866.03	3/4	516.62	3/4	158.10	3/4		3/4		3/4		3/4		3/4	
5	1,577.99	5	1,218.83	5	858.53	5	858.53	5	150.59	5		5		5		5		5	
1/4	1,570.54	1/4	1,211.32	1/4	851.02	1/4	502.12	1/4	143.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,563.09	1/2	1,203.82	1/2	843.51	1/2	494.86	1/2	135.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,555.64	3/4	1,196.31	3/4	836.01	3/4	487.61	3/4	128.07	3/4		3/4		3/4		3/4		3/4	
6	1,548.19	6	1,188.80	6	828.50	6	828.50	6	120.57	6		6		6		6		6	
1/4	1,540.74	1/4	1,181.30	1/4	821.12	1/4	472.98	1/4	113.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,533.29	1/2	1,173.79	1/2	813.74	1/2	465.60	1/2	105.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,525.84	3/4	1,166.28	3/4	806.36	3/4	458.22	3/4	98.05	3/4		3/4		3/4		3/4		3/4	
7	1,518.40	7	1,158.78	7	798.98	7	798.98	7	90.54	7		7		7		7		7	
1/4	1,510.95	1/4	1,151.27	1/4	791.73	1/4	443.33	1/4	83.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,503.50	1/2	1,143.76	1/2	784.49	1/2	435.82	1/2	75.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,496.05	3/4	1,136.26	3/4	777.24	3/4	428.32	3/4	68.03	3/4		3/4		3/4		3/4		3/4	
8	1,488.60	8	1,128.75	8	769.99	8	769.99	8	60.52	8		8		8		8		8	
1/4	1,481.15	1/4	1,121.25	1/4	762.75	1/4	413.31	1/4	53.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,473.70	1/2	1,113.74	1/2	755.52	1/2	405.80	1/2	47.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,466.25	3/4	1,106.23	3/4	748.28	3/4	398.29	3/4	40.82	3/4		3/4		3/4		3/4		3/4	
9	1,458.80	9	1,098.73	9	741.04	9	741.04	9	34.25	9		9		9		9		9	
1/4	1,451.35	1/4	1,091.22	1/4	733.80	1/4	383.28	1/4	29.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,443.90	1/2	1,083.71	1/2	726.56	1/2	375.78	1/2	24.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,436.45	3/4	1,076.21	3/4	719.32	3/4	368.27	3/4	20.15	3/4		3/4		3/4		3/4		3/4	
10	1,429.00	10	1,068.70	10	712.08	10	712.08	10	15.45	10		10		10		10		10	
1/4	1,421.50	1/4	1,061.20	1/4	704.84	1/4	353.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,413.99	1/2	1,053.69	1/2	697.60	1/2	345.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,406.49	3/4	1,046.18	3/4	690.37	3/4	338.24	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,398.98	11	1,038.68	11	683.13	11	683.13	11	330.74	11		11		11		11		11	
1/4	1,391.47	1/4	1,031.17	1/4	675.89	1/4	323.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,383.97	1/2	1,023.66	1/2	668.65	1/2	315.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,376.46	3/4	1,016.16	3/4	661.41	3/4	308.22	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2014 SW  
CALCULATED: 03/15/2014 CL  
PRINTED: 03/15/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2014

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