



BARGE "CTCo 328"

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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 4, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 328"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

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	4,763.01	1/4	4,424.88	1/4	4,065.77	1/4	3,700.15	1/4	3,334.23	1/4	2,968.04	1/4	2,601.67	1/4	2,235.29		
1/2		1/2	5,083.84	1/2	4,749.41	1/2	4,410.35	1/2	4,050.54	1/2	3,684.91	1/2	3,318.97	1/2	2,952.78	1/2	2,586.40	1/2	2,220.02		
3/4		3/4	5,077.42	3/4	4,742.57	3/4	4,403.04	3/4	4,042.92	3/4	3,677.30	3/4	3,311.34	3/4	2,945.15	3/4	2,578.77	3/4	2,212.39		
1	1	1	5,071.00	1	4,735.73	1	4,395.73	1	4,035.31	1	3,669.68	1	3,303.72	1	2,937.52	1	2,571.14	1	2,204.76		
1/4		1/4	5,064.58	1/4	4,728.90	1/4	4,388.41	1/4	4,027.69	1/4	3,662.06	1/4	3,296.09	1/4	2,929.88	1/4	2,563.50	1/4	2,197.12		
1/2		1/2	5,058.16	1/2	4,722.06	1/2	4,381.10	1/2	4,020.07	1/2	3,654.45	1/2	3,288.46	1/2	2,922.25	1/2	2,555.87	1/2	2,189.49		
3/4		3/4	5,050.79	3/4	4,715.16	3/4	4,373.75	3/4	4,012.45	3/4	3,646.83	3/4	3,280.83	3/4	2,914.62	3/4	2,548.24	3/4	2,181.86		
2	2	2	5,043.42	2	4,708.26	2	4,366.40	2	4,004.84	2	3,639.21	2	3,273.20	2	2,906.98	2	2,540.60	2	2,174.23		
1/4		1/4	5,036.05	1/4	4,701.36	1/4	4,359.04	1/4	3,997.22	1/4	3,631.59	1/4	3,265.57	1/4	2,899.35	1/4	2,532.97	1/4	2,166.59		
1/2		1/2	5,028.68	1/2	4,694.46	1/2	4,351.69	1/2	3,989.60	1/2	3,623.98	1/2	3,257.94	1/2	2,891.72	1/2	2,525.34	1/2	2,158.96		
3/4		3/4	5,021.12	3/4	4,687.52	3/4	4,344.31	3/4	3,981.99	3/4	3,616.36	3/4	3,250.31	3/4	2,884.09	3/4	2,517.71	3/4	2,151.33		
3	3	3	5,013.56	3	4,680.58	3	4,336.92	3	3,974.37	3	3,608.74	3	3,242.68	3	2,876.45	3	2,510.07	3	2,143.69		
1/4		1/4	5,006.00	1/4	4,673.63	1/4	4,329.54	1/4	3,966.75	1/4	3,601.13	1/4	3,235.06	1/4	2,868.82	1/4	2,502.44	1/4	2,136.06		
1/2		1/2	4,998.44	1/2	4,666.69	1/2	4,322.15	1/2	3,959.13	1/2	3,593.51	1/2	3,227.43	1/2	2,861.19	1/2	2,494.81	1/2	2,128.43		
3/4		3/4	4,990.88	3/4	4,659.71	3/4	4,314.73	3/4	3,951.52	3/4	3,585.89	3/4	3,219.80	3/4	2,853.55	3/4	2,487.17	3/4	2,120.80		
4	4	4	4,983.32	4	4,652.72	4	4,307.31	4	3,943.90	4	3,578.27	4	3,212.17	4	2,845.92	4	2,479.54	4	2,113.16		
1/4		1/4	4,975.76	1/4	4,645.74	1/4	4,299.89	1/4	3,936.28	1/4	3,570.66	1/4	3,204.54	1/4	2,838.29	1/4	2,471.91	1/4	2,105.53		
1/2		1/2	4,968.20	1/2	4,638.76	1/2	4,292.47	1/2	3,928.66	1/2	3,563.04	1/2	3,196.91	1/2	2,830.65	1/2	2,464.28	1/2	2,097.90		
3/4		3/4	4,960.64	3/4	4,631.74	3/4	4,285.02	3/4	3,921.05	3/4	3,555.42	3/4	3,189.28	3/4	2,823.02	3/4	2,456.64	3/4	2,090.26		
5	5	5	4,953.08	5	4,624.72	5	4,277.57	5	3,913.43	5	3,547.80	5	3,181.65	5	2,815.39	5	2,449.01	5	2,082.63		
1/4		1/4	4,945.52	1/4	4,617.70	1/4	4,270.11	1/4	3,905.81	1/4	3,540.19	1/4	3,174.03	1/4	2,807.76	1/4	2,441.38	1/4	2,075.00		
1/2		1/2	4,937.96	1/2	4,610.68	1/2	4,262.66	1/2	3,898.20	1/2	3,532.57	1/2	3,166.40	1/2	2,800.12	1/2	2,433.74	1/2	2,067.36		
3/4		3/4	4,931.12	3/4	4,603.63	3/4	4,255.17	3/4	3,890.58	3/4	3,524.94	3/4	3,158.77	3/4	2,792.49	3/4	2,426.11	3/4	2,059.73		
6	6	6	4,924.27	6	4,596.58	6	4,247.67	6	3,882.96	6	3,517.32	6	3,151.14	6	2,784.86	6	2,418.48	6	2,052.10		
1/4		1/4	4,917.43	1/4	4,589.52	1/4	4,240.18	1/4	3,875.34	1/4	3,509.69	1/4	3,143.51	1/4	2,777.22	1/4	2,410.85	1/4	2,044.47		
1/2		1/2	4,910.59	1/2	4,582.47	1/2	4,232.69	1/2	3,867.73	1/2	3,502.06	1/2	3,135.88	1/2	2,769.59	1/2	2,403.21	1/2	2,036.83		
3/4		3/4	4,903.96	3/4	4,575.39	3/4	4,225.16	3/4	3,860.11	3/4	3,494.44	3/4	3,128.25	3/4	2,761.96	3/4	2,395.58	3/4	2,029.74		
7	7	7	4,897.33	7	4,568.30	7	4,217.63	7	3,852.49	7	3,486.81	7	3,120.62	7	2,754.33	7	2,387.95	7	2,022.65		
1/4		1/4	4,890.70	1/4	4,561.21	1/4	4,210.10	1/4	3,844.88	1/4	3,479.18	1/4	3,113.00	1/4	2,746.69	1/4	2,380.31	1/4	2,015.56		
1/2		1/2	4,884.07	1/2	4,554.13	1/2	4,202.57	1/2	3,837.26	1/2	3,471.55	1/2	3,105.37	1/2	2,739.06	1/2	2,372.68	1/2	2,008.46		
3/4		3/4	4,877.41	3/4	4,547.01	3/4	4,195.01	3/4	3,829.64	3/4	3,463.92	3/4	3,097.74	3/4	2,731.43	3/4	2,365.05	3/4	2,001.55		
8	8	8	4,870.75	8	4,539.89	8	4,187.44	8	3,822.02	8	3,456.29	8	3,090.11	8	2,723.79	8	2,357.41	8	1,994.64		
1/4		1/4	4,864.09	1/4	4,532.77	1/4	4,179.88	1/4	3,814.41	1/4	3,448.66	1/4	3,082.48	1/4	2,716.16	1/4	2,349.78	1/4	1,987.73		
1/2		1/2	4,857.43	1/2	4,525.65	1/2	4,172.32	1/2	3,806.79	1/2	3,441.03	1/2	3,074.85	1/2	2,708.53	1/2	2,342.15	1/2	1,980.82		
3/4		3/4	4,850.73	3/4	4,518.49	3/4	4,164.72	3/4	3,799.17	3/4	3,433.40	3/4	3,067.22	3/4	2,700.90	3/4	2,334.52	3/4	1,973.39		
9	9	9	4,844.03	9	4,511.34	9	4,157.13	9	3,791.56	9	3,425.78	9	3,059.59	9	2,693.26	9	2,326.88	9	1,965.96		
1/4		1/4	4,837.33	1/4	4,504.19	1/4	4,149.53	1/4	3,783.94	1/4	3,418.15	1/4	3,051.96	1/4	2,685.63	1/4	2,319.25	1/4	1,958.54		
1/2		1/2	4,830.63	1/2	4,497.03	1/2	4,141.93	1/2	3,776.32	1/2	3,410.52	1/2	3,044.34	1/2	2,678.00	1/2	2,311.62	1/2	1,951.11		
3/4		3/4	4,823.90	3/4	4,489.85	3/4	4,134.32	3/4	3,768.70	3/4	3,402.89	3/4	3,036.71	3/4	2,670.36	3/4	2,303.98	3/4	1,943.51		
10	10	10	4,817.16	10	4,482.66	10	4,126.71	10	3,761.09	10	3,395.26	10	3,029.08	10	2,662.73	10	2,296.35	10	1,935.91		
1/4		1/4	4,810.43	1/4	4,475.47	1/4	4,119.09	1/4	3,753.47	1/4	3,387.63	1/4	3,021.45	1/4	2,655.10	1/4	2,288.72	1/4	1,928.31		
1/2		1/2	4,803.69	1/2	4,468.28	1/2	4,111.48	1/2	3,745.85	1/2	3,380.00	1/2	3,013.82	1/2	2,647.47	1/2	2,281.09	1/2	1,920.71		
3/4		3/4	4,796.92	3/4	4,461.06	3/4	4,103.86	3/4	3,738.23	3/4	3,372.37	3/4	3,006.19	3/4	2,639.83	3/4	2,273.45	3/4	1,913.12		
11	11	11	4,790.15	11	4,453.84	11	4,096.24	11	3,730.62	11	3,364.75	11	2,998.56	11	2,632.20	11	2,265.82	11	1,905.52		
1/4		1/4	4,783.38	1/4	4,446.62	1/4	4,088.63	1/4	3,723.00	1/4	3,357.12	1/4	2,990.93	1/4	2,624.57	1/4	2,258.19	1/4	1,897.92		
1/2		1/2	4,776.62	1/2	4,439.40	1/2	4,081.01	1/2	3,715.38	1/2	3,349.49	1/2	2,983.31	1/2	2,616.93	1/2	2,250.55	1/2	1,890.32		
3/4		3/4	4,769.81	3/4	4,432.14	3/4	4,073.39	3/4	3,707.77	3/4	3,341.86	3/4	2,975.67	3/4	2,609.30	3/4	2,242.92	3/4	1,882.69		

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'-09" OFF CENTERLINE AND 44'-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 328"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,875.07	0	1,508.64	0	1,142.24	0	777.93	0	415.14	0	92.48	0		0		0		0	
1/4	1,867.44	1/4	1,501.00	1/4	1,134.62	1/4	770.31	1/4	407.90	1/4	86.30	1/4		1/4		1/4		1/4	
1/2	1,859.82	1/2	1,493.37	1/2	1,127.01	1/2	762.69	1/2	400.65	1/2	80.12	1/2		1/2		1/2		1/2	
3/4	1,852.18	3/4	1,485.73	3/4	1,119.41	3/4	755.06	3/4	393.49	3/4	74.04	3/4		3/4		3/4		3/4	
1	1,844.55	1	1,478.10	1	1,111.80	1	747.42	1	386.34	1	67.96	1		1		1		1	
1/4	1,836.91	1/4	1,470.47	1/4	1,104.20	1/4	739.79	1/4	379.18	1/4	61.89	1/4		1/4		1/4		1/4	
1/2	1,829.28	1/2	1,462.83	1/2	1,096.59	1/2	732.15	1/2	372.02	1/2	55.81	1/2		1/2		1/2		1/2	
3/4	1,821.64	3/4	1,455.20	3/4	1,089.00	3/4	724.52	3/4	364.95	3/4	50.52	3/4		3/4		3/4		3/4	
2	1,814.01	2	1,447.56	2	1,081.40	2	716.89	2	357.88	2	45.23	2		2		2		2	
1/4	1,806.38	1/4	1,439.93	1/4	1,073.81	1/4	709.25	1/4	350.81	1/4	39.93	1/4		1/4		1/4		1/4	
1/2	1,798.74	1/2	1,432.29	1/2	1,066.22	1/2	701.62	1/2	343.74	1/2	34.64	1/2		1/2		1/2		1/2	
3/4	1,791.11	3/4	1,424.66	3/4	1,058.62	3/4	693.98	3/4	336.76	3/4	30.75	3/4		3/4		3/4		3/4	
3	1,783.47	3	1,417.03	3	1,051.03	3	686.35	3	329.77	3	26.87	3		3		3		3	
1/4	1,775.84	1/4	1,409.39	1/4	1,043.44	1/4	678.72	1/4	322.79	1/4	22.99	1/4		1/4		1/4		1/4	
1/2	1,768.20	1/2	1,401.76	1/2	1,035.85	1/2	671.08	1/2	315.80	1/2	19.11	1/2		1/2		1/2		1/2	
3/4	1,760.57	3/4	1,394.12	3/4	1,028.27	3/4	663.45	3/4	308.91	3/4		3/4		3/4		3/4		3/4	
4	1,752.93	4	1,386.49	4	1,020.68	4	655.81	4	302.01	4		4		4		4		4	
1/4	1,745.30	1/4	1,378.85	1/4	1,013.10	1/4	648.18	1/4	295.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,737.67	1/2	1,371.22	1/2	1,005.51	1/2	640.55	1/2	288.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,730.03	3/4	1,363.59	3/4	997.93	3/4	632.91	3/4	281.40	3/4		3/4		3/4		3/4		3/4	
5	1,722.40	5	1,355.95	5	990.35	5	625.28	5	274.59	5		5		5		5		5	
1/4	1,714.76	1/4	1,348.32	1/4	982.76	1/4	617.64	1/4	267.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,707.13	1/2	1,340.68	1/2	975.18	1/2	610.01	1/2	260.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.49	3/4	1,333.05	3/4	967.59	3/4	602.37	3/4	254.25	3/4		3/4		3/4		3/4		3/4	
6	1,691.86	6	1,325.41	6	960.01	6	594.74	6	247.52	6		6		6		6		6	
1/4	1,684.23	1/4	1,317.78	1/4	952.43	1/4	587.11	1/4	240.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,676.59	1/2	1,310.15	1/2	944.84	1/2	579.47	1/2	234.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,668.96	3/4	1,302.51	3/4	937.26	3/4	571.85	3/4	227.44	3/4		3/4		3/4		3/4		3/4	
7	1,661.32	7	1,294.88	7	929.68	7	564.22	7	220.80	7		7		7		7		7	
1/4	1,653.69	1/4	1,287.24	1/4	922.09	1/4	556.59	1/4	214.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.05	1/2	1,279.61	1/2	914.51	1/2	548.97	1/2	207.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,638.42	3/4	1,271.97	3/4	906.93	3/4	541.39	3/4	200.97	3/4		3/4		3/4		3/4		3/4	
8	1,630.79	8	1,264.34	8	899.34	8	533.80	8	194.42	8		8		8		8		8	
1/4	1,623.15	1/4	1,256.71	1/4	891.76	1/4	526.22	1/4	187.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,615.52	1/2	1,249.07	1/2	884.18	1/2	518.64	1/2	181.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,607.88	3/4	1,241.44	3/4	876.59	3/4	511.13	3/4	174.86	3/4		3/4		3/4		3/4		3/4	
9	1,600.25	9	1,233.80	9	869.01	9	503.63	9	168.39	9		9		9		9		9	
1/4	1,592.61	1/4	1,226.17	1/4	861.43	1/4	496.13	1/4	161.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,584.98	1/2	1,218.53	1/2	853.84	1/2	488.62	1/2	155.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,577.35	3/4	1,210.90	3/4	846.26	3/4	481.20	3/4	149.09	3/4		3/4		3/4		3/4		3/4	
10	1,569.71	10	1,203.27	10	838.68	10	473.79	10	142.72	10		10		10		10		10	
1/4	1,562.08	1/4	1,195.63	1/4	831.09	1/4	466.37	1/4	136.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,554.44	1/2	1,188.00	1/2	823.51	1/2	458.95	1/2	129.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,546.81	3/4	1,180.36	3/4	815.93	3/4	451.62	3/4	123.69	3/4		3/4		3/4		3/4		3/4	
11	1,539.17	11	1,172.73	11	808.34	11	444.29	11	117.41	11		11		11		11		11	
1/4	1,531.54	1/4	1,165.09	1/4	800.76	1/4	436.96	1/4	111.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,523.91	1/2	1,157.46	1/2	793.18	1/2	429.63	1/2	104.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,516.27	3/4	1,149.85	3/4	785.56	3/4	422.38	3/4	98.67	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 SW
CALCULATED: 06/04/2014 CL
PRINTED: 06/06/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2014

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



BARGE "CTCo 328"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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	4,771.85	1/4	4,434.72	1/4	4,076.42	1/4	3,710.89	1/4	3,345.35	1/4	2,979.82	1/4	2,614.10	1/4	2,248.37		
1/2		1/2		1/2	4,765.05	1/2	4,427.46	1/2	4,068.81	1/2	3,703.27	1/2	3,337.74	1/2	2,972.20	1/2	2,606.48	1/2	2,240.75		
3/4		3/4		3/4	4,758.25	3/4	4,420.20	3/4	4,061.19	3/4	3,695.66	3/4	3,330.12	3/4	2,964.58	3/4	2,598.86	3/4	2,233.13		
1	1	1	1	1	4,751.45	1	4,412.94	1	4,053.58	1	3,688.04	1	3,322.51	1	2,956.96	1	2,591.24	1	2,225.51		
1/4		1/4	5,078.99	1/4	4,744.65	1/4	4,405.68	1/4	4,045.96	1/4	3,680.43	1/4	3,314.89	1/4	2,949.35	1/4	2,583.62	1/4	2,217.89		
1/2		1/2	5,072.57	1/2	4,737.82	1/2	4,398.37	1/2	4,038.35	1/2	3,672.81	1/2	3,307.28	1/2	2,941.73	1/2	2,576.00	1/2	2,210.27		
3/4		3/4	5,066.16	3/4	4,730.98	3/4	4,391.06	3/4	4,030.73	3/4	3,665.20	3/4	3,299.66	3/4	2,934.11	3/4	2,568.38	3/4	2,202.65		
2	2	2	5,059.74	2	4,724.15	2	4,383.75	2	4,023.12	2	3,657.58	2	3,292.05	2	2,926.49	2	2,560.76	2	2,195.03		
1/4		1/4	5,053.33	1/4	4,717.31	1/4	4,376.44	1/4	4,015.50	1/4	3,649.97	1/4	3,284.43	1/4	2,918.87	1/4	2,553.14	1/4	2,187.42		
1/2		1/2	5,045.96	1/2	4,710.42	1/2	4,369.09	1/2	4,007.88	1/2	3,642.35	1/2	3,276.82	1/2	2,911.25	1/2	2,545.52	1/2	2,179.80		
3/4		3/4	5,038.59	3/4	4,703.52	3/4	4,361.74	3/4	4,000.27	3/4	3,634.74	3/4	3,269.20	3/4	2,903.63	3/4	2,537.90	3/4	2,172.18		
3	3	3	5,031.22	3	4,696.62	3	4,354.38	3	3,992.65	3	3,627.12	3	3,261.59	3	2,896.01	3	2,530.28	3	2,164.56		
1/4		1/4	5,023.86	1/4	4,689.72	1/4	4,347.03	1/4	3,985.04	1/4	3,619.50	1/4	3,253.97	1/4	2,888.39	1/4	2,522.66	1/4	2,156.94		
1/2		1/2	5,016.30	1/2	4,682.78	1/2	4,339.65	1/2	3,977.42	1/2	3,611.89	1/2	3,246.35	1/2	2,880.77	1/2	2,515.05	1/2	2,149.32		
3/4		3/4	5,008.74	3/4	4,675.84	3/4	4,332.27	3/4	3,969.81	3/4	3,604.27	3/4	3,238.74	3/4	2,873.15	3/4	2,507.43	3/4	2,141.70		
4	4	4	5,001.18	4	4,668.90	4	4,324.88	4	3,962.19	4	3,596.66	4	3,231.12	4	2,865.53	4	2,499.81	4	2,134.08		
1/4		1/4	4,993.62	1/4	4,661.96	1/4	4,317.50	1/4	3,954.58	1/4	3,589.04	1/4	3,223.51	1/4	2,857.91	1/4	2,492.19	1/4	2,126.46		
1/2		1/2	4,986.06	1/2	4,654.97	1/2	4,310.08	1/2	3,946.96	1/2	3,581.43	1/2	3,215.89	1/2	2,850.29	1/2	2,484.57	1/2	2,118.84		
3/4		3/4	4,978.51	3/4	4,647.99	3/4	4,302.66	3/4	3,939.35	3/4	3,573.81	3/4	3,208.28	3/4	2,842.68	3/4	2,476.95	3/4	2,111.22		
5	5	5	4,970.95	5	4,641.01	5	4,295.25	5	3,931.73	5	3,566.20	5	3,200.66	5	2,835.06	5	2,469.33	5	2,103.60		
1/4		1/4	4,963.39	1/4	4,634.03	1/4	4,287.83	1/4	3,924.12	1/4	3,558.58	1/4	3,193.05	1/4	2,827.44	1/4	2,461.71	1/4	2,095.98		
1/2		1/2	4,955.83	1/2	4,627.01	1/2	4,280.38	1/2	3,916.50	1/2	3,550.97	1/2	3,185.43	1/2	2,819.82	1/2	2,454.09	1/2	2,088.36		
3/4		3/4	4,948.28	3/4	4,620.00	3/4	4,272.93	3/4	3,908.89	3/4	3,543.35	3/4	3,177.82	3/4	2,812.20	3/4	2,446.47	3/4	2,080.75		
6	6	6	4,940.72	6	4,612.98	6	4,265.47	6	3,901.27	6	3,535.74	6	3,170.20	6	2,804.58	6	2,438.85	6	2,073.13		
1/4		1/4	4,933.16	1/4	4,605.96	1/4	4,258.02	1/4	3,893.66	1/4	3,528.12	1/4	3,162.59	1/4	2,796.96	1/4	2,431.23	1/4	2,065.51		
1/2		1/2	4,926.32	1/2	4,598.91	1/2	4,250.53	1/2	3,886.04	1/2	3,520.51	1/2	3,154.97	1/2	2,789.34	1/2	2,423.61	1/2	2,057.89		
3/4		3/4	4,919.48	3/4	4,591.86	3/4	4,243.04	3/4	3,878.42	3/4	3,512.89	3/4	3,147.36	3/4	2,781.72	3/4	2,415.99	3/4	2,050.27		
7	7	7	4,912.64	7	4,584.81	7	4,235.55	7	3,870.81	7	3,505.27	7	3,139.74	7	2,774.10	7	2,408.38	7	2,042.65		
1/4		1/4	4,905.79	1/4	4,577.76	1/4	4,228.06	1/4	3,863.19	1/4	3,497.66	1/4	3,132.13	1/4	2,766.48	1/4	2,400.76	1/4	2,035.03		
1/2		1/2	4,899.17	1/2	4,570.67	1/2	4,220.53	1/2	3,855.58	1/2	3,490.04	1/2	3,124.51	1/2	2,758.86	1/2	2,393.14	1/2	2,027.95		
3/4		3/4	4,892.54	3/4	4,563.59	3/4	4,213.00	3/4	3,847.96	3/4	3,482.43	3/4	3,116.89	3/4	2,751.24	3/4	2,385.52	3/4	2,020.87		
8	8	8	4,885.91	8	4,556.50	8	4,205.48	8	3,840.35	8	3,474.81	8	3,109.28	8	2,743.62	8	2,377.90	8	2,013.79		
1/4		1/4	4,879.28	1/4	4,549.42	1/4	4,197.95	1/4	3,832.73	1/4	3,467.20	1/4	3,101.66	1/4	2,736.01	1/4	2,370.28	1/4	2,006.71		
1/2		1/2	4,872.62	1/2	4,542.30	1/2	4,190.39	1/2	3,825.12	1/2	3,459.58	1/2	3,094.05	1/2	2,728.39	1/2	2,362.66	1/2	1,999.82		
3/4		3/4	4,865.96	3/4	4,535.18	3/4	4,182.83	3/4	3,817.50	3/4	3,451.97	3/4	3,086.43	3/4	2,720.77	3/4	2,355.04	3/4	1,992.92		
9	9	9	4,859.31	9	4,528.06	9	4,175.27	9	3,809.89	9	3,444.35	9	3,078.82	9	2,713.15	9	2,347.42	9	1,986.02		
1/4		1/4	4,852.65	1/4	4,520.95	1/4	4,167.71	1/4	3,802.27	1/4	3,436.74	1/4	3,071.20	1/4	2,705.53	1/4	2,339.80	1/4	1,979.12		
1/2		1/2	4,845.95	1/2	4,513.79	1/2	4,160.11	1/2	3,794.66	1/2	3,429.12	1/2	3,063.59	1/2	2,697.91	1/2	2,332.18	1/2	1,971.71		
3/4		3/4	4,839.25	3/4	4,506.64	3/4	4,152.52	3/4	3,787.04	3/4	3,421.51	3/4	3,055.97	3/4	2,690.29	3/4	2,324.56	3/4	1,964.29		
10	10	10	4,832.55	10	4,499.49	10	4,144.92	10	3,779.43	10	3,413.89	10	3,048.36	10	2,682.67	10	2,316.94	10	1,956.88		
1/4		1/4	4,825.86	1/4	4,492.34	1/4	4,137.33	1/4	3,771.81	1/4	3,406.28	1/4	3,040.74	1/4	2,675.05	1/4	2,309.32	1/4	1,949.47		
1/2		1/2	4,819.12	1/2	4,485.15	1/2	4,129.72	1/2	3,764.20	1/2	3,398.66	1/2	3,033.13	1/2	2,667.43	1/2	2,301.71	1/2	1,941.88		
3/4		3/4	4,812.39	3/4	4,477.97	3/4	4,122.11	3/4	3,756.58	3/4	3,391.05	3/4	3,025.51	3/4	2,659.81	3/4	2,294.09	3/4	1,934.30		
11	11	11	4,805.66	11	4,470.78	11	4,114.50	11	3,748.96	11	3,383.43	11	3,017.90	11	2,652.19	11	2,286.47	11	1,926.71		
1/4		1/4	4,798.92	1/4	4,463.60	1/4	4,106.88	1/4	3,741.35	1/4	3,375.81	1/4	3,010.28	1/4	2,644.57	1/4	2,278.85	1/4	1,919.13		
1/2		1/2	4,792.16	1/2	4,456.38	1/2	4,099.27	1/2	3,733.73	1/2	3,368.20	1/2	3,002.67	1/2	2,636.95	1/2	2,271.23	1/2	1,911.54		
3/4		3/4	4,785.39	3/4	4,449.16	3/4	4,091.65	3/4	3,726.12	3/4	3,360.58	3/4	2,995.05	3/4	2,629.34	3/4	2,263.61	3/4	1,903.96		

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'-09" OFF CENTERLINE AND 44'-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 328"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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	1,896.37	0	1,530.65	0	1,164.85	0	799.52	0	436.36	0	111.11	0		0		0		0	
1/4	1,888.78	1/4	1,523.03	1/4	1,157.23	1/4	791.91	1/4	429.04	1/4	104.83	1/4		1/4		1/4		1/4	
1/2	1,881.17	1/2	1,515.41	1/2	1,149.61	1/2	784.30	1/2	421.81	1/2	98.65	1/2		1/2		1/2		1/2	
3/4	1,873.56	3/4	1,507.79	3/4	1,141.99	3/4	776.68	3/4	414.58	3/4	92.47	3/4		3/4		3/4		3/4	
1	1,865.95	1	1,500.16	1	1,134.37	1	769.06	1	407.35	1	86.29	1		1		1		1	
1/4	1,858.34	1/4	1,492.54	1/4	1,126.75	1/4	761.45	1/4	400.12	1/4	80.10	1/4		1/4		1/4		1/4	
1/2	1,850.72	1/2	1,484.92	1/2	1,119.12	1/2	753.82	1/2	392.97	1/2	74.03	1/2		1/2		1/2		1/2	
3/4	1,843.10	3/4	1,477.30	3/4	1,111.50	3/4	746.20	3/4	385.83	3/4	67.95	3/4		3/4		3/4		3/4	
2	1,835.48	2	1,469.68	2	1,103.88	2	738.58	2	378.68	2	61.88	2		2		2		2	
1/4	1,827.86	1/4	1,462.06	1/4	1,096.26	1/4	730.96	1/4	371.54	1/4	55.81	1/4		1/4		1/4		1/4	
1/2	1,820.24	1/2	1,454.44	1/2	1,088.65	1/2	723.34	1/2	364.48	1/2	50.51	1/2		1/2		1/2		1/2	
3/4	1,812.62	3/4	1,446.82	3/4	1,081.03	3/4	715.72	3/4	357.42	3/4	45.22	3/4		3/4		3/4		3/4	
3	1,805.00	3	1,439.20	3	1,073.41	3	708.10	3	350.37	3	39.93	3		3		3		3	
1/4	1,797.38	1/4	1,431.58	1/4	1,065.80	1/4	700.48	1/4	343.31	1/4	34.63	1/4		1/4		1/4		1/4	
1/2	1,789.75	1/2	1,423.96	1/2	1,058.18	1/2	692.86	1/2	336.34	1/2	30.75	1/2		1/2		1/2		1/2	
3/4	1,782.13	3/4	1,416.34	3/4	1,050.57	3/4	685.24	3/4	329.37	3/4	26.87	3/4		3/4		3/4		3/4	
4	1,774.51	4	1,408.71	4	1,042.96	4	677.62	4	322.40	4	22.99	4		4		4		4	
1/4	1,766.89	1/4	1,401.09	1/4	1,035.34	1/4	670.00	1/4	315.42	1/4	19.10	1/4		1/4		1/4		1/4	
1/2	1,759.27	1/2	1,393.47	1/2	1,027.73	1/2	662.38	1/2	308.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,751.65	3/4	1,385.85	3/4	1,020.12	3/4	654.76	3/4	301.66	3/4		3/4		3/4		3/4		3/4	
5	1,744.03	5	1,378.23	5	1,012.52	5	647.14	5	294.77	5		5		5		5		5	
1/4	1,736.41	1/4	1,370.61	1/4	1,004.91	1/4	639.52	1/4	287.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,728.79	1/2	1,362.99	1/2	997.30	1/2	631.90	1/2	281.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,721.17	3/4	1,355.37	3/4	989.69	3/4	624.28	3/4	274.29	3/4		3/4		3/4		3/4		3/4	
6	1,713.55	6	1,347.75	6	982.09	6	616.66	6	267.49	6		6		6		6		6	
1/4	1,705.93	1/4	1,340.13	1/4	974.48	1/4	609.04	1/4	260.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,698.31	1/2	1,332.51	1/2	966.87	1/2	601.41	1/2	253.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,690.68	3/4	1,324.89	3/4	959.27	3/4	593.79	3/4	247.27	3/4		3/4		3/4		3/4		3/4	
7	1,683.06	7	1,317.27	7	951.66	7	586.17	7	240.56	7		7		7		7		7	
1/4	1,675.44	1/4	1,309.64	1/4	944.05	1/4	578.55	1/4	233.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,667.82	1/2	1,302.02	1/2	936.45	1/2	570.95	1/2	227.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,660.20	3/4	1,294.40	3/4	928.84	3/4	563.34	3/4	220.60	3/4		3/4		3/4		3/4		3/4	
8	1,652.58	8	1,286.78	8	921.23	8	555.73	8	213.98	8		8		8		8		8	
1/4	1,644.96	1/4	1,279.16	1/4	913.62	1/4	548.13	1/4	207.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,637.34	1/2	1,271.54	1/2	906.02	1/2	540.56	1/2	200.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,629.72	3/4	1,263.92	3/4	898.41	3/4	533.00	3/4	194.28	3/4		3/4		3/4		3/4		3/4	
9	1,622.10	9	1,256.30	9	890.80	9	525.44	9	187.74	9		9		9		9		9	
1/4	1,614.48	1/4	1,248.68	1/4	883.20	1/4	517.88	1/4	181.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,606.86	1/2	1,241.06	1/2	875.59	1/2	510.39	1/2	174.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,599.23	3/4	1,233.44	3/4	867.98	3/4	502.90	3/4	168.30	3/4		3/4		3/4		3/4		3/4	
10	1,591.61	10	1,225.82	10	860.38	10	495.41	10	161.85	10		10		10		10		10	
1/4	1,583.99	1/4	1,218.19	1/4	852.77	1/4	487.92	1/4	155.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,576.37	1/2	1,210.57	1/2	845.16	1/2	480.52	1/2	149.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,568.75	3/4	1,202.95	3/4	837.56	3/4	473.12	3/4	142.67	3/4		3/4		3/4		3/4		3/4	
11	1,561.13	11	1,195.33	11	829.95	11	465.71	11	136.31	11		11		11		11		11	
1/4	1,553.51	1/4	1,187.71	1/4	822.34	1/4	458.31	1/4	129.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,545.89	1/2	1,180.09	1/2	814.74	1/2	450.99	1/2	123.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,538.27	3/4	1,172.47	3/4	807.13	3/4	443.67	3/4	117.39	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 SW
CALCULATED: 06/04/2014 CL
PRINTED: 06/06/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2014

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



BARGE "CTCo 328"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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		0	4,534.42	0	4,216.90	0	3,879.47	0	3,535.57	0	3,191.67	0	2,847.77	0	2,503.67	0	2,159.58		
1/4	1/4	1/4	1/4	1/4	4,528.03	1/4	4,210.07	1/4	3,872.31	1/4	3,528.41	1/4	3,184.51	1/4	2,840.60	1/4	2,496.51	1/4	2,152.41		
1/2	1/2	1/2	1/2	1/2	4,521.63	1/2	4,203.25	1/2	3,865.14	1/2	3,521.24	1/2	3,177.34	1/2	2,833.43	1/2	2,489.34	1/2	2,145.24		
3/4	3/4	3/4	3/4	3/4	4,829.62	3/4	4,515.24	3/4	4,196.42	3/4	3,857.98	3/4	3,514.08	3/4	3,170.18	3/4	2,826.27	3/4	2,482.17	3/4	2,138.07
1	1	1	1	1	4,823.59	1	4,508.81	1	4,189.54	1	3,850.81	1	3,506.91	1	3,163.01	1	2,819.10	1	2,475.00	1	2,130.90
1/4	1/4	1/4	1/4	1/4	4,817.55	1/4	4,502.39	1/4	4,182.66	1/4	3,843.65	1/4	3,499.75	1/4	3,155.85	1/4	2,811.93	1/4	2,467.83	1/4	2,123.73
1/2	1/2	1/2	1/2	1/2	4,811.52	1/2	4,495.96	1/2	4,175.78	1/2	3,836.48	1/2	3,492.58	1/2	3,148.68	1/2	2,804.76	1/2	2,460.66	1/2	2,116.57
3/4	3/4	3/4	3/4	3/4	4,805.49	3/4	4,489.54	3/4	4,168.90	3/4	3,829.32	3/4	3,485.42	3/4	3,141.52	3/4	2,797.59	3/4	2,453.49	3/4	2,109.40
2	2	2	2	2	4,798.56	2	4,483.05	2	4,161.99	2	3,822.15	2	3,478.25	2	3,134.35	2	2,790.42	2	2,446.33	2	2,102.23
1/4	1/4	1/4	1/4	1/4	4,791.63	1/4	4,476.56	1/4	4,155.07	1/4	3,814.99	1/4	3,471.09	1/4	3,127.19	1/4	2,783.25	1/4	2,439.16	1/4	2,095.06
1/2	1/2	1/2	1/2	1/2	4,784.70	1/2	4,470.07	1/2	4,148.16	1/2	3,807.83	1/2	3,463.92	1/2	3,120.02	1/2	2,776.09	1/2	2,431.99	1/2	2,087.89
3/4	3/4	3/4	3/4	3/4	4,777.77	3/4	4,463.59	3/4	4,141.24	3/4	3,800.66	3/4	3,456.76	3/4	3,112.86	3/4	2,768.92	3/4	2,424.82	3/4	2,080.72
3	3	3	3	3	4,770.66	3	4,457.06	3	4,134.30	3	3,793.50	3	3,449.60	3	3,105.69	3	2,761.75	3	2,417.65	3	2,073.55
1/4	1/4	1/4	1/4	1/4	4,763.55	1/4	4,450.53	1/4	4,127.35	1/4	3,786.33	1/4	3,442.43	1/4	3,098.53	1/4	2,754.58	1/4	2,410.48	1/4	2,066.38
1/2	1/2	1/2	1/2	1/2	4,756.45	1/2	4,444.00	1/2	4,120.40	1/2	3,779.17	1/2	3,435.27	1/2	3,091.37	1/2	2,747.41	1/2	2,403.31	1/2	2,059.22
3/4	3/4	3/4	3/4	3/4	4,749.34	3/4	4,437.47	3/4	4,113.46	3/4	3,772.00	3/4	3,428.10	3/4	3,084.20	3/4	2,740.24	3/4	2,396.14	3/4	2,052.05
4	4	4	4	4	4,742.23	4	4,430.90	4	4,106.48	4	3,764.84	4	3,420.94	4	3,077.04	4	2,733.07	4	2,388.98	4	2,044.88
1/4	1/4	1/4	1/4	1/4	4,735.12	1/4	4,424.34	1/4	4,099.50	1/4	3,757.67	1/4	3,413.77	1/4	3,069.87	1/4	2,725.90	1/4	2,381.81	1/4	2,037.71
1/2	1/2	1/2	1/2	1/2	4,728.02	1/2	4,417.77	1/2	4,092.52	1/2	3,750.51	1/2	3,406.61	1/2	3,062.71	1/2	2,718.74	1/2	2,374.64	1/2	2,030.54
3/4	3/4	3/4	3/4	3/4	4,720.91	3/4	4,411.20	3/4	4,085.54	3/4	3,743.34	3/4	3,399.44	3/4	3,055.54	3/4	2,711.57	3/4	2,367.47	3/4	2,023.37
5	5	5	5	5	4,713.80	5	4,404.60	5	4,078.53	5	3,736.18	5	3,392.28	5	3,048.38	5	2,704.40	5	2,360.30	5	2,016.20
1/4	1/4	1/4	1/4	1/4	4,706.70	1/4	4,398.00	1/4	4,071.52	1/4	3,729.02	1/4	3,385.11	1/4	3,041.21	1/4	2,697.23	1/4	2,353.13	1/4	2,009.03
1/2	1/2	1/2	1/2	1/2	4,699.59	1/2	4,391.40	1/2	4,064.51	1/2	3,721.85	1/2	3,377.95	1/2	3,034.05	1/2	2,690.06	1/2	2,345.96	1/2	2,001.87
3/4	3/4	3/4	3/4	3/4	4,692.48	3/4	4,384.80	3/4	4,057.50	3/4	3,714.69	3/4	3,370.79	3/4	3,026.88	3/4	2,682.89	3/4	2,338.79	3/4	1,994.70
6	6	6	6	6	4,686.05	6	4,378.17	6	4,050.45	6	3,707.52	6	3,363.62	6	3,019.72	6	2,675.72	6	2,331.63	6	1,987.53
1/4	1/4	1/4	1/4	1/4	4,679.62	1/4	4,371.54	1/4	4,043.40	1/4	3,700.36	1/4	3,356.46	1/4	3,012.56	1/4	2,668.55	1/4	2,324.46	1/4	1,980.36
1/2	1/2	1/2	1/2	1/2	4,673.18	1/2	4,364.91	1/2	4,036.36	1/2	3,693.19	1/2	3,349.29	1/2	3,005.39	1/2	2,661.39	1/2	2,317.29	1/2	1,973.19
3/4	3/4	3/4	3/4	3/4	4,666.75	3/4	4,358.27	3/4	4,029.31	3/4	3,686.03	3/4	3,342.13	3/4	2,998.23	3/4	2,654.22	3/4	2,310.12	3/4	1,966.02
7	7	7	7	7	4,660.52	7	4,351.61	7	4,022.23	7	3,678.86	7	3,334.96	7	2,991.06	7	2,647.05	7	2,302.95	7	1,959.36
1/4	1/4	1/4	1/4	1/4	4,654.29	1/4	4,344.95	1/4	4,015.14	1/4	3,671.70	1/4	3,327.80	1/4	2,983.90	1/4	2,639.88	1/4	2,295.78	1/4	1,952.70
1/2	1/2	1/2	1/2	1/2	4,648.05	1/2	4,338.28	1/2	4,008.06	1/2	3,664.53	1/2	3,320.63	1/2	2,976.73	1/2	2,632.71	1/2	2,288.61	1/2	1,946.04
3/4	3/4	3/4	3/4	3/4	4,641.82	3/4	4,331.62	3/4	4,000.98	3/4	3,657.37	3/4	3,313.47	3/4	2,969.57	3/4	2,625.54	3/4	2,281.45	3/4	1,939.38
8	8	8	8	8	4,635.56	8	4,324.92	8	3,993.87	8	3,650.20	8	3,306.30	8	2,962.40	8	2,618.37	8	2,274.28	8	1,932.89
1/4	1/4	1/4	1/4	1/4	4,629.30	1/4	4,318.23	1/4	3,986.75	1/4	3,643.04	1/4	3,299.14	1/4	2,955.24	1/4	2,611.21	1/4	2,267.11	1/4	1,926.40
1/2	1/2	1/2	1/2	1/2	4,623.04	1/2	4,311.53	1/2	3,979.64	1/2	3,635.88	1/2	3,291.97	1/2	2,948.07	1/2	2,604.04	1/2	2,259.94	1/2	1,919.91
3/4	3/4	3/4	3/4	3/4	4,616.78	3/4	4,304.84	3/4	3,972.53	3/4	3,628.71	3/4	3,284.81	3/4	2,940.91	3/4	2,596.87	3/4	2,252.77	3/4	1,913.42
9	9	9	9	9	4,610.48	9	4,298.11	9	3,965.38	9	3,621.55	9	3,277.65	9	2,933.74	9	2,589.70	9	2,245.60	9	1,906.45
1/4	1/4	1/4	1/4	1/4	4,604.19	1/4	4,291.38	1/4	3,958.24	1/4	3,614.38	1/4	3,270.48	1/4	2,926.58	1/4	2,582.53	1/4	2,238.43	1/4	1,899.48
1/2	1/2	1/2	1/2	1/2	4,597.89	1/2	4,284.66	1/2	3,951.09	1/2	3,607.22	1/2	3,263.32	1/2	2,919.42	1/2	2,575.36	1/2	2,231.26	1/2	1,892.50
3/4	3/4	3/4	3/4	3/4	4,591.59	3/4	4,277.93	3/4	3,943.95	3/4	3,600.05	3/4	3,256.15	3/4	2,912.25	3/4	2,568.19	3/4	2,224.10	3/4	1,885.53
10	10	10	10	10	4,585.26	10	4,271.17	10	3,936.78	10	3,592.89	10	3,248.99	10	2,905.09	10	2,561.02	10	2,216.93	10	1,878.39
1/4	1/4	1/4	1/4	1/4	4,578.93	1/4	4,264.41	1/4	3,929.62	1/4	3,585.72	1/4	3,241.82	1/4	2,897.92	1/4	2,553.86	1/4	2,209.76	1/4	1,871.26
1/2	1/2	1/2	1/2	1/2	4,572.60	1/2	4,257.65	1/2	3,922.46	1/2	3,578.56	1/2	3,234.66	1/2	2,890.76	1/2	2,546.69	1/2	2,202.59	1/2	1,864.12
3/4	3/4	3/4	3/4	3/4	4,566.27	3/4	4,250.89	3/4	3,915.29	3/4	3,571.39	3/4	3,227.49	3/4	2,883.59	3/4	2,539.52	3/4	2,195.42	3/4	1,856.99
11	11	11	11	11	4,559.91	11	4,244.10	11	3,908.13	11	3,564.23	11	3,220.33	11	2,876.43	11	2,532.35	11	2,188.25	11	1,849.86
1/4	1/4	1/4	1/4	1/4	4,553.54	1/4	4,237.31	1/4	3,900.97	1/4	3,557.06	1/4	3,213.16	1/4	2,869.26	1/4	2,525.18	1/4	2,181.08	1/4	1,842.72
1/2	1/2	1/2	1/2	1/2	4,547.18	1/2	4,230.52	1/2	3,893.80	1/2	3,549.90	1/2	3,206.00	1/2	2,862.10	1/2	2,518.01	1/2	2,173.91	1/2	1,835.59
3/4	3/4	3/4	3/4	3/4	4,540.82	3/4	4,223.73	3/4	3,886.64	3/4	3,542.74	3/4	3,198.83	3/4	2,854.93	3/4	2,510.84	3/4	2,166.75	3/4	1,828.45

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'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

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

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



BARGE "CTCo 328"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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	1,821.29	0	1,477.15	0	1,133.20	0	802.98	0	459.05	0	114.91	0		0		0		0	
1/4	1,814.13	1/4	1,469.98	1/4	1,126.24	1/4	795.88	1/4	451.88	1/4	107.74	1/4		1/4		1/4		1/4	
1/2	1,806.97	1/2	1,462.81	1/2	1,119.28	1/2	788.79	1/2	444.71	1/2	100.58	1/2		1/2		1/2		1/2	
3/4	1,799.80	3/4	1,455.64	3/4	1,112.32	3/4	781.70	3/4	437.54	3/4	93.42	3/4		3/4		3/4		3/4	
1	1,792.63	1	1,448.47	1	1,105.44	1	774.53	1	430.37	1	86.28	1		1		1		1	
1/4	1,785.46	1/4	1,441.30	1/4	1,098.55	1/4	767.36	1/4	423.20	1/4	79.14	1/4		1/4		1/4		1/4	
1/2	1,778.29	1/2	1,434.13	1/2	1,091.66	1/2	760.19	1/2	416.03	1/2	72.00	1/2		1/2		1/2		1/2	
3/4	1,771.12	3/4	1,426.96	3/4	1,084.78	3/4	753.02	3/4	408.86	3/4	64.86	3/4		3/4		3/4		3/4	
2	1,763.95	2	1,419.79	2	1,077.90	2	745.85	2	401.69	2	58.37	2		2		2		2	
1/4	1,756.78	1/4	1,412.62	1/4	1,071.02	1/4	738.68	1/4	394.52	1/4	51.88	1/4		1/4		1/4		1/4	
1/2	1,749.61	1/2	1,405.45	1/2	1,064.15	1/2	731.51	1/2	387.35	1/2	45.39	1/2		1/2		1/2		1/2	
3/4	1,742.44	3/4	1,398.28	3/4	1,057.27	3/4	724.34	3/4	380.18	3/4	38.90	3/4		3/4		3/4		3/4	
3	1,735.27	3	1,391.11	3	1,050.40	3	717.17	3	373.01	3	33.98	3		3		3		3	
1/4	1,728.10	1/4	1,383.94	1/4	1,043.52	1/4	710.00	1/4	365.84	1/4	29.05	1/4		1/4		1/4		1/4	
1/2	1,720.93	1/2	1,376.77	1/2	1,036.65	1/2	702.83	1/2	358.67	1/2	24.12	1/2		1/2		1/2		1/2	
3/4	1,713.76	3/4	1,369.60	3/4	1,029.78	3/4	695.66	3/4	351.50	3/4	19.19	3/4		3/4		3/4		3/4	
4	1,706.59	4	1,362.43	4	1,022.91	4	688.49	4	344.33	4		4		4		4		4	
1/4	1,699.42	1/4	1,355.26	1/4	1,016.04	1/4	681.32	1/4	337.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,692.25	1/2	1,348.09	1/2	1,009.18	1/2	674.15	1/2	329.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,685.08	3/4	1,340.92	3/4	1,002.31	3/4	666.98	3/4	322.82	3/4		3/4		3/4		3/4		3/4	
5	1,677.91	5	1,333.75	5	995.44	5	659.81	5	315.65	5		5		5		5		5	
1/4	1,670.74	1/4	1,326.58	1/4	988.58	1/4	652.64	1/4	308.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,663.57	1/2	1,319.41	1/2	981.71	1/2	645.47	1/2	301.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,656.40	3/4	1,312.24	3/4	974.85	3/4	638.30	3/4	294.14	3/4		3/4		3/4		3/4		3/4	
6	1,649.23	6	1,305.07	6	967.98	6	631.13	6	286.97	6		6		6		6		6	
1/4	1,642.06	1/4	1,297.90	1/4	961.11	1/4	623.96	1/4	279.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,634.89	1/2	1,290.73	1/2	954.25	1/2	616.79	1/2	272.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,627.72	3/4	1,283.56	3/4	947.38	3/4	609.62	3/4	265.46	3/4		3/4		3/4		3/4		3/4	
7	1,620.55	7	1,276.39	7	940.52	7	602.45	7	258.29	7		7		7		7		7	
1/4	1,613.38	1/4	1,269.22	1/4	933.65	1/4	595.28	1/4	251.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,606.21	1/2	1,262.05	1/2	926.79	1/2	588.11	1/2	243.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,599.04	3/4	1,254.88	3/4	919.92	3/4	580.94	3/4	236.78	3/4		3/4		3/4		3/4		3/4	
8	1,591.87	8	1,247.71	8	913.05	8	573.77	8	229.61	8		8		8		8		8	
1/4	1,584.70	1/4	1,240.54	1/4	906.19	1/4	566.60	1/4	222.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,577.53	1/2	1,233.37	1/2	899.32	1/2	559.43	1/2	215.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,570.36	3/4	1,226.20	3/4	892.46	3/4	552.26	3/4	208.10	3/4		3/4		3/4		3/4		3/4	
9	1,563.19	9	1,219.03	9	885.59	9	545.09	9	200.93	9		9		9		9		9	
1/4	1,556.02	1/4	1,211.86	1/4	878.73	1/4	537.92	1/4	193.76	1/4		1/4		1/4		1/4		1/4	
1/2	1,548.85	1/2	1,204.69	1/2	871.86	1/2	530.75	1/2	186.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,541.68	3/4	1,197.52	3/4	865.00	3/4	523.58	3/4	179.42	3/4		3/4		3/4		3/4		3/4	
10	1,534.51	10	1,190.35	10	858.13	10	516.41	10	172.25	10		10		10		10		10	
1/4	1,527.34	1/4	1,183.18	1/4	851.26	1/4	509.24	1/4	165.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,520.17	1/2	1,176.01	1/2	844.40	1/2	502.07	1/2	157.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,513.00	3/4	1,168.84	3/4	837.53	3/4	494.90	3/4	150.74	3/4		3/4		3/4		3/4		3/4	
11	1,505.83	11	1,161.67	11	830.67	11	487.73	11	143.58	11		11		11		11		11	
1/4	1,498.66	1/4	1,154.50	1/4	823.80	1/4	480.56	1/4	136.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,491.49	1/2	1,147.33	1/2	816.94	1/2	473.39	1/2	129.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,484.32	3/4	1,140.16	3/4	810.07	3/4	466.22	3/4	122.07	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 SW
CALCULATED: 06/04/2014 CL
PRINTED: 06/06/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2014

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



BARGE "CTCo 328"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-04"

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		0	4,555.93	0	4,238.74	0	3,901.57	0	3,557.57	0	3,213.58	0	2,869.59	0	2,525.41	0	2,181.23
1/4	1/4	1/4	4,549.54	1/4	4,231.91	1/4	3,894.40	1/4	3,550.41	1/4	3,206.42	1/4	2,862.42	1/4	2,518.24	1/4	2,174.06		
1/2	1/2	1/2	4,543.14	1/2	4,225.08	1/2	3,887.23	1/2	3,543.24	1/2	3,199.25	1/2	2,855.25	1/2	2,511.07	1/2	2,166.89		
3/4	3/4	3/4	4,536.74	3/4	4,218.25	3/4	3,880.07	3/4	3,536.08	3/4	3,192.08	3/4	2,848.08	3/4	2,503.90	3/4	2,159.72		
1	1	1	4,844.82	1	4,530.35	1	4,211.42	1	3,872.90	1	3,528.91	1	3,184.92	1	2,840.91	1	2,496.73	1	2,152.54
1/4	1/4	1/4	4,838.79	1/4	4,523.92	1/4	4,204.54	1/4	3,865.73	1/4	3,521.74	1/4	3,177.75	1/4	2,833.74	1/4	2,489.56	1/4	2,145.37
1/2	1/2	1/2	4,832.75	1/2	4,517.49	1/2	4,197.66	1/2	3,858.57	1/2	3,514.58	1/2	3,170.58	1/2	2,826.57	1/2	2,482.39	1/2	2,138.20
3/4	3/4	3/4	4,826.72	3/4	4,511.06	3/4	4,190.78	3/4	3,851.40	3/4	3,507.41	3/4	3,163.42	3/4	2,819.40	3/4	2,475.22	3/4	2,131.03
2	2	2	4,820.69	2	4,504.63	2	4,183.90	2	3,844.23	2	3,500.24	2	3,156.25	2	2,812.23	2	2,468.05	2	2,123.86
1/4	1/4	1/4	4,813.76	1/4	4,498.15	1/4	4,176.98	1/4	3,837.07	1/4	3,493.08	1/4	3,149.08	1/4	2,805.06	1/4	2,460.88	1/4	2,116.69
1/2	1/2	1/2	4,806.83	1/2	4,491.66	1/2	4,170.07	1/2	3,829.90	1/2	3,485.91	1/2	3,141.92	1/2	2,797.89	1/2	2,453.71	1/2	2,109.52
3/4	3/4	3/4	4,799.90	3/4	4,485.17	3/4	4,163.15	3/4	3,822.74	3/4	3,478.74	3/4	3,134.75	3/4	2,790.72	3/4	2,446.54	3/4	2,102.35
3	3	3	4,792.96	3	4,478.68	3	4,156.23	3	3,815.57	3	3,471.58	3	3,127.58	3	2,783.55	3	2,439.36	3	2,095.18
1/4	1/4	1/4	4,785.86	1/4	4,472.14	1/4	4,149.28	1/4	3,808.40	1/4	3,464.41	1/4	3,120.42	1/4	2,776.38	1/4	2,432.19	1/4	2,088.01
1/2	1/2	1/2	4,778.75	1/2	4,465.61	1/2	4,142.33	1/2	3,801.24	1/2	3,457.24	1/2	3,113.25	1/2	2,769.21	1/2	2,425.02	1/2	2,080.84
3/4	3/4	3/4	4,771.64	3/4	4,459.08	3/4	4,135.38	3/4	3,794.07	3/4	3,450.08	3/4	3,106.09	3/4	2,762.04	3/4	2,417.85	3/4	2,073.67
4	4	4	4,764.53	4	4,452.55	4	4,128.44	4	3,786.90	4	3,442.91	4	3,098.92	4	2,754.87	4	2,410.68	4	2,066.50
1/4	1/4	1/4	4,757.42	1/4	4,445.98	1/4	4,121.46	1/4	3,779.74	1/4	3,435.74	1/4	3,091.75	1/4	2,747.70	1/4	2,403.51	1/4	2,059.33
1/2	1/2	1/2	4,750.31	1/2	4,439.41	1/2	4,114.47	1/2	3,772.57	1/2	3,428.58	1/2	3,084.59	1/2	2,740.53	1/2	2,396.34	1/2	2,052.16
3/4	3/4	3/4	4,743.20	3/4	4,432.84	3/4	4,107.49	3/4	3,765.40	3/4	3,421.41	3/4	3,077.42	3/4	2,733.36	3/4	2,389.17	3/4	2,044.99
5	5	5	4,736.09	5	4,426.28	5	4,100.51	5	3,758.24	5	3,414.24	5	3,070.25	5	2,726.18	5	2,382.00	5	2,037.82
1/4	1/4	1/4	4,728.98	1/4	4,419.67	1/4	4,093.50	1/4	3,751.07	1/4	3,407.08	1/4	3,063.09	1/4	2,719.01	1/4	2,374.83	1/4	2,030.65
1/2	1/2	1/2	4,721.87	1/2	4,413.07	1/2	4,086.49	1/2	3,743.90	1/2	3,399.91	1/2	3,055.92	1/2	2,711.84	1/2	2,367.66	1/2	2,023.48
3/4	3/4	3/4	4,714.76	3/4	4,406.47	3/4	4,079.48	3/4	3,736.74	3/4	3,392.75	3/4	3,048.75	3/4	2,704.67	3/4	2,360.49	3/4	2,016.31
6	6	6	4,707.66	6	4,399.86	6	4,072.47	6	3,729.57	6	3,385.58	6	3,041.59	6	2,697.50	6	2,353.32	6	2,009.13
1/4	1/4	1/4	4,701.22	1/4	4,393.23	1/4	4,065.42	1/4	3,722.40	1/4	3,378.41	1/4	3,034.42	1/4	2,690.33	1/4	2,346.15	1/4	2,001.96
1/2	1/2	1/2	4,694.78	1/2	4,386.60	1/2	4,058.37	1/2	3,715.24	1/2	3,371.25	1/2	3,027.25	1/2	2,683.16	1/2	2,338.98	1/2	1,994.79
3/4	3/4	3/4	4,688.35	3/4	4,379.96	3/4	4,051.32	3/4	3,708.07	3/4	3,364.08	3/4	3,020.09	3/4	2,675.99	3/4	2,331.81	3/4	1,987.62
7	7	7	4,681.91	7	4,373.33	7	4,044.27	7	3,700.90	7	3,356.91	7	3,012.92	7	2,668.82	7	2,324.64	7	1,980.45
1/4	1/4	1/4	4,675.68	1/4	4,366.66	1/4	4,037.18	1/4	3,693.74	1/4	3,349.75	1/4	3,005.75	1/4	2,661.65	1/4	2,317.47	1/4	1,973.79
1/2	1/2	1/2	4,669.45	1/2	4,360.00	1/2	4,030.10	1/2	3,686.57	1/2	3,342.58	1/2	2,998.59	1/2	2,654.48	1/2	2,310.30	1/2	1,967.13
3/4	3/4	3/4	4,663.21	3/4	4,353.33	3/4	4,023.01	3/4	3,679.41	3/4	3,335.41	3/4	2,991.42	3/4	2,647.31	3/4	2,303.13	3/4	1,960.47
8	8	8	4,656.98	8	4,346.66	8	4,015.93	8	3,672.24	8	3,328.25	8	2,984.25	8	2,640.14	8	2,295.95	8	1,953.80
1/4	1/4	1/4	4,650.71	1/4	4,339.97	1/4	4,008.82	1/4	3,665.07	1/4	3,321.08	1/4	2,977.09	1/4	2,632.97	1/4	2,288.78	1/4	1,947.31
1/2	1/2	1/2	4,644.45	1/2	4,333.27	1/2	4,001.70	1/2	3,657.91	1/2	3,313.91	1/2	2,969.92	1/2	2,625.80	1/2	2,281.61	1/2	1,940.82
3/4	3/4	3/4	4,638.19	3/4	4,326.57	3/4	3,994.59	3/4	3,650.74	3/4	3,306.75	3/4	2,962.76	3/4	2,618.63	3/4	2,274.44	3/4	1,934.33
9	9	9	4,631.93	9	4,319.87	9	3,987.47	9	3,643.57	9	3,299.58	9	2,955.59	9	2,611.46	9	2,267.27	9	1,927.84
1/4	1/4	1/4	4,625.63	1/4	4,313.14	1/4	3,980.32	1/4	3,636.41	1/4	3,292.41	1/4	2,948.42	1/4	2,604.29	1/4	2,260.10	1/4	1,920.86
1/2	1/2	1/2	4,619.33	1/2	4,306.42	1/2	3,973.18	1/2	3,629.24	1/2	3,285.25	1/2	2,941.26	1/2	2,597.12	1/2	2,252.93	1/2	1,913.88
3/4	3/4	3/4	4,613.03	3/4	4,299.69	3/4	3,966.03	3/4	3,622.07	3/4	3,278.08	3/4	2,934.09	3/4	2,589.95	3/4	2,245.76	3/4	1,906.91
10	10	10	4,606.73	10	4,292.96	10	3,958.88	10	3,614.91	10	3,270.91	10	2,926.92	10	2,582.77	10	2,238.59	10	1,899.93
1/4	1/4	1/4	4,600.39	1/4	4,286.20	1/4	3,951.72	1/4	3,607.74	1/4	3,263.75	1/4	2,919.76	1/4	2,575.60	1/4	2,231.42	1/4	1,892.80
1/2	1/2	1/2	4,594.06	1/2	4,279.44	1/2	3,944.56	1/2	3,600.57	1/2	3,256.58	1/2	2,912.59	1/2	2,568.43	1/2	2,224.25	1/2	1,885.66
3/4	3/4	3/4	4,587.73	3/4	4,272.67	3/4	3,937.40	3/4	3,593.41	3/4	3,249.42	3/4	2,905.42	3/4	2,561.26	3/4	2,217.08	3/4	1,878.52
11	11	11	4,581.39	11	4,265.91	11	3,930.23	11	3,586.24	11	3,242.25	11	2,898.26	11	2,554.09	11	2,209.91	11	1,871.39
1/4	1/4	1/4	4,575.03	1/4	4,259.12	1/4	3,923.07	1/4	3,579.07	1/4	3,235.08	1/4	2,891.09	1/4	2,546.92	1/4	2,202.74	1/4	1,864.25
1/2	1/2	1/2	4,568.66	1/2	4,252.33	1/2	3,915.90	1/2	3,571.91	1/2	3,227.92	1/2	2,883.92	1/2	2,539.75	1/2	2,195.57	1/2	1,857.11
3/4	3/4	3/4	4,562.30	3/4	4,245.53	3/4	3,908.73	3/4	3,564.74	3/4	3,220.75	3/4	2,876.76	3/4	2,532.58	3/4	2,188.40	3/4	1,849.98

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'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

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

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



BARGE "CTCo 328"

2 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-04"

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	1,842.84	0	1,498.62	0	1,154.37	0	810.56	0	466.33	0	122.09	0		0		0		0	
1/4	1,835.68	1/4	1,491.45	1/4	1,147.20	1/4	803.39	1/4	459.16	1/4	114.93	1/4		1/4		1/4		1/4	
1/2	1,828.51	1/2	1,484.28	1/2	1,140.03	1/2	796.23	1/2	451.99	1/2	107.77	1/2		1/2		1/2		1/2	
3/4	1,821.35	3/4	1,477.11	3/4	1,132.85	3/4	789.06	3/4	444.82	3/4	100.60	3/4		3/4		3/4		3/4	
1	1,814.18	1	1,469.93	1	1,125.68	1	781.89	1	437.65	1	93.44	1		1		1		1	
1/4	1,807.01	1/4	1,462.76	1/4	1,118.51	1/4	774.72	1/4	430.47	1/4	86.30	1/4		1/4		1/4		1/4	
1/2	1,799.84	1/2	1,455.59	1/2	1,111.34	1/2	767.54	1/2	423.30	1/2	79.15	1/2		1/2		1/2		1/2	
3/4	1,792.67	3/4	1,448.42	3/4	1,104.17	3/4	760.37	3/4	416.13	3/4	72.01	3/4		3/4		3/4		3/4	
2	1,785.50	2	1,441.25	2	1,096.99	2	753.20	2	408.96	2	64.87	2		2		2		2	
1/4	1,778.33	1/4	1,434.07	1/4	1,089.83	1/4	746.03	1/4	401.79	1/4	58.38	1/4		1/4		1/4		1/4	
1/2	1,771.15	1/2	1,426.90	1/2	1,082.66	1/2	738.86	1/2	394.62	1/2	51.89	1/2		1/2		1/2		1/2	
3/4	1,763.98	3/4	1,419.73	3/4	1,075.49	3/4	731.68	3/4	387.44	3/4	45.40	3/4		3/4		3/4		3/4	
3	1,756.81	3	1,412.56	3	1,068.32	3	724.51	3	380.27	3	38.91	3		3		3		3	
1/4	1,749.64	1/4	1,405.39	1/4	1,061.16	1/4	717.34	1/4	373.10	1/4	33.98	1/4		1/4		1/4		1/4	
1/2	1,742.47	1/2	1,398.21	1/2	1,053.99	1/2	710.17	1/2	365.93	1/2	29.05	1/2		1/2		1/2		1/2	
3/4	1,735.29	3/4	1,391.04	3/4	1,046.82	3/4	703.00	3/4	358.76	3/4	24.12	3/4		3/4		3/4		3/4	
4	1,728.12	4	1,383.87	4	1,039.66	4	695.83	4	351.58	4	19.19	4		4		4		4	
1/4	1,720.95	1/4	1,376.70	1/4	1,032.50	1/4	688.65	1/4	344.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,713.78	1/2	1,369.53	1/2	1,025.34	1/2	681.48	1/2	337.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,706.61	3/4	1,362.36	3/4	1,018.18	3/4	674.31	3/4	330.07	3/4		3/4		3/4		3/4		3/4	
5	1,699.43	5	1,355.18	5	1,011.02	5	667.14	5	322.90	5		5		5		5		5	
1/4	1,692.26	1/4	1,348.01	1/4	1,003.86	1/4	659.97	1/4	315.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,685.09	1/2	1,340.84	1/2	996.70	1/2	652.80	1/2	308.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,677.92	3/4	1,333.67	3/4	989.54	3/4	645.62	3/4	301.38	3/4		3/4		3/4		3/4		3/4	
6	1,670.75	6	1,326.50	6	982.38	6	638.45	6	294.21	6		6		6		6		6	
1/4	1,663.57	1/4	1,319.32	1/4	975.22	1/4	631.28	1/4	287.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,656.40	1/2	1,312.15	1/2	968.06	1/2	624.11	1/2	279.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,649.23	3/4	1,304.98	3/4	960.90	3/4	616.94	3/4	272.70	3/4		3/4		3/4		3/4		3/4	
7	1,642.06	7	1,297.81	7	953.74	7	609.77	7	265.52	7		7		7		7		7	
1/4	1,634.89	1/4	1,290.64	1/4	946.58	1/4	602.59	1/4	258.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,627.72	1/2	1,283.46	1/2	939.43	1/2	595.42	1/2	251.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,620.54	3/4	1,276.29	3/4	932.27	3/4	588.25	3/4	244.01	3/4		3/4		3/4		3/4		3/4	
8	1,613.37	8	1,269.12	8	925.11	8	581.08	8	236.84	8		8		8		8		8	
1/4	1,606.20	1/4	1,261.95	1/4	917.95	1/4	573.91	1/4	229.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,599.03	1/2	1,254.78	1/2	910.79	1/2	566.74	1/2	222.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,591.86	3/4	1,247.60	3/4	903.63	3/4	559.56	3/4	215.32	3/4		3/4		3/4		3/4		3/4	
9	1,584.68	9	1,240.43	9	896.47	9	552.39	9	208.15	9		9		9		9		9	
1/4	1,577.51	1/4	1,233.26	1/4	889.31	1/4	545.22	1/4	200.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.34	1/2	1,226.09	1/2	882.15	1/2	538.05	1/2	193.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,563.17	3/4	1,218.92	3/4	874.99	3/4	530.88	3/4	186.64	3/4		3/4		3/4		3/4		3/4	
10	1,556.00	10	1,211.75	10	867.84	10	523.71	10	179.46	10		10		10		10		10	
1/4	1,548.82	1/4	1,204.57	1/4	860.68	1/4	516.53	1/4	172.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,541.65	1/2	1,197.40	1/2	853.52	1/2	509.36	1/2	165.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,534.48	3/4	1,190.23	3/4	846.36	3/4	502.19	3/4	157.95	3/4		3/4		3/4		3/4		3/4	
11	1,527.31	11	1,183.06	11	839.20	11	495.02	11	150.78	11		11		11		11		11	
1/4	1,520.14	1/4	1,175.89	1/4	832.04	1/4	487.85	1/4	143.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,512.97	1/2	1,168.71	1/2	824.88	1/2	480.68	1/2	136.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,505.79	3/4	1,161.54	3/4	817.72	3/4	473.50	3/4	129.26	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 SW
 CALCULATED: 06/04/2014 CL
 PRINTED: 06/06/2014 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 06/2014

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



BARGE "CTCo 328"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

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
			4,416.00		4,247.50		4,067.09		3,875.31		3,680.03		3,363.07		3,000.30		2,637.25		2,275.17
1/4	1/4			1/4	4,243.88	1/4	4,063.21	1/4	3,871.24	1/4	3,675.97	1/4	3,355.53	1/4	2,992.74	1/4	2,629.68	1/4	2,267.66
1/2	1/2			1/2	4,240.25	1/2	4,059.34	1/2	3,867.17	1/2	3,671.90	1/2	3,347.99	1/2	2,985.18	1/2	2,622.11	1/2	2,260.14
3/4	3/4			3/4	4,236.61	3/4	4,055.43	3/4	3,863.10	3/4	3,667.83	3/4	3,340.45	3/4	2,977.62	3/4	2,614.54	3/4	2,252.63
1	1		4,410.21	1	4,232.97	1	4,051.53	1	3,859.04	1	3,663.76	1	3,332.91	1	2,970.05	1	2,606.97	1	2,245.13
1/4	1/4			1/4	4,407.32	1/4	4,229.33	1/4	4,047.62	1/4	3,854.97	1/4	3,659.69	1/4	3,325.37	1/4	2,962.49	1/4	2,599.40
1/2	1/2			1/2	4,404.43	1/2	4,225.69	1/2	4,043.72	1/2	3,850.90	1/2	3,655.63	1/2	3,317.83	1/2	2,954.93	1/2	2,591.83
3/4	3/4			3/4	4,400.59	3/4	4,222.01	3/4	4,039.79	3/4	3,846.83	3/4	3,651.56	3/4	3,310.28	3/4	2,947.36	3/4	2,584.26
2	2		4,396.75	2	4,218.32	2	4,035.86	2	3,842.76	2	3,647.49	2	3,302.72	2	2,939.80	2	2,576.69	2	2,215.09
1/4	1/4			1/4	4,392.91	1/4	4,214.64	1/4	4,031.94	1/4	3,838.69	1/4	3,643.42	1/4	3,295.17	1/4	2,932.24	1/4	2,569.12
1/2	1/2			1/2	4,389.07	1/2	4,210.96	1/2	4,028.01	1/2	3,834.63	1/2	3,639.35	1/2	3,287.61	1/2	2,924.67	1/2	2,561.55
3/4	3/4			3/4	4,385.04	3/4	4,207.26	3/4	4,024.07	3/4	3,830.56	3/4	3,633.97	3/4	3,280.05	3/4	2,917.11	3/4	2,553.98
3	3		4,381.01	3	4,203.55	3	4,020.12	3	3,826.49	3	3,628.58	3	3,272.49	3	2,909.55	3	2,549.41	3	2,185.06
1/4	1/4			1/4	4,376.98	1/4	4,199.85	1/4	4,016.18	1/4	3,822.42	1/4	3,623.20	1/4	3,264.93	1/4	2,901.98	1/4	2,538.84
1/2	1/2			1/2	4,372.95	1/2	4,196.14	1/2	4,012.23	1/2	3,818.35	1/2	3,617.81	1/2	3,257.37	1/2	2,894.42	1/2	2,531.27
3/4	3/4			3/4	4,368.92	3/4	4,192.41	3/4	4,008.27	3/4	3,814.29	3/4	3,610.69	3/4	3,249.81	3/4	2,886.86	3/4	2,523.73
4	4		4,364.89	4	4,188.69	4	4,004.31	4	3,810.22	4	3,603.57	4	3,242.25	4	2,879.29	4	2,516.18	4	2,155.03
1/4	1/4			1/4	4,360.86	1/4	4,184.96	1/4	4,000.34	1/4	3,806.15	1/4	3,596.45	1/4	3,234.69	1/4	2,871.73	1/4	2,508.64
1/2	1/2			1/2	4,356.83	1/2	4,181.23	1/2	3,996.38	1/2	3,802.08	1/2	3,589.33	1/2	3,227.13	1/2	2,864.17	1/2	2,501.10
3/4	3/4			3/4	4,352.80	3/4	4,177.49	3/4	3,992.40	3/4	3,798.01	3/4	3,581.78	3/4	3,219.57	3/4	2,856.60	3/4	2,493.57
5	5		4,348.77	5	4,173.74	5	3,988.42	5	3,793.94	5	3,574.23	5	3,212.01	5	2,849.04	5	2,486.03	5	2,125.00
1/4	1/4			1/4	4,344.74	1/4	4,170.00	1/4	3,984.44	1/4	3,789.88	1/4	3,566.68	1/4	3,204.45	1/4	2,841.47	1/4	2,478.50
1/2	1/2			1/2	4,340.72	1/2	4,166.25	1/2	3,980.46	1/2	3,785.81	1/2	3,559.12	1/2	3,196.88	1/2	2,833.91	1/2	2,470.97
3/4	3/4			3/4	4,337.07	3/4	4,162.49	3/4	3,976.46	3/4	3,781.74	3/4	3,551.58	3/4	3,189.32	3/4	2,826.35	3/4	2,463.44
6	6		4,333.42	6	4,158.72	6	3,972.45	6	3,777.67	6	3,544.04	6	3,181.76	6	2,818.78	6	2,455.91	6	2,094.97
1/4	1/4			1/4	4,329.78	1/4	4,154.96	1/4	3,968.45	1/4	3,773.60	1/4	3,536.50	1/4	3,174.20	1/4	2,811.22	1/4	2,448.37
1/2	1/2			1/2	4,326.13	1/2	4,151.19	1/2	3,964.45	1/2	3,769.53	1/2	3,528.95	1/2	3,166.64	1/2	2,803.66	1/2	2,440.84
3/4	3/4			3/4	4,322.60	3/4	4,147.41	3/4	3,960.43	3/4	3,765.47	3/4	3,521.41	3/4	3,159.08	3/4	2,796.09	3/4	2,433.31
7	7		4,319.06	7	4,143.63	7	3,956.41	7	3,761.40	7	3,513.87	7	3,151.52	7	2,788.53	7	2,425.78	7	2,066.01
1/4	1/4			1/4	4,315.53	1/4	4,139.85	1/4	3,952.39	1/4	3,757.33	1/4	3,506.33	1/4	3,143.96	1/4	2,780.97	1/4	2,418.24
1/2	1/2			1/2	4,312.00	1/2	4,136.07	1/2	3,948.37	1/2	3,753.26	1/2	3,498.79	1/2	3,136.40	1/2	2,773.40	1/2	2,410.71
3/4	3/4			3/4	4,308.45	3/4	4,132.27	3/4	3,944.33	3/4	3,749.19	3/4	3,491.25	3/4	3,128.84	3/4	2,765.84	3/4	2,403.18
8	8		4,304.90	8	4,128.47	8	3,940.29	8	3,745.13	8	3,483.71	8	3,121.28	8	2,758.28	8	2,395.65	8	2,038.49
1/4	1/4			1/4	4,301.35	1/4	4,124.67	1/4	3,936.25	1/4	3,741.06	1/4	3,476.17	1/4	3,113.72	1/4	2,750.71	1/4	2,388.12
1/2	1/2			1/2	4,297.81	1/2	4,120.87	1/2	3,932.21	1/2	3,736.99	1/2	3,468.63	1/2	3,106.16	1/2	2,743.15	1/2	2,380.58
3/4	3/4			3/4	4,294.24	3/4	4,117.05	3/4	3,928.15	3/4	3,732.92	3/4	3,461.09	3/4	3,098.60	3/4	2,735.59	3/4	2,373.05
9	9		4,290.67	9	4,113.23	9	3,924.10	9	3,728.85	9	3,453.55	9	3,091.03	9	2,728.02	9	2,365.52	9	2,010.30
1/4	1/4			1/4	4,287.10	1/4	4,109.41	1/4	3,920.04	1/4	3,724.78	1/4	3,446.01	1/4	3,083.47	1/4	2,720.46	1/4	2,357.99
1/2	1/2			1/2	4,283.53	1/2	4,105.60	1/2	3,915.98	1/2	3,720.72	1/2	3,438.47	1/2	3,075.91	1/2	2,712.90	1/2	2,350.46
3/4	3/4			3/4	4,279.94	3/4	4,101.76	3/4	3,911.92	3/4	3,716.65	3/4	3,430.93	3/4	3,068.35	3/4	2,705.33	3/4	2,342.92
10	10		4,276.35	10	4,097.93	10	3,907.85	10	3,712.58	10	3,423.39	10	3,060.79	10	2,697.77	10	2,335.39	10	1,980.75
1/4	1/4			1/4	4,272.76	1/4	4,094.09	1/4	3,903.78	1/4	3,708.51	1/4	3,415.85	1/4	3,053.23	1/4	2,690.21	1/4	2,327.86
1/2	1/2			1/2	4,269.18	1/2	4,090.25	1/2	3,899.72	1/2	3,704.44	1/2	3,408.31	1/2	3,045.67	1/2	2,682.64	1/2	2,320.33
3/4	3/4			3/4	4,265.57	3/4	4,086.40	3/4	3,895.65	3/4	3,700.38	3/4	3,400.77	3/4	3,038.11	3/4	2,675.08	3/4	2,312.79
11	11		4,261.96	11	4,082.55	11	3,891.58	11	3,696.31	11	3,393.23	11	3,030.55	11	2,667.52	11	2,305.26	11	1,950.85
1/4	1/4			1/4	4,258.36	1/4	4,078.69	1/4	3,887.51	1/4	3,692.24	1/4	3,385.69	1/4	3,022.99	1/4	2,659.95	1/4	2,297.73
1/2	1/2			1/2	4,254.75	1/2	4,074.84	1/2	3,883.44	1/2	3,688.17	1/2	3,378.15	1/2	3,015.43	1/2	2,652.39	1/2	2,290.20
3/4	3/4			3/4	4,251.13	3/4	4,070.96	3/4	3,879.38	3/4	3,684.10	3/4	3,370.61	3/4	3,007.87	3/4	2,644.82	3/4	2,282.68

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'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 328"

3 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 15'-03 1/2"

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	1,920.82	0	1,557.40	0	1,194.25	0	841.15	0	477.61	0	113.99	0		0		0		0	
1/4	1,913.27	1/4	1,549.83	1/4	1,186.84	1/4	833.63	1/4	470.03	1/4	106.41	1/4		1/4		1/4		1/4	
1/2	1,905.72	1/2	1,542.26	1/2	1,179.42	1/2	826.11	1/2	462.46	1/2	98.84	1/2		1/2		1/2		1/2	
3/4	1,898.15	3/4	1,534.69	3/4	1,172.06	3/4	818.54	3/4	454.88	3/4	91.28	3/4		3/4		3/4		3/4	
1	1,890.58	1	1,527.11	1	1,164.70	1	810.96	1	447.31	1	83.73	1		1		1		1	
1/4	1,883.01	1/4	1,519.54	1/4	1,157.34	1/4	803.39	1/4	439.73	1/4	76.17	1/4		1/4		1/4		1/4	
1/2	1,875.43	1/2	1,511.97	1/2	1,149.97	1/2	795.81	1/2	432.16	1/2	68.61	1/2		1/2		1/2		1/2	
3/4	1,867.86	3/4	1,504.40	3/4	1,142.62	3/4	788.23	3/4	424.58	3/4	61.75	3/4		3/4		3/4		3/4	
2	1,860.29	2	1,496.82	2	1,135.27	2	780.66	2	417.01	2	54.88	2		2		2		2	
1/4	1,852.72	1/4	1,489.25	1/4	1,127.91	1/4	773.08	1/4	409.43	1/4	48.02	1/4		1/4		1/4		1/4	
1/2	1,845.15	1/2	1,481.68	1/2	1,120.56	1/2	765.50	1/2	401.86	1/2	41.15	1/2		1/2		1/2		1/2	
3/4	1,837.57	3/4	1,474.11	3/4	1,113.21	3/4	757.93	3/4	394.28	3/4	35.93	3/4		3/4		3/4		3/4	
3	1,830.00	3	1,466.54	3	1,105.86	3	750.35	3	386.71	3	30.72	3		3		3		3	
1/4	1,822.43	1/4	1,458.96	1/4	1,098.51	1/4	742.78	1/4	379.13	1/4	25.50	1/4		1/4		1/4		1/4	
1/2	1,814.86	1/2	1,451.39	1/2	1,091.16	1/2	735.20	1/2	371.56	1/2	20.28	1/2		1/2		1/2		1/2	
3/4	1,807.28	3/4	1,443.82	3/4	1,083.82	3/4	727.62	3/4	363.98	3/4		3/4		3/4		3/4		3/4	
4	1,799.71	4	1,436.25	4	1,076.47	4	720.05	4	356.41	4		4		4		4		4	
1/4	1,792.14	1/4	1,428.67	1/4	1,069.13	1/4	712.47	1/4	348.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,784.57	1/2	1,421.10	1/2	1,061.78	1/2	704.89	1/2	341.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,777.00	3/4	1,413.53	3/4	1,054.44	3/4	697.32	3/4	333.68	3/4		3/4		3/4		3/4		3/4	
5	1,769.42	5	1,405.96	5	1,047.10	5	689.74	5	326.11	5		5		5		5		5	
1/4	1,761.85	1/4	1,398.39	1/4	1,039.75	1/4	682.17	1/4	318.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.28	1/2	1,390.81	1/2	1,032.41	1/2	674.59	1/2	310.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.71	3/4	1,383.24	3/4	1,025.07	3/4	667.01	3/4	303.38	3/4		3/4		3/4		3/4		3/4	
6	1,739.14	6	1,375.67	6	1,017.73	6	659.44	6	295.81	6		6		6		6		6	
1/4	1,731.56	1/4	1,368.10	1/4	1,010.38	1/4	651.86	1/4	288.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,723.99	1/2	1,360.53	1/2	1,003.04	1/2	644.28	1/2	280.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.42	3/4	1,352.95	3/4	995.70	3/4	636.71	3/4	273.08	3/4		3/4		3/4		3/4		3/4	
7	1,708.85	7	1,345.38	7	988.35	7	629.13	7	265.51	7		7		7		7		7	
1/4	1,701.27	1/4	1,337.81	1/4	981.01	1/4	621.55	1/4	257.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,693.70	1/2	1,330.24	1/2	973.67	1/2	613.98	1/2	250.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,686.13	3/4	1,322.66	3/4	966.33	3/4	606.40	3/4	242.78	3/4		3/4		3/4		3/4		3/4	
8	1,678.56	8	1,315.09	8	958.98	8	598.83	8	235.21	8		8		8		8		8	
1/4	1,670.99	1/4	1,307.52	1/4	951.64	1/4	591.25	1/4	227.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,663.41	1/2	1,299.95	1/2	944.30	1/2	583.67	1/2	220.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,655.84	3/4	1,292.38	3/4	936.96	3/4	576.10	3/4	212.48	3/4		3/4		3/4		3/4		3/4	
9	1,648.27	9	1,284.80	9	929.61	9	568.52	9	204.90	9		9		9		9		9	
1/4	1,640.70	1/4	1,277.23	1/4	922.27	1/4	560.94	1/4	197.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,633.12	1/2	1,269.66	1/2	914.93	1/2	553.37	1/2	189.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,625.55	3/4	1,262.09	3/4	907.58	3/4	545.79	3/4	182.17	3/4		3/4		3/4		3/4		3/4	
10	1,617.98	10	1,254.51	10	900.24	10	538.22	10	174.59	10		10		10		10		10	
1/4	1,610.41	1/4	1,246.94	1/4	892.90	1/4	530.64	1/4	167.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,602.84	1/2	1,239.37	1/2	885.56	1/2	523.06	1/2	159.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,595.26	3/4	1,231.80	3/4	878.21	3/4	515.49	3/4	151.86	3/4		3/4		3/4		3/4		3/4	
11	1,587.69	11	1,224.23	11	870.87	11	507.91	11	144.29	11		11		11		11		11	
1/4	1,580.12	1/4	1,216.65	1/4	863.53	1/4	500.33	1/4	136.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,572.55	1/2	1,209.08	1/2	856.19	1/2	492.76	1/2	129.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,564.97	3/4	1,201.67	3/4	848.67	3/4	485.18	3/4	121.56	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 SW
CALCULATED: 06/04/2014 CL
PRINTED: 06/06/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCo 328"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		1/4	4,436.81	0	4,261.25	0	4,080.51	0	3,888.50	0	3,693.39	0	3,369.05	0	3,005.45	0	2,641.61	0	2,277.44		
1/4		1/4	4,433.92	1/4	4,257.61	1/4	4,076.60	1/4	3,884.44	1/4	3,689.33	1/4	3,361.49	1/4	2,997.87	1/4	2,634.02	1/4	2,269.86		
1/2		1/2	4,431.04	1/2	4,253.97	1/2	4,072.70	1/2	3,880.37	1/2	3,685.26	1/2	3,353.94	1/2	2,990.29	1/2	2,626.44	1/2	2,262.27		
3/4		3/4	4,428.15	3/4	4,250.33	3/4	4,068.80	3/4	3,876.31	3/4	3,681.20	3/4	3,346.38	3/4	2,982.71	3/4	2,618.85	3/4	2,254.68		
1		1	4,425.26	1	4,246.70	1	4,064.90	1	3,872.24	1	3,677.13	1	3,338.82	1	2,975.14	1	2,611.26	1	2,247.10		
1/4		1/4	4,421.42	1/4	4,243.02	1/4	4,060.98	1/4	3,868.18	1/4	3,673.07	1/4	3,331.25	1/4	2,967.56	1/4	2,603.68	1/4	2,239.51		
1/2		1/2	4,417.59	1/2	4,239.34	1/2	4,057.05	1/2	3,864.11	1/2	3,669.00	1/2	3,323.68	1/2	2,959.98	1/2	2,596.09	1/2	2,231.92		
3/4		3/4	4,413.75	3/4	4,235.66	3/4	4,053.13	3/4	3,860.05	3/4	3,664.94	3/4	3,316.11	3/4	2,952.40	3/4	2,588.50	3/4	2,224.34		
2		2	4,409.91	2	4,231.99	2	4,049.21	2	3,855.98	2	3,660.87	2	3,308.54	2	2,944.82	2	2,580.92	2	2,216.75		
1/4		1/4	4,405.89	1/4	4,228.29	1/4	4,045.27	1/4	3,851.92	1/4	3,655.49	1/4	3,300.96	1/4	2,937.24	1/4	2,573.33	1/4	2,209.16		
1/2		1/2	4,401.86	1/2	4,224.58	1/2	4,041.32	1/2	3,847.85	1/2	3,650.11	1/2	3,293.38	1/2	2,929.66	1/2	2,565.74	1/2	2,201.58		
3/4		3/4	4,397.83	3/4	4,220.88	3/4	4,037.38	3/4	3,843.79	3/4	3,644.72	3/4	3,285.81	3/4	2,922.08	3/4	2,558.15	3/4	2,193.99		
3		3	4,393.81	3	4,217.18	3	4,033.44	3	3,839.72	3	3,639.34	3	3,278.23	3	2,914.50	3	2,550.57	3	2,186.40		
1/4		1/4	4,389.78	1/4	4,213.46	1/4	4,029.48	1/4	3,835.66	1/4	3,632.22	1/4	3,270.65	1/4	2,906.92	1/4	2,542.98	1/4	2,178.81		
1/2		1/2	4,385.76	1/2	4,209.73	1/2	4,025.52	1/2	3,831.59	1/2	3,625.09	1/2	3,263.08	1/2	2,899.34	1/2	2,535.39	1/2	2,171.23		
3/4		3/4	4,381.73	3/4	4,206.01	3/4	4,021.56	3/4	3,827.53	3/4	3,617.97	3/4	3,255.50	3/4	2,891.76	3/4	2,527.81	3/4	2,163.64		
4		4	4,377.71	4	4,202.29	4	4,017.61	4	3,823.46	4	3,610.85	4	3,247.92	4	2,884.18	4	2,520.22	4	2,156.05		
1/4		1/4	4,373.68	1/4	4,198.55	1/4	4,013.63	1/4	3,819.40	1/4	3,603.29	1/4	3,240.35	1/4	2,876.60	1/4	2,512.63	1/4	2,148.47		
1/2		1/2	4,369.65	1/2	4,194.80	1/2	4,009.65	1/2	3,815.33	1/2	3,595.74	1/2	3,232.77	1/2	2,869.02	1/2	2,505.05	1/2	2,140.88		
3/4		3/4	4,365.63	3/4	4,191.06	3/4	4,005.67	3/4	3,811.27	3/4	3,588.18	3/4	3,225.19	3/4	2,861.44	3/4	2,497.46	3/4	2,133.29		
5		5	4,361.60	5	4,187.32	5	4,001.70	5	3,807.21	5	3,580.62	5	3,217.61	5	2,853.86	5	2,489.87	5	2,125.71		
1/4		1/4	4,357.96	1/4	4,183.56	1/4	3,997.70	1/4	3,803.14	1/4	3,573.07	1/4	3,210.04	1/4	2,846.28	1/4	2,482.29	1/4	2,118.12		
1/2		1/2	4,354.32	1/2	4,179.80	1/2	3,993.70	1/2	3,799.08	1/2	3,565.51	1/2	3,202.46	1/2	2,838.70	1/2	2,474.70	1/2	2,110.53		
3/4		3/4	4,350.67	3/4	4,176.04	3/4	3,989.70	3/4	3,795.01	3/4	3,557.95	3/4	3,194.88	3/4	2,831.12	3/4	2,467.11	3/4	2,102.95		
6		6	4,347.03	6	4,172.28	6	3,985.70	6	3,790.95	6	3,550.40	6	3,187.31	6	2,823.54	6	2,459.53	6	2,095.36		
1/4		1/4	4,343.50	1/4	4,168.50	1/4	3,981.69	1/4	3,786.88	1/4	3,542.84	1/4	3,179.73	1/4	2,815.96	1/4	2,451.94	1/4	2,088.31		
1/2		1/2	4,339.97	1/2	4,164.72	1/2	3,977.67	1/2	3,782.82	1/2	3,535.29	1/2	3,172.15	1/2	2,808.38	1/2	2,444.35	1/2	2,081.26		
3/4		3/4	4,336.45	3/4	4,160.94	3/4	3,973.65	3/4	3,778.75	3/4	3,527.73	3/4	3,164.58	3/4	2,800.80	3/4	2,436.77	3/4	2,074.21		
7		7	4,332.92	7	4,157.16	7	3,969.63	7	3,774.69	7	3,520.17	7	3,157.00	7	2,793.22	7	2,429.18	7	2,067.17		
1/4		1/4	4,329.37	1/4	4,153.37	1/4	3,965.60	1/4	3,770.62	1/4	3,512.62	1/4	3,149.42	1/4	2,785.65	1/4	2,421.59	1/4	2,060.30		
1/2		1/2	4,325.83	1/2	4,149.57	1/2	3,961.56	1/2	3,766.56	1/2	3,505.06	1/2	3,141.85	1/2	2,778.07	1/2	2,414.01	1/2	2,053.43		
3/4		3/4	4,322.28	3/4	4,145.78	3/4	3,957.52	3/4	3,762.49	3/4	3,497.50	3/4	3,134.27	3/4	2,770.49	3/4	2,406.42	3/4	2,046.56		
8		8	4,318.74	8	4,141.98	8	3,953.49	8	3,758.43	8	3,489.95	8	3,126.69	8	2,762.91	8	2,398.83	8	2,039.69		
1/4		1/4	4,315.17	1/4	4,138.17	1/4	3,949.44	1/4	3,754.36	1/4	3,482.39	1/4	3,119.11	1/4	2,755.33	1/4	2,391.25	1/4	2,032.31		
1/2		1/2	4,311.61	1/2	4,134.35	1/2	3,945.38	1/2	3,750.30	1/2	3,474.84	1/2	3,111.54	1/2	2,747.75	1/2	2,383.66	1/2	2,024.93		
3/4		3/4	4,308.04	3/4	4,130.54	3/4	3,941.33	3/4	3,746.23	3/4	3,467.28	3/4	3,103.96	3/4	2,740.17	3/4	2,376.07	3/4	2,017.55		
9		9	4,304.48	9	4,126.72	9	3,937.27	9	3,742.17	9	3,459.72	9	3,096.38	9	2,732.59	9	2,368.48	9	2,010.16		
1/4		1/4	4,300.89	1/4	4,122.89	1/4	3,933.21	1/4	3,738.10	1/4	3,452.17	1/4	3,088.81	1/4	2,725.01	1/4	2,360.90	1/4	2,002.61		
1/2		1/2	4,297.31	1/2	4,119.06	1/2	3,929.15	1/2	3,734.04	1/2	3,444.61	1/2	3,081.23	1/2	2,717.43	1/2	2,353.31	1/2	1,995.06		
3/4		3/4	4,293.72	3/4	4,115.23	3/4	3,925.08	3/4	3,729.97	3/4	3,437.05	3/4	3,073.65	3/4	2,709.85	3/4	2,345.72	3/4	1,987.51		
10		10	4,290.14	10	4,111.39	10	3,921.02	10	3,725.91	10	3,429.50	10	3,066.08	10	2,702.27	10	2,338.14	10	1,979.95		
1/4		1/4	4,286.54	1/4	4,107.54	1/4	3,916.95	1/4	3,721.84	1/4	3,421.94	1/4	3,058.50	1/4	2,694.69	1/4	2,330.55	1/4	1,972.40		
1/2		1/2	4,282.94	1/2	4,103.69	1/2	3,912.89	1/2	3,717.78	1/2	3,414.39	1/2	3,050.92	1/2	2,687.11	1/2	2,322.96	1/2	1,964.85		
3/4		3/4	4,279.33	3/4	4,099.84	3/4	3,908.83	3/4	3,713.71	3/4	3,406.83	3/4	3,043.35	3/4	2,679.53	3/4	2,315.38	3/4	1,957.29		
11		11	4,275.73	11	4,095.99	11	3,904.76	11	3,709.65	11	3,399.27	11	3,035.77	11	2,671.95	11	2,307.79	11	1,949.74		
1/4		1/4	4,272.11	1/4	4,092.12	1/4	3,900.70	1/4	3,705.59	1/4	3,391.72	1/4	3,028.19	1/4	2,664.37	1/4	2,300.20	1/4	1,942.16		
1/2		1/2	4,268.49	1/2	4,088.25	1/2	3,896.63	1/2	3,701.52	1/2	3,384.16	1/2	3,020.61	1/2	2,656.78	1/2	2,292.62	1/2	1,934.58		
3/4		3/4	4,264.87	3/4	4,084.38	3/4	3,892.57	3/4	3,697.46	3/4	3,376.61	3/4	3,013.03	3/4	2,649.19	3/4	2,285.03	3/4	1,927.00		

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'-09" OFF CENTERLINE AND 43'-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 328"

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

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	1,919.42	0	1,555.18	0	1,190.95	0	827.27	0	463.04	0	98.85	0		0		0		0	
1/4	1,911.83	1/4	1,547.59	1/4	1,183.36	1/4	819.68	1/4	455.45	1/4	91.29	1/4		1/4		1/4		1/4	
1/2	1,904.24	1/2	1,540.01	1/2	1,175.77	1/2	812.09	1/2	447.86	1/2	83.73	1/2		1/2		1/2		1/2	
3/4	1,896.65	3/4	1,532.42	3/4	1,168.18	3/4	804.50	3/4	440.28	3/4	76.18	3/4		3/4		3/4		3/4	
1	1,889.06	1	1,524.83	1	1,160.60	1	796.92	1	432.69	1	68.62	1		1		1		1	
1/4	1,881.48	1/4	1,517.24	1/4	1,153.01	1/4	789.33	1/4	425.10	1/4	61.75	1/4		1/4		1/4		1/4	
1/2	1,873.89	1/2	1,509.65	1/2	1,145.43	1/2	781.74	1/2	417.51	1/2	54.89	1/2		1/2		1/2		1/2	
3/4	1,866.30	3/4	1,502.07	3/4	1,137.85	3/4	774.15	3/4	409.92	3/4	48.02	3/4		3/4		3/4		3/4	
2	1,858.71	2	1,494.48	2	1,130.27	2	766.56	2	402.34	2	41.15	2		2		2		2	
1/4	1,851.12	1/4	1,486.89	1/4	1,122.69	1/4	758.98	1/4	394.75	1/4	35.94	1/4		1/4		1/4		1/4	
1/2	1,843.53	1/2	1,479.30	1/2	1,115.11	1/2	751.39	1/2	387.16	1/2	30.72	1/2		1/2		1/2		1/2	
3/4	1,835.95	3/4	1,471.71	3/4	1,107.53	3/4	743.80	3/4	379.57	3/4	25.50	3/4		3/4		3/4		3/4	
3	1,828.36	3	1,464.12	3	1,099.95	3	736.21	3	371.98	3	20.28	3		3		3		3	
1/4	1,820.77	1/4	1,456.54	1/4	1,092.37	1/4	728.62	1/4	364.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,813.18	1/2	1,448.95	1/2	1,084.80	1/2	721.04	1/2	356.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,805.59	3/4	1,441.36	3/4	1,077.22	3/4	713.45	3/4	349.22	3/4		3/4		3/4		3/4		3/4	
4	1,798.01	4	1,433.77	4	1,069.65	4	705.86	4	341.63	4		4		4		4		4	
1/4	1,790.42	1/4	1,426.18	1/4	1,062.07	1/4	698.27	1/4	334.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,782.83	1/2	1,418.60	1/2	1,054.50	1/2	690.68	1/2	326.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,775.24	3/4	1,411.01	3/4	1,046.93	3/4	683.10	3/4	318.87	3/4		3/4		3/4		3/4		3/4	
5	1,767.65	5	1,403.42	5	1,039.35	5	675.51	5	311.28	5		5		5		5		5	
1/4	1,760.06	1/4	1,395.83	1/4	1,031.78	1/4	667.92	1/4	303.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,752.48	1/2	1,388.24	1/2	1,024.21	1/2	660.33	1/2	296.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,744.89	3/4	1,380.65	3/4	1,016.64	3/4	652.74	3/4	288.51	3/4		3/4		3/4		3/4		3/4	
6	1,737.30	6	1,373.07	6	1,009.06	6	645.15	6	280.93	6		6		6		6		6	
1/4	1,729.71	1/4	1,365.48	1/4	1,001.49	1/4	637.57	1/4	273.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,722.12	1/2	1,357.89	1/2	993.92	1/2	629.98	1/2	265.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,714.53	3/4	1,350.30	3/4	986.34	3/4	622.39	3/4	258.16	3/4		3/4		3/4		3/4		3/4	
7	1,706.95	7	1,342.71	7	978.77	7	614.80	7	250.57	7		7		7		7		7	
1/4	1,699.36	1/4	1,335.13	1/4	971.20	1/4	607.21	1/4	242.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,691.77	1/2	1,327.54	1/2	963.62	1/2	599.63	1/2	235.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.18	3/4	1,319.95	3/4	956.05	3/4	592.04	3/4	227.81	3/4		3/4		3/4		3/4		3/4	
8	1,676.59	8	1,312.36	8	948.48	8	584.45	8	220.22	8		8		8		8		8	
1/4	1,669.01	1/4	1,304.77	1/4	940.91	1/4	576.86	1/4	212.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,661.42	1/2	1,297.18	1/2	933.33	1/2	569.27	1/2	205.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,653.83	3/4	1,289.60	3/4	925.76	3/4	561.69	3/4	197.46	3/4		3/4		3/4		3/4		3/4	
9	1,646.24	9	1,282.01	9	918.19	9	554.10	9	189.87	9		9		9		9		9	
1/4	1,638.65	1/4	1,274.42	1/4	910.61	1/4	546.51	1/4	182.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,631.06	1/2	1,266.83	1/2	903.04	1/2	538.92	1/2	174.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,623.48	3/4	1,259.24	3/4	895.47	3/4	531.33	3/4	167.10	3/4		3/4		3/4		3/4		3/4	
10	1,615.89	10	1,251.65	10	887.89	10	523.75	10	159.52	10		10		10		10		10	
1/4	1,608.30	1/4	1,244.07	1/4	880.32	1/4	516.16	1/4	151.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,600.71	1/2	1,236.48	1/2	872.75	1/2	508.57	1/2	144.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,593.12	3/4	1,228.89	3/4	865.18	3/4	500.98	3/4	136.76	3/4		3/4		3/4		3/4		3/4	
11	1,585.54	11	1,221.30	11	857.60	11	493.39	11	129.17	11		11		11		11		11	
1/4	1,577.95	1/4	1,213.71	1/4	850.02	1/4	485.80	1/4	121.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.36	1/2	1,206.13	1/2	842.44	1/2	478.22	1/2	114.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,562.77	3/4	1,198.54	3/4	834.85	3/4	470.63	3/4	106.43	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 SW
 CALCULATED: 06/04/2014 CL
 PRINTED: 06/06/2014 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 06/2014

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