



# BARGE "HTCO 3069"

ULLAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
1 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4
2 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4
3 PORT	01-1/8	- 01-1/8	02-3/8	- 02-3/8	03-1/2	- 03-1/2	04-3/4	- 04-3/4	05-7/8	- 05-7/8	07-1/8	- 07-1/8
3 STBD	01-1/8	- 01-1/8	02-3/8	- 02-3/8	03-1/2	- 03-1/2	04-3/4	- 04-3/4	05-7/8	- 05-7/8	07-1/8	- 07-1/8

(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 1 PORT IS - 00-1/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

November 6, 2019

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HTCO 3069"

## 1 PORT

### ULLAGE TABLE

### HERMETIC

#### GAUGE HEIGHT 16'-10 1/4"

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		0	4,924.81	0	4,567.73	0	4,210.66	0	3,853.59	0	3,496.52	0	3,139.45	0	2,782.37
1/4		1/4		1/4		1/4	4,917.37	1/4	4,560.29	1/4	4,203.22	1/4	3,846.15	1/4	3,489.08	1/4	3,132.01	1/4	2,774.93
1/2		1/2		1/2		1/2	4,909.93	1/2	4,552.85	1/2	4,195.78	1/2	3,838.71	1/2	3,481.64	1/2	3,124.57	1/2	2,767.49
3/4		3/4		3/4		3/4	4,902.49	3/4	4,545.42	3/4	4,188.35	3/4	3,831.27	3/4	3,474.20	3/4	3,117.13	3/4	2,760.06
1		1		1		1	4,895.05	1	4,537.98	1	4,180.91	1	3,823.83	1	3,466.76	1	3,109.69	1	2,752.62
1/4		1/4		1/4		1/4	4,887.61	1/4	4,530.56	1/4	4,173.47	1/4	3,816.39	1/4	3,459.32	1/4	3,102.25	1/4	2,745.18
1/2		1/2		1/2		1/2	4,880.17	1/2	4,523.15	1/2	4,166.03	1/2	3,808.95	1/2	3,451.88	1/2	3,094.81	1/2	2,737.74
3/4		3/4		3/4		3/4	4,872.74	3/4	4,515.73	3/4	4,158.59	3/4	3,801.52	3/4	3,444.45	3/4	3,087.37	3/4	2,730.30
2		2		2		2	4,865.30	2	4,508.32	2	4,151.15	2	3,794.08	2	3,437.01	2	3,079.93	2	2,722.86
1/4		1/4		1/4		1/4	4,857.86	1/4	4,500.86	1/4	4,143.71	1/4	3,786.64	1/4	3,429.57	1/4	3,072.49	1/4	2,715.42
1/2		1/2		1/2		1/2	4,850.42	1/2	4,493.39	1/2	4,136.27	1/2	3,779.20	1/2	3,422.13	1/2	3,065.05	1/2	2,707.98
3/4		3/4		3/4		3/4	4,842.98	3/4	4,485.93	3/4	4,128.83	3/4	3,771.76	3/4	3,414.69	3/4	3,057.62	3/4	2,700.55
3		3		3		3	4,835.54	3	4,478.47	3	4,121.39	3	3,764.32	3	3,407.25	3	3,050.18	3	2,693.11
1/4		1/4		1/4		1/4	4,828.10	1/4	4,471.03	1/4	4,113.95	1/4	3,756.88	1/4	3,399.81	1/4	3,042.74	1/4	2,685.67
1/2		1/2		1/2		1/2	4,820.66	1/2	4,463.59	1/2	4,106.51	1/2	3,749.44	1/2	3,392.37	1/2	3,035.30	1/2	2,678.23
3/4		3/4		3/4		3/4	4,813.22	3/4	4,456.15	3/4	4,099.08	3/4	3,742.01	3/4	3,384.93	3/4	3,027.86	3/4	2,670.79
4		4		4		4	4,805.78	4	4,448.71	4	4,091.64	4	3,734.57	4	3,377.49	4	3,020.42	4	2,663.35
1/4		1/4		1/4		1/4	4,798.34	1/4	4,441.27	1/4	4,084.20	1/4	3,727.13	1/4	3,370.05	1/4	3,012.98	1/4	2,655.91
1/2		1/2		1/2		1/2	4,790.90	1/2	4,433.83	1/2	4,076.76	1/2	3,719.69	1/2	3,362.61	1/2	3,005.54	1/2	2,648.47
3/4		3/4		3/4		3/4	4,783.47	3/4	4,426.39	3/4	4,069.32	3/4	3,712.25	3/4	3,355.18	3/4	2,998.11	3/4	2,641.04
5		5		5		5	4,776.03	5	4,418.95	5	4,061.88	5	3,704.81	5	3,347.74	5	2,990.67	5	2,633.60
1/4		1/4		1/4		1/4	4,768.59	1/4	4,411.51	1/4	4,054.44	1/4	3,697.37	1/4	3,340.30	1/4	2,983.23	1/4	2,626.16
1/2		1/2		1/2		1/2	4,761.15	1/2	4,404.07	1/2	4,047.00	1/2	3,689.93	1/2	3,332.86	1/2	2,975.79	1/2	2,618.72
3/4		3/4		3/4		3/4	4,753.71	3/4	4,396.64	3/4	4,039.57	3/4	3,682.49	3/4	3,325.42	3/4	2,968.35	3/4	2,611.28
6		6		6		6	4,746.27	6	4,389.20	6	4,032.13	6	3,675.05	6	3,317.98	6	2,960.91	6	2,603.84
1/4		1/4		1/4		1/4	4,738.83	1/4	4,381.76	1/4	4,024.69	1/4	3,667.61	1/4	3,310.54	1/4	2,953.47	1/4	2,596.40
1/2		1/2		1/2		1/2	4,731.39	1/2	4,374.32	1/2	4,017.25	1/2	3,660.17	1/2	3,303.10	1/2	2,946.03	1/2	2,588.96
3/4		3/4		3/4		3/4	4,723.95	3/4	4,366.88	3/4	4,009.81	3/4	3,652.74	3/4	3,295.67	3/4	2,938.59	3/4	2,581.52
7		7		7		7	4,716.51	7	4,359.44	7	4,002.37	7	3,645.30	7	3,288.23	7	2,931.15	7	2,574.08
1/4		1/4		1/4		1/4	4,709.07	1/4	4,352.00	1/4	3,994.93	1/4	3,637.86	1/4	3,280.79	1/4	2,923.71	1/4	2,566.64
1/2		1/2		1/2		1/2	4,701.63	1/2	4,344.56	1/2	3,987.49	1/2	3,630.42	1/2	3,273.35	1/2	2,916.27	1/2	2,559.20
3/4		3/4		3/4	5,038.26	3/4	4,694.20	3/4	4,337.13	3/4	3,980.05	3/4	3,622.98	3/4	3,265.91	3/4	2,908.84	3/4	2,551.77
8		8		8	5,033.74	8	4,686.76	8	4,329.69	8	3,972.61	8	3,615.54	8	3,258.47	8	2,901.40	8	2,544.33
1/4		1/4		1/4	5,028.08	1/4	4,679.32	1/4	4,322.25	1/4	3,965.17	1/4	3,608.10	1/4	3,251.03	1/4	2,893.96	1/4	2,536.89
1/2		1/2		1/2	5,022.42	1/2	4,671.88	1/2	4,314.81	1/2	3,957.73	1/2	3,600.66	1/2	3,243.58	1/2	2,886.52	1/2	2,529.45
3/4		3/4		3/4	5,016.77	3/4	4,664.44	3/4	4,307.37	3/4	3,950.30	3/4	3,593.23	3/4	3,236.14	3/4	2,879.08	3/4	2,522.01
9		9		9	5,011.11	9	4,657.00	9	4,299.93	9	3,942.86	9	3,585.79	9	3,228.70	9	2,871.64	9	2,514.57
1/4		1/4		1/4	5,004.32	1/4	4,649.56	1/4	4,292.49	1/4	3,935.42	1/4	3,578.35	1/4	3,221.26	1/4	2,864.20	1/4	2,507.13
1/2		1/2		1/2	4,997.53	1/2	4,642.12	1/2	4,285.05	1/2	3,927.98	1/2	3,570.91	1/2	3,213.83	1/2	2,856.76	1/2	2,499.69
3/4		3/4		3/4	4,990.74	3/4	4,634.69	3/4	4,277.61	3/4	3,920.54	3/4	3,563.47	3/4	3,206.39	3/4	2,849.33	3/4	2,492.26
10		10		10	4,983.95	10	4,627.25	10	4,270.17	10	3,913.10	10	3,556.03	10	3,198.96	10	2,841.89	10	2,484.82
1/4		1/4		1/4	4,976.60	1/4	4,619.81	1/4	4,262.73	1/4	3,905.66	1/4	3,548.58	1/4	3,191.52	1/4	2,834.45	1/4	2,477.38
1/2		1/2		1/2	4,969.25	1/2	4,612.37	1/2	4,255.29	1/2	3,898.22	1/2	3,541.14	1/2	3,184.08	1/2	2,827.01	1/2	2,469.94
3/4		3/4		3/4	4,961.91	3/4	4,604.93	3/4	4,247.86	3/4	3,890.79	3/4	3,533.69	3/4	3,176.64	3/4	2,819.57	3/4	2,462.50
11		11		11	4,954.56	11	4,597.49	11	4,240.42	11	3,883.35	11	3,526.24	11	3,169.20	11	2,812.13	11	2,455.06
1/4		1/4		1/4	4,947.12	1/4	4,590.05	1/4	4,232.98	1/4	3,875.91	1/4	3,518.81	1/4	3,161.76	1/4	2,804.69	1/4	2,447.62
1/2		1/2		1/2	4,939.68	1/2	4,582.61	1/2	4,225.54	1/2	3,868.47	1/2	3,511.38	1/2	3,154.32	1/2	2,797.25	1/2	2,440.18
3/4		3/4		3/4	4,932.25	3/4	4,575.17	3/4	4,218.10	3/4	3,861.03	3/4	3,503.95	3/4	3,146.89	3/4	2,789.81	3/4	2,432.74

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 WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "HTCO 3069"

## 1 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 16'-10 1/4"

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	2,425.30	0	2,068.23	0	1,711.16	0	1,354.09	0	997.01	0	639.94	0	284.19	0		0		0	
1/4	2,417.86	1/4	2,060.79	1/4	1,703.72	1/4	1,346.65	1/4	989.57	1/4	632.50	1/4	277.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,410.42	1/2	2,053.35	1/2	1,696.28	1/2	1,339.21	1/2	982.13	1/2	625.06	1/2	269.97	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,402.99	3/4	2,045.92	3/4	1,688.84	3/4	1,331.77	3/4	974.70	3/4	617.63	3/4	262.87	3/4	3/4	3/4	3/4	3/4	3/4
1	2,395.55	1	2,038.48	1	1,681.40	1	1,324.33	1	967.26	1	610.19	1	255.76	1	1	1	1	1	1
1/4	2,388.11	1/4	2,031.04	1/4	1,673.96	1/4	1,316.89	1/4	959.82	1/4	602.75	1/4	248.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,380.67	1/2	2,023.60	1/2	1,666.52	1/2	1,309.45	1/2	952.38	1/2	595.31	1/2	241.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,373.23	3/4	2,016.16	3/4	1,659.09	3/4	1,302.02	3/4	944.94	3/4	587.87	3/4	234.53	3/4	3/4	3/4	3/4	3/4	3/4
2	2,365.79	2	2,008.72	2	1,651.65	2	1,294.58	2	937.50	2	580.43	2	227.45	2	2	2	2	2	2
1/4	2,358.35	1/4	2,001.28	1/4	1,644.21	1/4	1,287.14	1/4	930.06	1/4	572.99	1/4	220.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,350.91	1/2	1,993.84	1/2	1,636.77	1/2	1,279.70	1/2	922.62	1/2	565.55	1/2	213.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,343.48	3/4	1,986.40	3/4	1,629.33	3/4	1,272.26	3/4	915.19	3/4	558.11	3/4	206.50	3/4	3/4	3/4	3/4	3/4	3/4
3	2,336.04	3	1,978.96	3	1,621.89	3	1,264.82	3	907.75	3	550.67	3	199.52	3	3	3	3	3	3
1/4	2,328.60	1/4	1,971.52	1/4	1,614.45	1/4	1,257.38	1/4	900.31	1/4	543.23	1/4	192.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,321.16	1/2	1,964.08	1/2	1,607.01	1/2	1,249.94	1/2	892.87	1/2	535.80	1/2	185.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,313.72	3/4	1,956.65	3/4	1,599.58	3/4	1,242.50	3/4	885.43	3/4	528.36	3/4	178.66	3/4	3/4	3/4	3/4	3/4	3/4
4	2,306.28	4	1,949.21	4	1,592.14	4	1,235.06	4	877.99	4	520.92	4	171.71	4	4	4	4	4	4
1/4	2,298.84	1/4	1,941.77	1/4	1,584.70	1/4	1,227.62	1/4	870.55	1/4	513.38	1/4	165.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,291.40	1/2	1,934.33	1/2	1,577.26	1/2	1,220.18	1/2	863.11	1/2	505.84	1/2	158.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,283.96	3/4	1,926.89	3/4	1,569.82	3/4	1,212.75	3/4	855.67	3/4	498.29	3/4	151.68	3/4	3/4	3/4	3/4	3/4	3/4
5	2,276.52	5	1,919.45	5	1,562.38	5	1,205.31	5	848.23	5	490.75	5	145.00	5	5	5	5	5	5
1/4	2,269.08	1/4	1,912.01	1/4	1,554.94	1/4	1,197.87	1/4	840.79	1/4	483.17	1/4	138.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,261.64	1/2	1,904.57	1/2	1,547.50	1/2	1,190.43	1/2	833.35	1/2	475.59	1/2	131.83	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,254.21	3/4	1,897.14	3/4	1,540.06	3/4	1,182.99	3/4	825.92	3/4	468.01	3/4	125.24	3/4	3/4	3/4	3/4	3/4	3/4
6	2,246.77	6	1,889.70	6	1,532.62	6	1,175.55	6	818.48	6	460.43	6	118.66	6	6	6	6	6	6
1/4	2,239.33	1/4	1,882.26	1/4	1,525.18	1/4	1,168.11	1/4	811.04	1/4	452.95	1/4	112.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,231.89	1/2	1,874.82	1/2	1,517.74	1/2	1,160.67	1/2	803.60	1/2	445.46	1/2	105.67	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,224.45	3/4	1,867.38	3/4	1,510.31	3/4	1,153.24	3/4	796.16	3/4	437.98	3/4	99.17	3/4	3/4	3/4	3/4	3/4	3/4
7	2,217.01	7	1,859.94	7	1,502.87	7	1,145.80	7	788.72	7	430.50	7	92.68	7	7	7	7	7	7
1/4	2,209.57	1/4	1,852.50	1/4	1,495.43	1/4	1,138.36	1/4	781.28	1/4	423.05	1/4	86.21	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,202.13	1/2	1,845.06	1/2	1,487.99	1/2	1,130.92	1/2	773.84	1/2	415.59	1/2	79.75	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,194.70	3/4	1,837.62	3/4	1,480.55	3/4	1,123.48	3/4	766.41	3/4	408.14	3/4	73.28	3/4	3/4	3/4	3/4	3/4	3/4
8	2,187.26	8	1,830.18	8	1,473.11	8	1,116.04	8	758.97	8	400.69	8	66.82	8	8	8	8	8	8
1/4	2,179.82	1/4	1,822.74	1/4	1,465.67	1/4	1,108.60	1/4	751.53	1/4	393.33	1/4	60.55	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,172.38	1/2	1,815.30	1/2	1,458.23	1/2	1,101.16	1/2	744.09	1/2	385.97	1/2	54.28	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,164.94	3/4	1,807.87	3/4	1,450.80	3/4	1,093.72	3/4	736.65	3/4	378.62	3/4	48.01	3/4	3/4	3/4	3/4	3/4	3/4
9	2,157.50	9	1,800.43	9	1,443.36	9	1,086.28	9	729.21	9	371.26	9	41.75	9	9	9	9	9	9
1/4	2,150.06	1/4	1,792.99	1/4	1,435.92	1/4	1,078.84	1/4	721.77	1/4	363.93	1/4	36.82	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,142.62	1/2	1,785.55	1/2	1,428.48	1/2	1,071.40	1/2	714.33	1/2	356.60	1/2	31.89	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,135.18	3/4	1,778.11	3/4	1,421.04	3/4	1,063.97	3/4	706.89	3/4	349.27	3/4	26.96	3/4	3/4	3/4	3/4	3/4	3/4
10	2,127.74	10	1,770.67	10	1,413.60	10	1,056.53	10	699.45	10	341.94	10	22.03	10	10	10	10	10	10
1/4	2,120.30	1/4	1,763.23	1/4	1,406.16	1/4	1,049.09	1/4	692.01	1/4	334.70	1/4	18.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,112.86	1/2	1,755.79	1/2	1,398.72	1/2	1,041.65	1/2	684.57	1/2	327.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,105.43	3/4	1,748.36	3/4	1,391.28	3/4	1,034.21	3/4	677.14	3/4	320.23	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,097.99	11	1,740.92	11	1,383.84	11	1,026.77	11	669.70	11	313.00	11		11	11	11	11	11	11
1/4	2,090.55	1/4	1,733.48	1/4	1,376.40	1/4	1,019.33	1/4	662.26	1/4	305.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,083.11	1/2	1,726.04	1/2	1,368.96	1/2	1,011.89	1/2	654.82	1/2	298.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,075.67	3/4	1,718.60	3/4	1,361.53	3/4	1,004.45	3/4	647.38	3/4	291.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2009 INS  
RECALCULATED: 11/06/2019 PMA  
REPRINTED: 11/06/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

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



# BARGE "HTCO 3069"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 3/4"

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	
0		0		0		0		0		0		0		0		0		0	
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	
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	
1/4		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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
12		12		12		12		12		12		12		12		12		12	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 46'-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 "HTCO 3069"

## 1 STBD

### ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-10 3/4"

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	2,440.18	0	2,083.11	0	1,726.04	0	1,368.96	0	1,011.89	0	654.82	0	298.59	0		0		0	
1/4	2,432.74	1/4	2,075.67	1/4	1,718.60	1/4	1,361.53	1/4	1,004.45	1/4	647.38	1/4	291.39	1/4		1/4		1/4	
1/2	2,425.30	1/2	2,068.23	1/2	1,711.16	1/2	1,354.09	1/2	997.01	1/2	639.94	1/2	284.19	1/2		1/2		1/2	
3/4	2,417.86	3/4	2,060.79	3/4	1,703.72	3/4	1,346.65	3/4	989.57	3/4	632.50	3/4	277.08	3/4		3/4		3/4	
1	2,410.42	1	2,053.35	1	1,696.28	1	1,339.21	1	982.13	1	625.06	1	269.97	1		1		1	
1/4	2,402.99	1/4	2,045.92	1/4	1,688.84	1/4	1,331.77	1/4	974.70	1/4	617.63	1/4	262.87	1/4		1/4		1/4	
1/2	2,395.55	1/2	2,038.48	1/2	1,681.40	1/2	1,324.33	1/2	967.26	1/2	610.19	1/2	255.76	1/2		1/2		1/2	
3/4	2,388.11	3/4	2,031.04	3/4	1,673.96	3/4	1,316.89	3/4	959.82	3/4	602.75	3/4	248.68	3/4		3/4		3/4	
2	2,380.67	2	2,023.60	2	1,666.52	2	1,309.45	2	952.38	2	595.31	2	241.60	2		2		2	
1/4	2,373.23	1/4	2,016.16	1/4	1,659.09	1/4	1,302.02	1/4	944.94	1/4	587.87	1/4	234.53	1/4		1/4		1/4	
1/2	2,365.79	1/2	2,008.72	1/2	1,651.65	1/2	1,294.58	1/2	937.50	1/2	580.43	1/2	227.45	1/2		1/2		1/2	
3/4	2,358.35	3/4	2,001.28	3/4	1,644.21	3/4	1,287.14	3/4	930.06	3/4	572.99	3/4	220.47	3/4		3/4		3/4	
3	2,350.91	3	1,993.84	3	1,636.77	3	1,279.70	3	922.62	3	565.55	3	213.48	3		3		3	
1/4	2,343.48	1/4	1,986.40	1/4	1,629.33	1/4	1,272.26	1/4	915.19	1/4	558.11	1/4	206.50	1/4		1/4		1/4	
1/2	2,336.04	1/2	1,978.96	1/2	1,621.89	1/2	1,264.82	1/2	907.75	1/2	550.67	1/2	199.52	1/2		1/2		1/2	
3/4	2,328.60	3/4	1,971.52	3/4	1,614.45	3/4	1,257.38	3/4	900.31	3/4	543.23	3/4	192.57	3/4		3/4		3/4	
4	2,321.16	4	1,964.08	4	1,607.01	4	1,249.94	4	892.87	4	535.80	4	185.61	4		4		4	
1/4	2,313.72	1/4	1,956.65	1/4	1,599.58	1/4	1,242.50	1/4	885.43	1/4	528.36	1/4	178.66	1/4		1/4		1/4	
1/2	2,306.28	1/2	1,949.21	1/2	1,592.14	1/2	1,235.06	1/2	877.99	1/2	520.92	1/2	171.71	1/2		1/2		1/2	
3/4	2,298.84	3/4	1,941.77	3/4	1,584.70	3/4	1,227.62	3/4	870.55	3/4	513.38	3/4	165.03	3/4		3/4		3/4	
5	2,291.40	5	1,934.33	5	1,577.26	5	1,220.18	5	863.11	5	505.84	5	158.35	5		5		5	
1/4	2,283.96	1/4	1,926.89	1/4	1,569.82	1/4	1,212.75	1/4	855.67	1/4	498.29	1/4	151.68	1/4		1/4		1/4	
1/2	2,276.52	1/2	1,919.45	1/2	1,562.38	1/2	1,205.31	1/2	848.23	1/2	490.75	1/2	145.00	1/2		1/2		1/2	
3/4	2,269.08	3/4	1,912.01	3/4	1,554.94	3/4	1,197.87	3/4	840.79	3/4	483.17	3/4	138.41	3/4		3/4		3/4	
6	2,261.64	6	1,904.57	6	1,547.50	6	1,190.43	6	833.35	6	475.59	6	131.83	6		6		6	
1/4	2,254.21	1/4	1,897.14	1/4	1,540.06	1/4	1,182.99	1/4	825.92	1/4	468.01	1/4	125.24	1/4		1/4		1/4	
1/2	2,246.77	1/2	1,889.70	1/2	1,532.62	1/2	1,175.55	1/2	818.48	1/2	460.43	1/2	118.66	1/2		1/2		1/2	
3/4	2,239.33	3/4	1,882.26	3/4	1,525.18	3/4	1,168.11	3/4	811.04	3/4	452.95	3/4	112.16	3/4		3/4		3/4	
7	2,231.89	7	1,874.82	7	1,517.74	7	1,160.67	7	803.60	7	445.46	7	105.67	7		7		7	
1/4	2,224.45	1/4	1,867.38	1/4	1,510.31	1/4	1,153.24	1/4	796.16	1/4	437.98	1/4	99.17	1/4		1/4		1/4	
1/2	2,217.01	1/2	1,859.94	1/2	1,502.87	1/2	1,145.80	1/2	788.72	1/2	430.50	1/2	92.68	1/2		1/2		1/2	
3/4	2,209.57	3/4	1,852.50	3/4	1,495.43	3/4	1,138.36	3/4	781.28	3/4	423.05	3/4	86.21	3/4		3/4		3/4	
8	2,202.13	8	1,845.06	8	1,487.99	8	1,130.92	8	773.84	8	415.59	8	79.75	8		8		8	
1/4	2,194.70	1/4	1,837.62	1/4	1,480.55	1/4	1,123.48	1/4	766.41	1/4	408.14	1/4	73.28	1/4		1/4		1/4	
1/2	2,187.26	1/2	1,830.18	1/2	1,473.11	1/2	1,116.04	1/2	758.97	1/2	400.69	1/2	66.82	1/2		1/2		1/2	
3/4	2,179.82	3/4	1,822.74	3/4	1,465.67	3/4	1,108.60	3/4	751.53	3/4	393.33	3/4	60.55	3/4		3/4		3/4	
9	2,172.38	9	1,815.30	9	1,458.23	9	1,101.16	9	744.09	9	385.97	9	54.28	9		9		9	
1/4	2,164.94	1/4	1,807.87	1/4	1,450.80	1/4	1,093.72	1/4	736.65	1/4	378.62	1/4	48.01	1/4		1/4		1/4	
1/2	2,157.50	1/2	1,800.43	1/2	1,443.36	1/2	1,086.28	1/2	729.21	1/2	371.26	1/2	41.75	1/2		1/2		1/2	
3/4	2,150.06	3/4	1,792.99	3/4	1,435.92	3/4	1,078.84	3/4	721.77	3/4	363.93	3/4	36.82	3/4		3/4		3/4	
10	2,142.62	10	1,785.55	10	1,428.48	10	1,071.40	10	714.33	10	356.60	10	31.89	10		10		10	
1/4	2,135.18	1/4	1,778.11	1/4	1,421.04	1/4	1,063.97	1/4	706.89	1/4	349.27	1/4	26.96	1/4		1/4		1/4	
1/2	2,127.74	1/2	1,770.67	1/2	1,413.60	1/2	1,056.53	1/2	699.45	1/2	341.94	1/2	22.03	1/2		1/2		1/2	
3/4	2,120.30	3/4	1,763.23	3/4	1,406.16	3/4	1,049.09	3/4	692.01	3/4	334.70	3/4	18.62	3/4		3/4		3/4	
11	2,112.86	11	1,755.79	11	1,398.72	11	1,041.65	11	684.57	11	327.47	11		11		11		11	
1/4	2,105.43	1/4	1,748.36	1/4	1,391.28	1/4	1,034.21	1/4	677.14	1/4	320.23	1/4		1/4		1/4		1/4	
1/2	2,097.99	1/2	1,740.92	1/2	1,383.84	1/2	1,026.77	1/2	669.70	1/2	313.00	1/2		1/2		1/2		1/2	
3/4	2,090.55	3/4	1,733.48	3/4	1,376.40	3/4	1,019.33	3/4	662.26	3/4	305.80	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2009 INS  
RECALCULATED: 11/06/2019 PMA  
REPRINTED: 11/06/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

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



# BARGE "HTCO 3069"

## 2 PORT ULLAGE TABLE

### HERMETIC

#### GAUGE HEIGHT 16'-10 1/2"

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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,979.45	0	4,633.71	0	4,273.33	0	3,912.94	0	3,552.56	0	3,192.17	0	2,831.79
1/4		1/4		1/4		1/4	4,972.31	1/4	4,626.20	1/4	4,265.82	1/4	3,905.43	1/4	3,545.05	1/4	3,184.66	1/4	2,824.28
1/2		1/2		1/2		1/2	4,965.17	1/2	4,618.69	1/2	4,258.31	1/2	3,897.92	1/2	3,537.54	1/2	3,177.15	1/2	2,816.77
3/4		3/4		3/4		3/4	4,958.03	3/4	4,611.19	3/4	4,250.80	3/4	3,890.42	3/4	3,530.04	3/4	3,169.65	3/4	2,809.26
<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	<b>4,950.88</b>	<b>1</b>	<b>4,603.68</b>	<b>1</b>	<b>4,243.29</b>	<b>1</b>	<b>3,882.91</b>	<b>1</b>	<b>3,522.53</b>	<b>1</b>	<b>3,162.14</b>	<b>1</b>	<b>2,801.76</b>
1/4		1/4		1/4		1/4	4,943.74	1/4	4,596.17	1/4	4,235.78	1/4	3,875.40	1/4	3,515.02	1/4	3,154.63	1/4	2,794.25
1/2		1/2		1/2		1/2	4,936.60	1/2	4,588.66	1/2	4,228.27	1/2	3,867.89	1/2	3,507.51	1/2	3,147.12	1/2	2,786.74
3/4		3/4		3/4		3/4	4,929.46	3/4	4,581.16	3/4	4,220.77	3/4	3,860.39	3/4	3,500.00	3/4	3,139.62	3/4	2,779.23
<b>2</b>		<b>2</b>		<b>2</b>		<b>2</b>	<b>4,922.31</b>	<b>2</b>	<b>4,573.65</b>	<b>2</b>	<b>4,213.26</b>	<b>2</b>	<b>3,852.88</b>	<b>2</b>	<b>3,492.49</b>	<b>2</b>	<b>3,132.11</b>	<b>2</b>	<b>2,771.73</b>
1/4		1/4		1/4		1/4	4,915.17	1/4	4,566.14	1/4	4,205.75	1/4	3,845.37	1/4	3,484.98	1/4	3,124.60	1/4	2,764.22
1/2		1/2		1/2		1/2	4,908.03	1/2	4,558.63	1/2	4,198.24	1/2	3,837.86	1/2	3,477.47	1/2	3,117.09	1/2	2,756.71
3/4		3/4		3/4		3/4	4,900.89	3/4	4,551.12	3/4	4,190.74	3/4	3,830.36	3/4	3,469.97	3/4	3,109.59	3/4	2,749.20
<b>3</b>		<b>3</b>		<b>3</b>		<b>3</b>	<b>4,893.75</b>	<b>3</b>	<b>4,543.61</b>	<b>3</b>	<b>4,183.23</b>	<b>3</b>	<b>3,822.85</b>	<b>3</b>	<b>3,462.46</b>	<b>3</b>	<b>3,102.08</b>	<b>3</b>	<b>2,741.69</b>
1/4		1/4		1/4		1/4	4,886.61	1/4	4,536.10	1/4	4,175.72	1/4	3,815.34	1/4	3,454.95	1/4	3,094.57	1/4	2,734.18
1/2		1/2		1/2		1/2	4,879.47	1/2	4,528.59	1/2	4,168.21	1/2	3,807.83	1/2	3,447.44	1/2	3,087.06	1/2	2,726.67
3/4		3/4		3/4		3/4	4,872.33	3/4	4,521.09	3/4	4,160.71	3/4	3,800.32	3/4	3,439.94	3/4	3,079.55	3/4	2,719.16
<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>	<b>4,865.18</b>	<b>4</b>	<b>4,513.58</b>	<b>4</b>	<b>4,153.20</b>	<b>4</b>	<b>3,792.81</b>	<b>4</b>	<b>3,432.43</b>	<b>4</b>	<b>3,072.05</b>	<b>4</b>	<b>2,711.66</b>
1/4		1/4		1/4		1/4	4,858.04	1/4	4,506.07	1/4	4,145.69	1/4	3,785.30	1/4	3,424.92	1/4	3,064.54	1/4	2,704.15
1/2		1/2		1/2		1/2	4,850.90	1/2	4,498.56	1/2	4,138.18	1/2	3,777.79	1/2	3,417.41	1/2	3,057.03	1/2	2,696.64
3/4		3/4		3/4		3/4	4,843.76	3/4	4,491.06	3/4	4,130.68	3/4	3,770.29	3/4	3,409.91	3/4	3,049.52	3/4	2,689.13
<b>5</b>		<b>5</b>		<b>5</b>		<b>5</b>	<b>4,836.61</b>	<b>5</b>	<b>4,483.55</b>	<b>5</b>	<b>4,123.17</b>	<b>5</b>	<b>3,762.78</b>	<b>5</b>	<b>3,402.40</b>	<b>5</b>	<b>3,042.01</b>	<b>5</b>	<b>2,681.63</b>
1/4		1/4		1/4		1/4	4,829.47	1/4	4,476.04	1/4	4,115.66	1/4	3,755.27	1/4	3,394.89	1/4	3,034.50	1/4	2,674.12
1/2		1/2		1/2		1/2	4,822.33	1/2	4,468.53	1/2	4,108.15	1/2	3,747.76	1/2	3,387.38	1/2	3,026.99	1/2	2,666.61
3/4		3/4		3/4		3/4	4,815.19	3/4	4,461.03	3/4	4,100.64	3/4	3,740.26	3/4	3,379.88	3/4	3,019.48	3/4	2,659.10
<b>6</b>		<b>6</b>		<b>6</b>		<b>6</b>	<b>4,808.04</b>	<b>6</b>	<b>4,453.52</b>	<b>6</b>	<b>4,093.13</b>	<b>6</b>	<b>3,732.75</b>	<b>6</b>	<b>3,372.37</b>	<b>6</b>	<b>3,011.98</b>	<b>6</b>	<b>2,651.60</b>
1/4		1/4		1/4		1/4	4,800.90	1/4	4,446.01	1/4	4,085.62	1/4	3,725.24	1/4	3,364.86	1/4	3,004.47	1/4	2,644.09
1/2		1/2		1/2		1/2	4,793.76	1/2	4,438.50	1/2	4,078.11	1/2	3,717.73	1/2	3,357.35	1/2	2,996.96	1/2	2,636.58
3/4		3/4		3/4		3/4	4,786.62	3/4	4,431.00	3/4	4,070.61	3/4	3,710.23	3/4	3,349.84	3/4	2,989.45	3/4	2,629.07
<b>7</b>		<b>7</b>		<b>7</b>		<b>7</b>	<b>4,779.47</b>	<b>7</b>	<b>4,423.49</b>	<b>7</b>	<b>4,063.10</b>	<b>7</b>	<b>3,702.72</b>	<b>7</b>	<b>3,342.33</b>	<b>7</b>	<b>2,981.95</b>	<b>7</b>	<b>2,621.57</b>
1/4		1/4		1/4		1/4	4,772.33	1/4	4,415.98	1/4	4,055.59	1/4	3,695.21	1/4	3,334.82	1/4	2,974.44	1/4	2,614.06
1/2		1/2		1/2		1/2	4,765.19	1/2	4,408.47	1/2	4,048.08	1/2	3,687.70	1/2	3,327.31	1/2	2,966.93	1/2	2,606.55
3/4		3/4		3/4		3/4	4,758.05	3/4	4,400.96	3/4	4,040.58	3/4	3,680.20	3/4	3,319.81	3/4	2,959.42	3/4	2,599.04
<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>	<b>5,079.88</b>	<b>8</b>	<b>4,750.91</b>	<b>8</b>	<b>4,393.45</b>	<b>8</b>	<b>4,033.07</b>	<b>8</b>	<b>3,672.69</b>	<b>8</b>	<b>3,312.30</b>	<b>8</b>	<b>2,951.92</b>
1/4		1/4		1/4		1/4	5,075.62	1/4	4,743.77	1/4	4,385.94	1/4	4,025.56	1/4	3,665.18	1/4	3,304.79	1/4	2,944.41
1/2		1/2		1/2		1/2	5,070.30	1/2	4,736.63	1/2	4,378.43	1/2	4,018.05	1/2	3,657.67	1/2	3,297.28	1/2	2,936.90
3/4		3/4		3/4		3/4	5,064.97	3/4	4,729.49	3/4	4,370.93	3/4	4,010.55	3/4	3,650.16	3/4	3,289.78	3/4	2,929.39
<b>9</b>		<b>9</b>		<b>9</b>		<b>9</b>	<b>5,059.65</b>	<b>9</b>	<b>4,722.34</b>	<b>9</b>	<b>4,363.42</b>	<b>9</b>	<b>4,003.04</b>	<b>9</b>	<b>3,642.65</b>	<b>9</b>	<b>3,282.27</b>	<b>9</b>	<b>2,921.89</b>
1/4		1/4		1/4		1/4	5,054.32	1/4	4,715.20	1/4	4,355.91	1/4	3,995.53	1/4	3,635.14	1/4	3,274.76	1/4	2,914.38
1/2		1/2		1/2		1/2	5,047.97	1/2	4,707.97	1/2	4,348.40	1/2	3,988.02	1/2	3,627.63	1/2	3,267.25	1/2	2,906.87
3/4		3/4		3/4		3/4	5,041.62	3/4	4,700.73	3/4	4,340.90	3/4	3,980.52	3/4	3,620.13	3/4	3,259.75	3/4	2,899.36
<b>10</b>		<b>10</b>		<b>10</b>		<b>10</b>	<b>5,035.26</b>	<b>10</b>	<b>4,693.50</b>	<b>10</b>	<b>4,333.39</b>	<b>10</b>	<b>3,973.01</b>	<b>10</b>	<b>3,612.62</b>	<b>10</b>	<b>3,252.24</b>	<b>10</b>	<b>2,891.85</b>
1/4		1/4		1/4		1/4	5,028.91	1/4	4,686.26	1/4	4,325.88	1/4	3,965.50	1/4	3,605.11	1/4	3,244.73	1/4	2,884.34
1/2		1/2		1/2		1/2	5,021.90	1/2	4,678.75	1/2	4,318.37	1/2	3,957.99	1/2	3,597.60	1/2	3,237.22	1/2	2,876.83
3/4		3/4		3/4		3/4	5,014.90	3/4	4,671.25	3/4	4,310.87	3/4	3,950.48	3/4	3,590.10	3/4	3,229.72	3/4	2,869.32
<b>11</b>		<b>11</b>		<b>11</b>		<b>11</b>	<b>5,007.89</b>	<b>11</b>	<b>4,663.74</b>	<b>11</b>	<b>4,303.36</b>	<b>11</b>	<b>3,942.97</b>	<b>11</b>	<b>3,582.59</b>	<b>11</b>	<b>3,222.21</b>	<b>11</b>	<b>2,861.82</b>
1/4		1/4		1/4		1/4	5,000.88	1/4	4,656.23	1/4	4,295.85	1/4	3,935.46	1/4	3,575.08	1/4	3,214.70	1/4	2,854.31
1/2		1/2		1/2		1/2	4,993.74	1/2	4,648.72	1/2	4,288.34	1/2	3,927.95	1/2	3,567.57	1/2	3,207.19	1/2	2,846.80
3/4		3/4		3/4		3/4	4,986.60	3/4	4,641.22	3/4	4,280.84	3/4	3,920.45	3/4	3,560.07	3/4	3,199.68	3/4	2,839.29

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 WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 47'-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 "HTCO 3069"

## 2 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 16'-10 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	2,471.41	0	2,111.02	0	1,750.64	0	1,390.25	0	1,029.87	0	669.49	0	309.10	0		0		0	
1/4	2,463.90	1/4	2,103.51	1/4	1,743.13	1/4	1,382.74	1/4	1,022.36	1/4	661.98	1/4	301.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,456.39	1/2	2,096.00	1/2	1,735.62	1/2	1,375.23	1/2	1,014.85	1/2	654.47	1/2	294.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,448.88	3/4	2,088.49	3/4	1,728.11	3/4	1,367.72	3/4	1,007.34	3/4	646.96	3/4	286.57	3/4	3/4	3/4	3/4	3/4	3/4
1	2,441.37	1	2,080.99	1	1,720.61	1	1,360.22	1	999.84	1	639.45	1	279.07	1	1	1	1	1	1
1/4	2,433.86	1/4	2,073.48	1/4	1,713.10	1/4	1,352.71	1/4	992.33	1/4	631.94	1/4	271.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,426.35	1/2	2,065.97	1/2	1,705.59	1/2	1,345.20	1/2	984.82	1/2	624.43	1/2	264.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,418.84	3/4	2,058.46	3/4	1,698.08	3/4	1,337.69	3/4	977.31	3/4	616.92	3/4	256.54	3/4	3/4	3/4	3/4	3/4	3/4
2	2,411.34	2	2,050.96	2	1,690.57	2	1,330.19	2	969.81	2	609.42	2	249.04	2	2	2	2	2	2
1/4	2,403.83	1/4	2,043.45	1/4	1,683.06	1/4	1,322.68	1/4	962.30	1/4	601.91	1/4	241.53	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,396.32	1/2	2,035.94	1/2	1,675.55	1/2	1,315.17	1/2	954.79	1/2	594.40	1/2	234.02	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,388.81	3/4	2,028.43	3/4	1,668.04	3/4	1,307.66	3/4	947.28	3/4	586.89	3/4	226.51	3/4	3/4	3/4	3/4	3/4	3/4
3	2,381.31	3	2,020.93	3	1,660.54	3	1,300.16	3	939.77	3	579.39	3	219.01	3	3	3	3	3	3
1/4	2,373.80	1/4	2,013.42	1/4	1,653.03	1/4	1,292.65	1/4	932.26	1/4	571.88	1/4	211.50	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,366.29	1/2	2,005.91	1/2	1,645.52	1/2	1,285.14	1/2	924.75	1/2	564.37	1/2	203.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,358.78	3/4	1,998.40	3/4	1,638.01	3/4	1,277.63	3/4	917.24	3/4	556.86	3/4	196.48	3/4	3/4	3/4	3/4	3/4	3/4
4	2,351.28	4	1,990.89	4	1,630.51	4	1,270.13	4	909.74	4	549.36	4	188.97	4	4	4	4	4	4
1/4	2,343.77	1/4	1,983.38	1/4	1,623.00	1/4	1,262.62	1/4	902.23	1/4	541.85	1/4	181.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,336.26	1/2	1,975.87	1/2	1,615.49	1/2	1,255.11	1/2	894.72	1/2	534.34	1/2	174.38	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,328.75	3/4	1,968.36	3/4	1,607.98	3/4	1,247.60	3/4	887.21	3/4	526.83	3/4	167.30	3/4	3/4	3/4	3/4	3/4	3/4
5	2,321.25	5	1,960.86	5	1,600.48	5	1,240.09	5	879.71	5	519.33	5	160.23	5	5	5	5	5	5
1/4	2,313.74	1/4	1,953.35	1/4	1,592.97	1/4	1,232.58	1/4	872.20	1/4	511.82	1/4	153.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,306.23	1/2	1,945.84	1/2	1,585.46	1/2	1,225.07	1/2	864.69	1/2	504.31	1/2	146.22	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,298.72	3/4	1,938.33	3/4	1,577.95	3/4	1,217.56	3/4	857.18	3/4	496.80	3/4	139.28	3/4	3/4	3/4	3/4	3/4	3/4
6	2,291.21	6	1,930.83	6	1,570.45	6	1,210.06	6	849.68	6	489.29	6	132.35	6	6	6	6	6	6
1/4	2,283.70	1/4	1,923.32	1/4	1,562.94	1/4	1,202.55	1/4	842.17	1/4	481.78	1/4	125.42	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,276.19	1/2	1,915.81	1/2	1,555.43	1/2	1,195.04	1/2	834.66	1/2	474.27	1/2	118.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,268.68	3/4	1,908.30	3/4	1,547.92	3/4	1,187.53	3/4	827.15	3/4	466.76	3/4	111.55	3/4	3/4	3/4	3/4	3/4	3/4
7	2,261.18	7	1,900.80	7	1,540.41	7	1,180.03	7	819.65	7	459.26	7	104.61	7	7	7	7	7	7
1/4	2,253.67	1/4	1,893.29	1/4	1,532.90	1/4	1,172.52	1/4	812.14	1/4	451.75	1/4	97.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,246.16	1/2	1,885.78	1/2	1,525.39	1/2	1,165.01	1/2	804.63	1/2	444.24	1/2	90.75	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,238.65	3/4	1,878.27	3/4	1,517.88	3/4	1,157.50	3/4	797.12	3/4	436.73	3/4	83.81	3/4	3/4	3/4	3/4	3/4	3/4
8	2,231.15	8	1,870.77	8	1,510.38	8	1,150.00	8	789.61	8	429.23	8	76.88	8	8	8	8	8	8
1/4	2,223.64	1/4	1,863.26	1/4	1,502.87	1/4	1,142.49	1/4	782.10	1/4	421.72	1/4	69.95	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,216.13	1/2	1,855.75	1/2	1,495.36	1/2	1,134.98	1/2	774.59	1/2	414.21	1/2	63.14	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,208.62	3/4	1,848.24	3/4	1,487.85	3/4	1,127.47	3/4	767.08	3/4	406.70	3/4	56.33	3/4	3/4	3/4	3/4	3/4	3/4
9	2,201.12	9	1,840.73	9	1,480.35	9	1,119.97	9	759.58	9	399.20	9	49.52	9	9	9	9	9	9
1/4	2,193.61	1/4	1,833.22	1/4	1,472.84	1/4	1,112.46	1/4	752.07	1/4	391.69	1/4	42.71	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,186.10	1/2	1,825.71	1/2	1,465.33	1/2	1,104.95	1/2	744.56	1/2	384.18	1/2	37.43	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,178.59	3/4	1,818.20	3/4	1,457.82	3/4	1,097.44	3/4	737.05	3/4	376.67	3/4	32.15	3/4	3/4	3/4	3/4	3/4	3/4
10	2,171.09	10	1,810.70	10	1,450.32	10	1,089.93	10	729.55	10	369.17	10	26.87	10	10	10	10	10	10
1/4	2,163.58	1/4	1,803.19	1/4	1,442.81	1/4	1,082.42	1/4	722.04	1/4	361.66	1/4	21.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,156.07	1/2	1,795.68	1/2	1,435.30	1/2	1,074.91	1/2	714.53	1/2	354.15	1/2	18.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,148.56	3/4	1,788.17	3/4	1,427.79	3/4	1,067.40	3/4	707.02	3/4	346.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,141.05	11	1,780.67	11	1,420.29	11	1,059.90	11	699.52	11	339.13	11		11	11	11	11	11	11
1/4	2,133.54	1/4	1,773.16	1/4	1,412.78	1/4	1,052.39	1/4	692.01	1/4	331.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,126.03	1/2	1,765.65	1/2	1,405.27	1/2	1,044.88	1/2	684.50	1/2	324.11	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,118.52	3/4	1,758.14	3/4	1,397.76	3/4	1,037.37	3/4	676.99	3/4	316.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2009 INS  
RECALCULATED: 11/06/2019 PMA  
REPRINTED: 11/06/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

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



# BARGE "HTCO 3069"

## 2 STBD

### ULLAGE TABLE

### HERMETIC

#### GAUGE HEIGHT 16'-10 3/4"

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		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,986.60	0	4,641.22	0	4,280.84	0	3,920.45	0	3,560.07	0	3,199.68	0	2,839.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,979.45	1/4	4,633.71	1/4	4,273.33	1/4	3,912.94	1/4	3,552.56	1/4	3,192.17	1/4	2,831.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,972.31	1/2	4,626.20	1/2	4,265.82	1/2	3,905.43	1/2	3,545.05	1/2	3,184.66	1/2	2,824.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,965.17	3/4	4,618.69	3/4	4,258.31	3/4	3,897.92	3/4	3,537.54	3/4	3,177.15	3/4	2,816.77		
1	1	1	1	1	1	1	4,958.03	1	4,611.19	1	4,250.80	1	3,890.42	1	3,530.04	1	3,169.65	1	2,809.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,950.88	1/4	4,603.68	1/4	4,243.29	1/4	3,882.91	1/4	3,522.53	1/4	3,162.14	1/4	2,801.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,943.74	1/2	4,596.17	1/2	4,235.78	1/2	3,875.40	1/2	3,515.02	1/2	3,154.63	1/2	2,794.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,936.60	3/4	4,588.66	3/4	4,228.27	3/4	3,867.89	3/4	3,507.51	3/4	3,147.12	3/4	2,786.74		
2	2	2	2	2	2	2	4,929.46	2	4,581.16	2	4,220.77	2	3,860.39	2	3,500.00	2	3,139.62	2	2,779.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,922.31	1/4	4,573.65	1/4	4,213.26	1/4	3,852.88	1/4	3,492.49	1/4	3,132.11	1/4	2,771.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,915.17	1/2	4,566.14	1/2	4,205.75	1/2	3,845.37	1/2	3,484.98	1/2	3,124.60	1/2	2,764.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,908.03	3/4	4,558.63	3/4	4,198.24	3/4	3,837.86	3/4	3,477.47	3/4	3,117.09	3/4	2,756.71		
3	3	3	3	3	3	3	4,900.89	3	4,551.12	3	4,190.74	3	3,830.36	3	3,469.97	3	3,109.59	3	2,749.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,893.75	1/4	4,543.61	1/4	4,183.23	1/4	3,822.85	1/4	3,462.46	1/4	3,102.08	1/4	2,741.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,886.61	1/2	4,536.10	1/2	4,175.72	1/2	3,815.34	1/2	3,454.95	1/2	3,094.57	1/2	2,734.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,879.47	3/4	4,528.59	3/4	4,168.21	3/4	3,807.83	3/4	3,447.44	3/4	3,087.06	3/4	2,726.67		
4	4	4	4	4	4	4	4,872.33	4	4,521.09	4	4,160.71	4	3,800.32	4	3,439.94	4	3,079.55	4	2,719.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,865.18	1/4	4,513.58	1/4	4,153.20	1/4	3,792.81	1/4	3,432.43	1/4	3,072.05	1/4	2,711.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,858.04	1/2	4,506.07	1/2	4,145.69	1/2	3,785.30	1/2	3,424.92	1/2	3,064.54	1/2	2,704.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,850.90	3/4	4,498.56	3/4	4,138.18	3/4	3,777.79	3/4	3,417.41	3/4	3,057.03	3/4	2,696.64		
5	5	5	5	5	5	5	4,843.76	5	4,491.06	5	4,130.68	5	3,770.29	5	3,409.91	5	3,049.52	5	2,689.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,836.61	1/4	4,483.55	1/4	4,123.17	1/4	3,762.78	1/4	3,402.40	1/4	3,042.01	1/4	2,681.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,829.47	1/2	4,476.04	1/2	4,115.66	1/2	3,755.27	1/2	3,394.89	1/2	3,034.50	1/2	2,674.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,822.33	3/4	4,468.53	3/4	4,108.15	3/4	3,747.76	3/4	3,387.38	3/4	3,026.99	3/4	2,666.61		
6	6	6	6	6	6	6	4,815.19	6	4,461.03	6	4,100.64	6	3,740.26	6	3,379.88	6	3,019.48	6	2,659.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808.04	1/4	4,453.52	1/4	4,093.13	1/4	3,732.75	1/4	3,372.37	1/4	3,011.98	1/4	2,651.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.90	1/2	4,446.01	1/2	4,085.62	1/2	3,725.24	1/2	3,364.86	1/2	3,004.47	1/2	2,644.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.76	3/4	4,438.50	3/4	4,078.11	3/4	3,717.73	3/4	3,357.35	3/4	2,996.96	3/4	2,636.58		
7	7	7	7	7	7	7	4,786.62	7	4,431.00	7	4,070.61	7	3,710.23	7	3,349.84	7	2,989.45	7	2,629.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,779.47	1/4	4,423.49	1/4	4,063.10	1/4	3,702.72	1/4	3,342.33	1/4	2,981.95	1/4	2,621.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,772.33	1/2	4,415.98	1/2	4,055.59	1/2	3,695.21	1/2	3,334.82	1/2	2,974.44	1/2	2,614.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,765.19	3/4	4,408.47	3/4	4,048.08	3/4	3,687.70	3/4	3,327.31	3/4	2,966.93	3/4	2,606.55		
8	8	8	8	8	8	8	4,758.05	8	4,400.96	8	4,040.58	8	3,680.20	8	3,319.81	8	2,959.42	8	2,599.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,079.88	1/4	4,750.91	1/4	4,393.45	1/4	4,033.07	1/4	3,672.69	1/4	3,312.30	1/4	2,951.92	1/4	2,591.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,075.62	1/2	4,743.77	1/2	4,385.94	1/2	4,025.56	1/2	3,665.18	1/2	3,304.79	1/2	2,944.41	1/2	2,584.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,070.30	3/4	4,736.63	3/4	4,378.43	3/4	4,018.05	3/4	3,657.67	3/4	3,297.28	3/4	2,936.90	3/4	2,576.51
9	9	9	9	9	9	9	5,064.97	9	4,729.49	9	4,370.93	9	4,010.55	9	3,650.16	9	3,289.78	9	2,929.39	9	2,569.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,059.65	1/4	4,722.34	1/4	4,363.42	1/4	4,003.04	1/4	3,642.65	1/4	3,282.27	1/4	2,921.89	1/4	2,561.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,054.32	1/2	4,715.20	1/2	4,355.91	1/2	3,995.53	1/2	3,635.14	1/2	3,274.76	1/2	2,914.38	1/2	2,553.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,047.97	3/4	4,707.97	3/4	4,348.40	3/4	3,988.02	3/4	3,627.63	3/4	3,267.25	3/4	2,906.87	3/4	2,546.48
10	10	10	10	10	10	10	5,041.62	10	4,700.73	10	4,340.90	10	3,980.52	10	3,620.13	10	3,259.75	10	2,899.36	10	2,538.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,035.26	1/4	4,693.50	1/4	4,333.39	1/4	3,973.01	1/4	3,612.62	1/4	3,252.24	1/4	2,891.85	1/4	2,531.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,028.91	1/2	4,686.26	1/2	4,325.88	1/2	3,965.50	1/2	3,605.11	1/2	3,244.73	1/2	2,884.34	1/2	2,523.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,021.90	3/4	4,678.75	3/4	4,318.37	3/4	3,957.99	3/4	3,597.60	3/4	3,237.22	3/4	2,876.83	3/4	2,516.45
11	11	11	11	11	11	11	5,014.90	11	4,671.25	11	4,310.87	11	3,950.48	11	3,590.10	11	3,229.72	11	2,869.32	11	2,508.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,007.89	1/4	4,663.74	1/4	4,303.36	1/4	3,942.97	1/4	3,582.59	1/4	3,222.21	1/4	2,861.82	1/4	2,501.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,000.88	1/2	4,656.23	1/2	4,295.85	1/2	3,935.46	1/2	3,575.08	1/2	3,214.70	1/2	2,854.31	1/2	2,493.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,993.74	3/4	4,648.72	3/4	4,288.34	3/4	3,927.95	3/4	3,567.57	3/4	3,207.19	3/4	2,846.80	3/4	2,486.42

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 WITH "HERMETIC" DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 47'-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 "HTCO 3069"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-10 3/4"

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	2,478.91	0	2,118.52	0	1,758.14	0	1,397.76	0	1,037.37	0	676.99	0	316.60	0		0		0	
1/4	2,471.41	1/4	2,111.02	1/4	1,750.64	1/4	1,390.25	1/4	1,029.87	1/4	669.49	1/4	309.10	1/4		1/4		1/4	
1/2	2,463.90	1/2	2,103.51	1/2	1,743.13	1/2	1,382.74	1/2	1,022.36	1/2	661.98	1/2	301.59	1/2		1/2		1/2	
3/4	2,456.39	3/4	2,096.00	3/4	1,735.62	3/4	1,375.23	3/4	1,014.85	3/4	654.47	3/4	294.08	3/4		3/4		3/4	
1	2,448.88	1	2,088.49	1	1,728.11	1	1,367.72	1	1,007.34	1	646.96	1	286.57	1		1		1	
1/4	2,441.37	1/4	2,080.99	1/4	1,720.61	1/4	1,360.22	1/4	999.84	1/4	639.45	1/4	279.07	1/4		1/4		1/4	
1/2	2,433.86	1/2	2,073.48	1/2	1,713.10	1/2	1,352.71	1/2	992.33	1/2	631.94	1/2	271.56	1/2		1/2		1/2	
3/4	2,426.35	3/4	2,065.97	3/4	1,705.59	3/4	1,345.20	3/4	984.82	3/4	624.43	3/4	264.05	3/4		3/4		3/4	
2	2,418.84	2	2,058.46	2	1,698.08	2	1,337.69	2	977.31	2	616.92	2	256.54	2		2		2	
1/4	2,411.34	1/4	2,050.96	1/4	1,690.57	1/4	1,330.19	1/4	969.81	1/4	609.42	1/4	249.04	1/4		1/4		1/4	
1/2	2,403.83	1/2	2,043.45	1/2	1,683.06	1/2	1,322.68	1/2	962.30	1/2	601.91	1/2	241.53	1/2		1/2		1/2	
3/4	2,396.32	3/4	2,035.94	3/4	1,675.55	3/4	1,315.17	3/4	954.79	3/4	594.40	3/4	234.02	3/4		3/4		3/4	
3	2,388.81	3	2,028.43	3	1,668.04	3	1,307.66	3	947.28	3	586.89	3	226.51	3		3		3	
1/4	2,381.31	1/4	2,020.93	1/4	1,660.54	1/4	1,300.16	1/4	939.77	1/4	579.39	1/4	219.01	1/4		1/4		1/4	
1/2	2,373.80	1/2	2,013.42	1/2	1,653.03	1/2	1,292.65	1/2	932.26	1/2	571.88	1/2	211.50	1/2		1/2		1/2	
3/4	2,366.29	3/4	2,005.91	3/4	1,645.52	3/4	1,285.14	3/4	924.75	3/4	564.37	3/4	203.99	3/4		3/4		3/4	
4	2,358.78	4	1,998.40	4	1,638.01	4	1,277.63	4	917.24	4	556.86	4	196.48	4		4		4	
1/4	2,351.28	1/4	1,990.89	1/4	1,630.51	1/4	1,270.13	1/4	909.74	1/4	549.36	1/4	188.97	1/4		1/4		1/4	
1/2	2,343.77	1/2	1,983.38	1/2	1,623.00	1/2	1,262.62	1/2	902.23	1/2	541.85	1/2	181.46	1/2		1/2		1/2	
3/4	2,336.26	3/4	1,975.87	3/4	1,615.49	3/4	1,255.11	3/4	894.72	3/4	534.34	3/4	174.38	3/4		3/4		3/4	
5	2,328.75	5	1,968.36	5	1,607.98	5	1,247.60	5	887.21	5	526.83	5	167.30	5		5		5	
1/4	2,321.25	1/4	1,960.86	1/4	1,600.48	1/4	1,240.09	1/4	879.71	1/4	519.33	1/4	160.23	1/4		1/4		1/4	
1/2	2,313.74	1/2	1,953.35	1/2	1,592.97	1/2	1,232.58	1/2	872.20	1/2	511.82	1/2	153.15	1/2		1/2		1/2	
3/4	2,306.23	3/4	1,945.84	3/4	1,585.46	3/4	1,225.07	3/4	864.69	3/4	504.31	3/4	146.22	3/4		3/4		3/4	
6	2,298.72	6	1,938.33	6	1,577.95	6	1,217.56	6	857.18	6	496.80	6	139.28	6		6		6	
1/4	2,291.21	1/4	1,930.83	1/4	1,570.45	1/4	1,210.06	1/4	849.68	1/4	489.29	1/4	132.35	1/4		1/4		1/4	
1/2	2,283.70	1/2	1,923.32	1/2	1,562.94	1/2	1,202.55	1/2	842.17	1/2	481.78	1/2	125.42	1/2		1/2		1/2	
3/4	2,276.19	3/4	1,915.81	3/4	1,555.43	3/4	1,195.04	3/4	834.66	3/4	474.27	3/4	118.48	3/4		3/4		3/4	
7	2,268.68	7	1,908.30	7	1,547.92	7	1,187.53	7	827.15	7	466.76	7	111.55	7		7		7	
1/4	2,261.18	1/4	1,900.80	1/4	1,540.41	1/4	1,180.03	1/4	819.65	1/4	459.26	1/4	104.61	1/4		1/4		1/4	
1/2	2,253.67	1/2	1,893.29	1/2	1,532.90	1/2	1,172.52	1/2	812.14	1/2	451.75	1/2	97.68	1/2		1/2		1/2	
3/4	2,246.16	3/4	1,885.78	3/4	1,525.39	3/4	1,165.01	3/4	804.63	3/4	444.24	3/4	90.75	3/4		3/4		3/4	
8	2,238.65	8	1,878.27	8	1,517.88	8	1,157.50	8	797.12	8	436.73	8	83.81	8		8		8	
1/4	2,231.15	1/4	1,870.77	1/4	1,510.38	1/4	1,150.00	1/4	789.61	1/4	429.23	1/4	76.88	1/4		1/4		1/4	
1/2	2,223.64	1/2	1,863.26	1/2	1,502.87	1/2	1,142.49	1/2	782.10	1/2	421.72	1/2	69.95	1/2		1/2		1/2	
3/4	2,216.13	3/4	1,855.75	3/4	1,495.36	3/4	1,134.98	3/4	774.59	3/4	414.21	3/4	63.14	3/4		3/4		3/4	
9	2,208.62	9	1,848.24	9	1,487.85	9	1,127.47	9	767.08	9	406.70	9	56.33	9		9		9	
1/4	2,201.12	1/4	1,840.73	1/4	1,480.35	1/4	1,119.97	1/4	759.58	1/4	399.20	1/4	49.52	1/4		1/4		1/4	
1/2	2,193.61	1/2	1,833.22	1/2	1,472.84	1/2	1,112.46	1/2	752.07	1/2	391.69	1/2	42.71	1/2		1/2		1/2	
3/4	2,186.10	3/4	1,825.71	3/4	1,465.33	3/4	1,104.95	3/4	744.56	3/4	384.18	3/4	37.43	3/4		3/4		3/4	
10	2,178.59	10	1,818.20	10	1,457.82	10	1,097.44	10	737.05	10	376.67	10	32.15	10		10		10	
1/4	2,171.09	1/4	1,810.70	1/4	1,450.32	1/4	1,089.93	1/4	729.55	1/4	369.17	1/4	26.87	1/4		1/4		1/4	
1/2	2,163.58	1/2	1,803.19	1/2	1,442.81	1/2	1,082.42	1/2	722.04	1/2	361.66	1/2	21.59	1/2		1/2		1/2	
3/4	2,156.07	3/4	1,795.68	3/4	1,435.30	3/4	1,074.91	3/4	714.53	3/4	354.15	3/4	18.06	3/4		3/4		3/4	
11	2,148.56	11	1,788.17	11	1,427.79	11	1,067.40	11	707.02	11	346.64	11		11		11		11	
1/4	2,141.05	1/4	1,780.67	1/4	1,420.29	1/4	1,059.90	1/4	699.52	1/4	339.13	1/4		1/4		1/4		1/4	
1/2	2,133.54	1/2	1,773.16	1/2	1,412.78	1/2	1,052.39	1/2	692.01	1/2	331.62	1/2		1/2		1/2		1/2	
3/4	2,126.03	3/4	1,765.65	3/4	1,405.27	3/4	1,044.88	3/4	684.50	3/4	324.11	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2009 INS  
RECALCULATED: 11/06/2019 PMA  
REPRINTED: 11/06/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

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



# BARGE "HTCO 3069"

## 3 PORT ULLAGE TABLE

### HERMETIC

GAUGE HEIGHT 16'-10 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,933.45	0	3,825.64	0	3,717.83	0	3,610.02	0	3,495.33	0	3,173.10	0	2,815.89
1/4		1/4		1/4		1/4	3,931.20	1/4	3,823.39	1/4	3,715.58	1/4	3,607.77	1/4	3,491.73	1/4	3,165.66	1/4	2,808.45
1/2		1/2		1/2		1/2	3,928.95	1/2	3,821.14	1/2	3,713.34	1/2	3,605.53	1/2	3,487.36	1/2	3,158.22	1/2	2,801.01
3/4		3/4		3/4		3/4	3,926.71	3/4	3,818.90	3/4	3,711.09	3/4	3,603.28	3/4	3,482.98	3/4	3,150.78	3/4	2,793.57
1		1		1		1	3,924.46	1	3,816.65	1	3,708.85	1	3,601.04	1	3,478.61	1	3,143.33	1	2,786.12
1/4		1/4		1/4		1/4	3,922.21	1/4	3,814.40	1/4	3,706.60	1/4	3,598.79	1/4	3,474.23	1/4	3,135.89	1/4	2,778.68
1/2		1/2		1/2		1/2	3,919.97	1/2	3,812.16	1/2	3,704.35	1/2	3,596.54	1/2	3,469.08	1/2	3,128.45	1/2	2,771.24
3/4		3/4		3/4		3/4	3,917.72	3/4	3,809.91	3/4	3,702.11	3/4	3,594.30	3/4	3,463.93	3/4	3,121.01	3/4	2,763.80
2		2		2		2	3,915.48	2	3,798.67	2	3,699.86	2	3,592.05	2	3,458.77	2	3,113.57	2	2,756.35
1/4		1/4		1/4		1/4	3,913.23	1/4	3,805.42	1/4	3,697.61	1/4	3,589.80	1/4	3,453.62	1/4	3,106.13	1/4	2,748.91
1/2		1/2		1/2		1/2	3,910.98	1/2	3,803.18	1/2	3,695.37	1/2	3,587.56	1/2	3,447.69	1/2	3,098.69	1/2	2,741.47
3/4		3/4		3/4		3/4	3,908.74	3/4	3,800.93	3/4	3,693.12	3/4	3,585.31	3/4	3,441.77	3/4	3,091.25	3/4	2,734.03
3		3		3		3	3,906.49	3	3,798.69	3	3,699.88	3	3,592.07	3	3,435.84	3	3,083.80	3	2,726.58
1/4		1/4		1/4		1/4	3,904.24	1/4	3,796.44	1/4	3,688.63	1/4	3,580.82	1/4	3,429.91	1/4	3,076.36	1/4	2,719.14
1/2		1/2		1/2		1/2	3,902.00	1/2	3,794.19	1/2	3,686.38	1/2	3,578.58	1/2	3,423.21	1/2	3,068.92	1/2	2,711.70
3/4		3/4		3/4		3/4	3,899.75	3/4	3,791.95	3/4	3,684.14	3/4	3,576.33	3/4	3,416.51	3/4	3,061.48	3/4	2,704.26
4		4		4		4	3,897.51	4	3,789.70	4	3,681.89	4	3,574.09	4	3,409.80	4	3,054.03	4	2,696.81
1/4		1/4		1/4		1/4	3,895.26	1/4	3,787.45	1/4	3,679.64	1/4	3,571.84	1/4	3,403.10	1/4	3,046.59	1/4	2,689.37
1/2		1/2		1/2		1/2	3,893.02	1/2	3,785.21	1/2	3,677.40	1/2	3,569.59	1/2	3,395.84	1/2	3,039.15	1/2	2,681.93
3/4		3/4		3/4		3/4	3,890.77	3/4	3,782.96	3/4	3,675.15	3/4	3,567.35	3/4	3,388.57	3/4	3,031.71	3/4	2,674.49
5		5		5		5	3,888.53	5	3,780.72	5	3,672.91	5	3,565.10	5	3,381.31	5	3,024.26	5	2,667.05
1/4		1/4		1/4		1/4	3,886.28	1/4	3,778.47	1/4	3,670.66	1/4	3,562.85	1/4	3,374.04	1/4	3,016.82	1/4	2,659.61
1/2		1/2		1/2		1/2	3,884.03	1/2	3,776.22	1/2	3,668.42	1/2	3,560.61	1/2	3,366.60	1/2	3,009.38	1/2	2,652.17
3/4		3/4		3/4		3/4	3,881.79	3/4	3,773.98	3/4	3,666.17	3/4	3,558.36	3/4	3,359.16	3/4	3,001.94	3/4	2,644.73
6		6		6		6	3,879.54	6	3,771.73	6	3,663.93	6	3,556.12	6	3,351.71	6	2,994.49	6	2,637.28
1/4		1/4		1/4		1/4	3,877.29	1/4	3,769.48	1/4	3,661.68	1/4	3,553.87	1/4	3,344.27	1/4	2,987.05	1/4	2,629.84
1/2		1/2		1/2		1/2	3,875.05	1/2	3,764.76	1/2	3,659.43	1/2	3,551.62	1/2	3,336.83	1/2	2,979.61	1/2	2,622.40
3/4		3/4		3/4		3/4	3,872.80	3/4	3,760.04	3/4	3,657.19	3/4	3,549.38	3/4	3,329.39	3/4	2,972.17	3/4	2,614.96
7		7		7		7	3,870.56	7	3,755.32	7	3,654.94	7	3,547.13	7	3,321.94	7	2,964.73	7	2,607.51
1/4		1/4		1/4		1/4	3,868.31	1/4	3,750.60	1/4	3,652.69	1/4	3,544.88	1/4	3,314.50	1/4	2,957.29	1/4	2,600.07
1/2		1/2		1/2		1/2	3,866.06	1/2	3,750.83	1/2	3,650.45	1/2	3,542.64	1/2	3,307.06	1/2	2,949.85	1/2	2,592.63
3/4		3/4		3/4		3/4	3,863.82	3/4	3,751.06	3/4	3,648.20	3/4	3,540.39	3/4	3,299.62	3/4	2,942.41	3/4	2,585.19
8		8		8	3,964.96	8	3,861.57	8	3,751.29	8	3,645.96	8	3,538.15	8	3,292.17	8	2,934.96	8	2,577.74
1/4		1/4		1/4	3,963.63	1/4	3,859.32	1/4	3,751.52	1/4	3,643.71	1/4	3,535.90	1/4	3,284.73	1/4	2,927.52	1/4	2,570.30
1/2		1/2		1/2	3,961.97	1/2	3,857.08	1/2	3,749.27	1/2	3,641.46	1/2	3,533.66	1/2	3,277.29	1/2	2,920.08	1/2	2,562.86
3/4		3/4		3/4	3,960.31	3/4	3,854.83	3/4	3,747.03	3/4	3,639.22	3/4	3,531.41	3/4	3,269.85	3/4	2,912.64	3/4	2,555.42
9		9		9	3,958.64	9	3,852.59	9	3,744.78	9	3,636.97	9	3,529.17	9	3,262.41	9	2,905.19	9	2,547.97
1/4		1/4		1/4	3,956.98	1/4	3,850.34	1/4	3,742.53	1/4	3,634.72	1/4	3,526.92	1/4	3,254.97	1/4	2,897.75	1/4	2,540.53
1/2		1/2		1/2	3,954.99	1/2	3,848.10	1/2	3,740.29	1/2	3,632.48	1/2	3,524.60	1/2	3,247.53	1/2	2,890.31	1/2	2,533.09
3/4		3/4		3/4	3,952.99	3/4	3,845.85	3/4	3,738.04	3/4	3,630.23	3/4	3,522.28	3/4	3,240.09	3/4	2,882.87	3/4	2,525.65
10		10		10	3,951.00	10	3,843.61	10	3,735.80	10	3,627.99	10	3,519.96	10	3,232.64	10	2,875.42	10	2,518.21
1/4		1/4		1/4	3,949.00	1/4	3,841.36	1/4	3,733.55	1/4	3,625.74	1/4	3,517.64	1/4	3,225.20	1/4	2,867.98	1/4	2,510.77
1/2		1/2		1/2	3,946.80	1/2	3,839.11	1/2	3,731.30	1/2	3,623.50	1/2	3,514.77	1/2	3,217.76	1/2	2,860.54	1/2	2,503.33
3/4		3/4		3/4	3,944.59	3/4	3,836.87	3/4	3,729.06	3/4	3,621.25	3/4	3,511.89	3/4	3,210.32	3/4	2,853.10	3/4	2,495.89
11		11		11	3,942.39	11	3,834.62	11	3,726.81	11	3,619.01	11	3,509.02	11	3,202.87	11	2,845.65	11	2,488.44
1/4		1/4		1/4	3,940.18	1/4	3,832.37	1/4	3,724.56	1/4	3,616.76	1/4	3,506.14	1/4	3,195.43	1/4	2,838.21	1/4	2,481.00
1/2		1/2		1/2	3,937.94	1/2	3,830.13	1/2	3,722.32	1/2	3,614.51	1/2	3,502.54	1/2	3,187.99	1/2	2,830.77	1/2	2,473.56
3/4		3/4		3/4	3,935.69	3/4	3,827.88	3/4	3,720.07	3/4	3,612.27	3/4	3,498.94	3/4	3,180.55	3/4	2,823.33	3/4	2,466.12

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 WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 66'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HTCO 3069"

## 3 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 16'-10 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	2,458.67	0	2,101.45	0	1,744.24	0	1,387.02	0	1,029.81	0	672.59	0	315.37	0		0		0	
1/4	2,451.23	1/4	2,094.01	1/4	1,736.80	1/4	1,379.58	1/4	1,022.37	1/4	665.15	1/4	307.93	1/4		1/4		1/4	
1/2	2,443.79	1/2	2,086.57	1/2	1,729.36	1/2	1,372.14	1/2	1,014.93	1/2	657.71	1/2	300.49	1/2		1/2		1/2	
3/4	2,436.35	3/4	2,079.13	3/4	1,721.92	3/4	1,364.69	3/4	1,007.48	3/4	650.26	3/4	293.05	3/4		3/4		3/4	
1	2,428.90	1	2,071.69	1	1,714.47	1	1,357.25	1	1,000.04	1	642.82	1	285.61	1		1		1	
1/4	2,421.46	1/4	2,064.25	1/4	1,707.03	1/4	1,349.81	1/4	992.60	1/4	635.38	1/4	278.17	1/4		1/4		1/4	
1/2	2,414.02	1/2	2,056.81	1/2	1,699.59	1/2	1,342.37	1/2	985.16	1/2	627.94	1/2	270.73	1/2		1/2		1/2	
3/4	2,406.58	3/4	2,049.37	3/4	1,692.15	3/4	1,334.93	3/4	977.71	3/4	620.49	3/4	263.28	3/4		3/4		3/4	
2	2,399.13	2	2,041.92	2	1,684.70	2	1,327.49	2	970.27	2	613.05	2	255.84	2		2		2	
1/4	2,391.69	1/4	2,034.48	1/4	1,677.26	1/4	1,320.05	1/4	962.83	1/4	605.61	1/4	248.40	1/4		1/4		1/4	
1/2	2,384.25	1/2	2,027.04	1/2	1,669.82	1/2	1,312.61	1/2	955.39	1/2	598.17	1/2	240.96	1/2		1/2		1/2	
3/4	2,376.81	3/4	2,019.60	3/4	1,662.38	3/4	1,305.16	3/4	947.94	3/4	590.73	3/4	233.51	3/4		3/4		3/4	
3	2,369.37	3	2,012.15	3	1,654.93	3	1,297.72	3	940.50	3	583.29	3	226.07	3		3		3	
1/4	2,361.93	1/4	2,004.71	1/4	1,647.49	1/4	1,290.28	1/4	933.06	1/4	575.85	1/4	218.63	1/4		1/4		1/4	
1/2	2,354.49	1/2	1,997.27	1/2	1,640.05	1/2	1,282.84	1/2	925.62	1/2	568.41	1/2	211.19	1/2		1/2		1/2	
3/4	2,347.05	3/4	1,989.83	3/4	1,632.61	3/4	1,275.39	3/4	918.17	3/4	560.96	3/4	203.74	3/4		3/4		3/4	
4	2,339.60	4	1,982.38	4	1,625.17	4	1,267.95	4	910.73	4	553.52	4	196.30	4		4		4	
1/4	2,332.16	1/4	1,974.94	1/4	1,617.73	1/4	1,260.51	1/4	903.29	1/4	546.08	1/4	188.86	1/4		1/4		1/4	
1/2	2,324.72	1/2	1,967.50	1/2	1,610.29	1/2	1,253.07	1/2	895.85	1/2	538.64	1/2	181.57	1/2		1/2		1/2	
3/4	2,317.28	3/4	1,960.06	3/4	1,602.84	3/4	1,245.62	3/4	888.41	3/4	531.19	3/4	174.28	3/4		3/4		3/4	
5	2,309.83	5	1,952.61	5	1,595.40	5	1,238.18	5	880.97	5	523.75	5	167.00	5		5		5	
1/4	2,302.39	1/4	1,945.17	1/4	1,587.96	1/4	1,230.74	1/4	873.53	1/4	516.31	1/4	159.71	1/4		1/4		1/4	
1/2	2,294.95	1/2	1,937.73	1/2	1,580.52	1/2	1,223.30	1/2	866.09	1/2	508.87	1/2	152.47	1/2		1/2		1/2	
3/4	2,287.51	3/4	1,930.29	3/4	1,573.07	3/4	1,215.85	3/4	858.64	3/4	501.42	3/4	145.24	3/4		3/4		3/4	
6	2,280.06	6	1,922.85	6	1,565.63	6	1,208.41	6	851.20	6	493.98	6	138.00	6		6		6	
1/4	2,272.62	1/4	1,915.41	1/4	1,558.19	1/4	1,200.97	1/4	843.76	1/4	486.54	1/4	130.77	1/4		1/4		1/4	
1/2	2,265.18	1/2	1,907.97	1/2	1,550.75	1/2	1,193.53	1/2	836.32	1/2	479.10	1/2	123.53	1/2		1/2		1/2	
3/4	2,257.74	3/4	1,900.53	3/4	1,543.30	3/4	1,186.09	3/4	828.87	3/4	471.65	3/4	116.29	3/4		3/4		3/4	
7	2,250.29	7	1,893.08	7	1,535.86	7	1,178.65	7	821.43	7	464.21	7	109.06	7		7		7	
1/4	2,242.85	1/4	1,885.64	1/4	1,528.42	1/4	1,171.21	1/4	813.99	1/4	456.77	1/4	101.82	1/4		1/4		1/4	
1/2	2,235.41	1/2	1,878.20	1/2	1,520.98	1/2	1,163.77	1/2	806.55	1/2	449.33	1/2	94.58	1/2		1/2		1/2	
3/4	2,227.97	3/4	1,870.76	3/4	1,513.53	3/4	1,156.32	3/4	799.10	3/4	441.89	3/4	87.35	3/4		3/4		3/4	
8	2,220.53	8	1,863.31	8	1,506.09	8	1,148.88	8	791.66	8	434.45	8	80.11	8		8		8	
1/4	2,213.09	1/4	1,855.87	1/4	1,498.65	1/4	1,141.44	1/4	784.22	1/4	427.01	1/4	72.88	1/4		1/4		1/4	
1/2	2,205.65	1/2	1,848.43	1/2	1,491.21	1/2	1,134.00	1/2	776.78	1/2	419.57	1/2	65.78	1/2		1/2		1/2	
3/4	2,198.21	3/4	1,840.99	3/4	1,483.77	3/4	1,126.55	3/4	769.33	3/4	412.12	3/4	58.67	3/4		3/4		3/4	
9	2,190.76	9	1,833.54	9	1,476.33	9	1,119.11	9	761.89	9	404.68	9	51.57	9		9		9	
1/4	2,183.32	1/4	1,826.10	1/4	1,468.89	1/4	1,111.67	1/4	754.45	1/4	397.24	1/4	44.47	1/4		1/4		1/4	
1/2	2,175.88	1/2	1,818.66	1/2	1,461.45	1/2	1,104.23	1/2	747.01	1/2	389.80	1/2	38.97	1/2		1/2		1/2	
3/4	2,168.44	3/4	1,811.22	3/4	1,454.00	3/4	1,096.78	3/4	739.57	3/4	382.35	3/4	33.47	3/4		3/4		3/4	
10	2,160.99	10	1,803.77	10	1,446.56	10	1,089.34	10	732.13	10	374.91	10	27.97	10		10		10	
1/4	2,153.55	1/4	1,796.33	1/4	1,439.12	1/4	1,081.90	1/4	724.69	1/4	367.47	1/4	22.47	1/4		1/4		1/4	
1/2	2,146.11	1/2	1,788.89	1/2	1,431.68	1/2	1,074.46	1/2	717.25	1/2	360.03	1/2	18.79	1/2		1/2		1/2	
3/4	2,138.67	3/4	1,781.45	3/4	1,424.23	3/4	1,067.01	3/4	709.80	3/4	352.58	3/4		3/4		3/4		3/4	
11	2,131.22	11	1,774.01	11	1,416.79	11	1,059.57	11	702.36	11	345.14	11		11		11		11	
1/4	2,123.78	1/4	1,766.57	1/4	1,409.35	1/4	1,052.13	1/4	694.92	1/4	337.70	1/4		1/4		1/4		1/4	
1/2	2,116.34	1/2	1,759.13	1/2	1,401.91	1/2	1,044.69	1/2	687.48	1/2	330.26	1/2		1/2		1/2		1/2	
3/4	2,108.90	3/4	1,751.69	3/4	1,394.46	3/4	1,037.25	3/4	680.03	3/4	322.81	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2009 INS  
RECALCULATED: 11/06/2019 PMA  
REPRINTED: 11/06/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HTCO 3069"

## 3 STBD

### ULLAGE TABLE

### HERMETIC

#### GAUGE HEIGHT 16'-10 1/2"

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		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	3,933.45	0	3,825.64	0	3,717.83	0	3,610.02	0	3,495.33	0	3,173.10	0	2,815.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,931.20	1/4	3,823.39	1/4	3,715.58	1/4	3,607.77	1/4	3,491.73	1/4	3,165.66	1/4	2,808.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,928.95	1/2	3,821.14	1/2	3,713.34	1/2	3,605.53	1/2	3,487.36	1/2	3,158.22	1/2	2,801.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,926.71	3/4	3,818.90	3/4	3,711.09	3/4	3,603.28	3/4	3,482.98	3/4	3,150.78	3/4	2,793.57		
1	1	1	1	1	1	1	3,924.46	1	3,816.65	1	3,708.85	1	3,601.04	1	3,478.61	1	3,143.33	1	2,786.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,922.21	1/4	3,814.40	1/4	3,706.60	1/4	3,598.79	1/4	3,474.23	1/4	3,135.89	1/4	2,778.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,919.97	1/2	3,812.16	1/2	3,704.35	1/2	3,596.54	1/2	3,469.08	1/2	3,128.45	1/2	2,771.24		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,917.72	3/4	3,809.91	3/4	3,702.11	3/4	3,594.30	3/4	3,463.93	3/4	3,121.01	3/4	2,763.80		
2	2	2	2	2	2	2	3,915.48	2	3,798.67	2	3,699.86	2	3,592.05	2	3,458.77	2	3,113.57	2	2,756.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,913.23	1/4	3,805.42	1/4	3,697.61	1/4	3,589.80	1/4	3,453.62	1/4	3,106.13	1/4	2,748.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,910.98	1/2	3,803.18	1/2	3,695.37	1/2	3,587.56	1/2	3,447.69	1/2	3,098.69	1/2	2,741.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,908.74	3/4	3,800.93	3/4	3,693.12	3/4	3,585.31	3/4	3,441.77	3/4	3,091.25	3/4	2,734.03		
3	3	3	3	3	3	3	3,906.49	3	3,798.69	3	3,699.88	3	3,593.07	3	3,435.84	3	3,083.80	3	2,726.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,904.24	1/4	3,796.44	1/4	3,688.63	1/4	3,580.82	1/4	3,429.91	1/4	3,076.36	1/4	2,719.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,902.00	1/2	3,794.19	1/2	3,686.38	1/2	3,578.58	1/2	3,423.21	1/2	3,068.92	1/2	2,711.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,899.75	3/4	3,791.95	3/4	3,684.14	3/4	3,576.33	3/4	3,416.51	3/4	3,061.48	3/4	2,704.26		
4	4	4	4	4	4	4	3,897.51	4	3,789.70	4	3,681.89	4	3,574.09	4	3,409.80	4	3,054.03	4	2,696.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,895.26	1/4	3,787.45	1/4	3,679.64	1/4	3,571.84	1/4	3,403.10	1/4	3,046.59	1/4	2,689.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,893.02	1/2	3,785.21	1/2	3,677.40	1/2	3,569.59	1/2	3,395.84	1/2	3,039.15	1/2	2,681.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,890.77	3/4	3,782.96	3/4	3,675.15	3/4	3,567.35	3/4	3,388.57	3/4	3,031.71	3/4	2,674.49		
5	5	5	5	5	5	5	3,888.53	5	3,780.72	5	3,672.91	5	3,565.10	5	3,381.31	5	3,024.26	5	2,667.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,886.28	1/4	3,778.47	1/4	3,670.66	1/4	3,562.85	1/4	3,374.04	1/4	3,016.82	1/4	2,659.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,884.03	1/2	3,776.22	1/2	3,668.42	1/2	3,560.61	1/2	3,366.60	1/2	3,009.38	1/2	2,652.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,881.79	3/4	3,773.98	3/4	3,666.17	3/4	3,558.36	3/4	3,359.16	3/4	3,001.94	3/4	2,644.73		
6	6	6	6	6	6	6	3,879.54	6	3,771.73	6	3,663.93	6	3,556.12	6	3,351.71	6	2,994.49	6	2,637.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,877.29	1/4	3,769.48	1/4	3,661.68	1/4	3,553.87	1/4	3,344.27	1/4	2,987.05	1/4	2,629.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,875.05	1/2	3,767.24	1/2	3,659.43	1/2	3,551.62	1/2	3,336.83	1/2	2,979.61	1/2	2,622.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,872.80	3/4	3,765.04	3/4	3,657.19	3/4	3,549.38	3/4	3,329.39	3/4	2,972.17	3/4	2,614.96		
7	7	7	7	7	7	7	3,870.56	7	3,755.32	7	3,654.94	7	3,547.13	7	3,321.94	7	2,964.73	7	2,607.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,868.31	1/4	3,753.07	1/4	3,652.69	1/4	3,544.88	1/4	3,314.50	1/4	2,957.29	1/4	2,600.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,866.06	1/2	3,750.83	1/2	3,650.45	1/2	3,542.64	1/2	3,307.06	1/2	2,949.85	1/2	2,592.63		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,863.82	3/4	3,751.06	3/4	3,648.20	3/4	3,540.39	3/4	3,299.62	3/4	2,942.41	3/4	2,585.19		
8	8	8	3,964.96	8	3,861.57	8	3,751.29	8	3,645.96	8	3,538.15	8	3,429.17	8	3,292.17	8	2,934.96	8	2,577.74		
1/4	1/4	1/4	3,963.63	1/4	3,859.32	1/4	3,751.52	1/4	3,643.71	1/4	3,535.90	1/4	3,424.73	1/4	3,284.73	1/4	2,927.52	1/4	2,570.30		
1/2	1/2	1/2	3,961.97	1/2	3,857.08	1/2	3,749.27	1/2	3,641.46	1/2	3,533.66	1/2	3,421.29	1/2	3,277.29	1/2	2,920.08	1/2	2,562.86		
3/4	3/4	3/4	3,960.31	3/4	3,854.83	3/4	3,747.03	3/4	3,639.22	3/4	3,531.41	3/4	3,419.04	3/4	3,269.85	3/4	2,912.64	3/4	2,555.42		
9	9	9	3,958.64	9	3,852.59	9	3,744.78	9	3,636.97	9	3,529.17	9	3,421.17	9	3,262.41	9	2,905.19	9	2,547.97		
1/4	1/4	1/4	3,956.98	1/4	3,850.34	1/4	3,742.53	1/4	3,634.72	1/4	3,526.92	1/4	3,419.17	1/4	3,254.97	1/4	2,897.75	1/4	2,540.53		
1/2	1/2	1/2	3,954.99	1/2	3,848.10	1/2	3,740.29	1/2	3,632.48	1/2	3,524.60	1/2	3,417.53	1/2	3,247.53	1/2	2,890.31	1/2	2,533.09		
3/4	3/4	3/4	3,952.99	3/4	3,845.85	3/4	3,738.04	3/4	3,630.23	3/4	3,522.28	3/4	3,414.09	3/4	3,240.09	3/4	2,882.87	3/4	2,525.65		
10	10	10	3,951.00	10	3,843.61	10	3,735.80	10	3,627.99	10	3,519.96	10	3,412.64	10	3,232.64	10	2,875.42	10	2,518.21		
1/4	1/4	1/4	3,949.00	1/4	3,841.36	1/4	3,733.55	1/4	3,625.74	1/4	3,517.64	1/4	3,410.64	1/4	3,225.20	1/4	2,867.98	1/4	2,510.77		
1/2	1/2	1/2	3,946.80	1/2	3,839.11	1/2	3,731.30	1/2	3,623.50	1/2	3,514.77	1/2	3,411.76	1/2	3,217.76	1/2	2,860.54	1/2	2,503.33		
3/4	3/4	3/4	3,944.59	3/4	3,836.87	3/4	3,729.06	3/4	3,621.25	3/4	3,511.89	3/4	3,410.32	3/4	3,210.32	3/4	2,853.10	3/4	2,495.89		
11	11	11	3,942.39	11	3,834.62	11	3,726.81	11	3,619.01	11	3,509.02	11	3,402.87	11	3,202.87	11	2,845.65	11	2,488.44		
1/4	1/4	1/4	3,940.18	1/4	3,832.37	1/4	3,724.56	1/4	3,616.76	1/4	3,506.14	1/4	3,401.43	1/4	3,195.43	1/4	2,838.21	1/4	2,481.00		
1/2	1/2	1/2	3,937.94	1/2	3,830.13	1/2	3,722.32	1/2	3,614.51	1/2	3,502.54	1/2	3,187.99	1/2	3,187.99	1/2	2,830.77	1/2	2,473.56		
3/4	3/4	3/4	3,935.69	3/4	3,827.88	3/4	3,720.07	3/4	3,612.27	3/4	3,498.94	3/4	3,180.55	3/4	3,180.55	3/4	2,823.33	3/4	2,466.12		

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 WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 66'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HTCO 3069"

## 3 STBD

### ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-10 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	2,458.67	0	2,101.45	0	1,744.24	0	1,387.02	0	1,029.81	0	672.59	0	315.37	0		0		0	
1/4	2,451.23	1/4	2,094.01	1/4	1,736.80	1/4	1,379.58	1/4	1,022.37	1/4	665.15	1/4	307.93	1/4		1/4		1/4	
1/2	2,443.79	1/2	2,086.57	1/2	1,729.36	1/2	1,372.14	1/2	1,014.93	1/2	657.71	1/2	300.49	1/2		1/2		1/2	
3/4	2,436.35	3/4	2,079.13	3/4	1,721.92	3/4	1,364.69	3/4	1,007.48	3/4	650.26	3/4	293.05	3/4		3/4		3/4	
1	2,428.90	1	2,071.69	1	1,714.47	1	1,357.25	1	1,000.04	1	642.82	1	285.61	1		1		1	
1/4	2,421.46	1/4	2,064.25	1/4	1,707.03	1/4	1,349.81	1/4	992.60	1/4	635.38	1/4	278.17	1/4		1/4		1/4	
1/2	2,414.02	1/2	2,056.81	1/2	1,699.59	1/2	1,342.37	1/2	985.16	1/2	627.94	1/2	270.73	1/2		1/2		1/2	
3/4	2,406.58	3/4	2,049.37	3/4	1,692.15	3/4	1,334.93	3/4	977.71	3/4	620.49	3/4	263.28	3/4		3/4		3/4	
2	2,399.13	2	2,041.92	2	1,684.70	2	1,327.49	2	970.27	2	613.05	2	255.84	2		2		2	
1/4	2,391.69	1/4	2,034.48	1/4	1,677.26	1/4	1,320.05	1/4	962.83	1/4	605.61	1/4	248.40	1/4		1/4		1/4	
1/2	2,384.25	1/2	2,027.04	1/2	1,669.82	1/2	1,312.61	1/2	955.39	1/2	598.17	1/2	240.96	1/2		1/2		1/2	
3/4	2,376.81	3/4	2,019.60	3/4	1,662.38	3/4	1,305.16	3/4	947.94	3/4	590.73	3/4	233.51	3/4		3/4		3/4	
3	2,369.37	3	2,012.15	3	1,654.93	3	1,297.72	3	940.50	3	583.29	3	226.07	3		3		3	
1/4	2,361.93	1/4	2,004.71	1/4	1,647.49	1/4	1,290.28	1/4	933.06	1/4	575.85	1/4	218.63	1/4		1/4		1/4	
1/2	2,354.49	1/2	1,997.27	1/2	1,640.05	1/2	1,282.84	1/2	925.62	1/2	568.41	1/2	211.19	1/2		1/2		1/2	
3/4	2,347.05	3/4	1,989.83	3/4	1,632.61	3/4	1,275.39	3/4	918.17	3/4	560.96	3/4	203.74	3/4		3/4		3/4	
4	2,339.60	4	1,982.38	4	1,625.17	4	1,267.95	4	910.73	4	553.52	4	196.30	4		4		4	
1/4	2,332.16	1/4	1,974.94	1/4	1,617.73	1/4	1,260.51	1/4	903.29	1/4	546.08	1/4	188.86	1/4		1/4		1/4	
1/2	2,324.72	1/2	1,967.50	1/2	1,610.29	1/2	1,253.07	1/2	895.85	1/2	538.64	1/2	181.57	1/2		1/2		1/2	
3/4	2,317.28	3/4	1,960.06	3/4	1,602.84	3/4	1,245.62	3/4	888.41	3/4	531.19	3/4	174.28	3/4		3/4		3/4	
5	2,309.83	5	1,952.61	5	1,595.40	5	1,238.18	5	880.97	5	523.75	5	167.00	5		5		5	
1/4	2,302.39	1/4	1,945.17	1/4	1,587.96	1/4	1,230.74	1/4	873.53	1/4	516.31	1/4	159.71	1/4		1/4		1/4	
1/2	2,294.95	1/2	1,937.73	1/2	1,580.52	1/2	1,223.30	1/2	866.09	1/2	508.87	1/2	152.47	1/2		1/2		1/2	
3/4	2,287.51	3/4	1,930.29	3/4	1,573.07	3/4	1,215.85	3/4	858.64	3/4	501.42	3/4	145.24	3/4		3/4		3/4	
6	2,280.06	6	1,922.85	6	1,565.63	6	1,208.41	6	851.20	6	493.98	6	138.00	6		6		6	
1/4	2,272.62	1/4	1,915.41	1/4	1,558.19	1/4	1,200.97	1/4	843.76	1/4	486.54	1/4	130.77	1/4		1/4		1/4	
1/2	2,265.18	1/2	1,907.97	1/2	1,550.75	1/2	1,193.53	1/2	836.32	1/2	479.10	1/2	123.53	1/2		1/2		1/2	
3/4	2,257.74	3/4	1,900.53	3/4	1,543.30	3/4	1,186.09	3/4	828.87	3/4	471.65	3/4	116.29	3/4		3/4		3/4	
7	2,250.29	7	1,893.08	7	1,535.86	7	1,178.65	7	821.43	7	464.21	7	109.06	7		7		7	
1/4	2,242.85	1/4	1,885.64	1/4	1,528.42	1/4	1,171.21	1/4	813.99	1/4	456.77	1/4	101.82	1/4		1/4		1/4	
1/2	2,235.41	1/2	1,878.20	1/2	1,520.98	1/2	1,163.77	1/2	806.55	1/2	449.33	1/2	94.58	1/2		1/2		1/2	
3/4	2,227.97	3/4	1,870.76	3/4	1,513.53	3/4	1,156.32	3/4	799.10	3/4	441.89	3/4	87.35	3/4		3/4		3/4	
8	2,220.53	8	1,863.31	8	1,506.09	8	1,148.88	8	791.66	8	434.45	8	80.11	8		8		8	
1/4	2,213.09	1/4	1,855.87	1/4	1,498.65	1/4	1,141.44	1/4	784.22	1/4	427.01	1/4	72.88	1/4		1/4		1/4	
1/2	2,205.65	1/2	1,848.43	1/2	1,491.21	1/2	1,134.00	1/2	776.78	1/2	419.57	1/2	65.78	1/2		1/2		1/2	
3/4	2,198.21	3/4	1,840.99	3/4	1,483.77	3/4	1,126.55	3/4	769.33	3/4	412.12	3/4	58.67	3/4		3/4		3/4	
9	2,190.76	9	1,833.54	9	1,476.33	9	1,119.11	9	761.89	9	404.68	9	51.57	9		9		9	
1/4	2,183.32	1/4	1,826.10	1/4	1,468.89	1/4	1,111.67	1/4	754.45	1/4	397.24	1/4	44.47	1/4		1/4		1/4	
1/2	2,175.88	1/2	1,818.66	1/2	1,461.45	1/2	1,104.23	1/2	747.01	1/2	389.80	1/2	38.97	1/2		1/2		1/2	
3/4	2,168.44	3/4	1,811.22	3/4	1,454.00	3/4	1,096.78	3/4	739.57	3/4	382.35	3/4	33.47	3/4		3/4		3/4	
10	2,160.99	10	1,803.77	10	1,446.56	10	1,089.34	10	732.13	10	374.91	10	27.97	10		10		10	
1/4	2,153.55	1/4	1,796.33	1/4	1,439.12	1/4	1,081.90	1/4	724.69	1/4	367.47	1/4	22.47	1/4		1/4		1/4	
1/2	2,146.11	1/2	1,788.89	1/2	1,431.68	1/2	1,074.46	1/2	717.25	1/2	360.03	1/2	18.79	1/2		1/2		1/2	
3/4	2,138.67	3/4	1,781.45	3/4	1,424.23	3/4	1,067.01	3/4	709.80	3/4	352.58	3/4		3/4		3/4		3/4	
11	2,131.22	11	1,774.01	11	1,416.79	11	1,059.57	11	702.36	11	345.14	11		11		11		11	
1/4	2,123.78	1/4	1,766.57	1/4	1,409.35	1/4	1,052.13	1/4	694.92	1/4	337.70	1/4		1/4		1/4		1/4	
1/2	2,116.34	1/2	1,759.13	1/2	1,401.91	1/2	1,044.69	1/2	687.48	1/2	330.26	1/2		1/2		1/2		1/2	
3/4	2,108.90	3/4	1,751.69	3/4	1,394.46	3/4	1,037.25	3/4	680.03	3/4	322.81	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2009 INS  
RECALCULATED: 11/06/2019 PMA  
REPRINTED: 11/06/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

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