BARGE "E2MS 311"

INNAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"	
AFT DRAFT	=	6'-00"	
DIFF.	=	4'-00"	(DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 18, 2018

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

http://www.pmacorp.net

BARGE "E2MS 311"

1 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	15.27	0	303.39	0	652.57	0	1,008.52	0	1,365.63	0	1,723.44	0	2,081.24	0	2,439.04	0	2,796.78	0	3,154.49
1/4	18.31	1/4	310.27	1/4	660.03	1/4	1,015.91	1/4	1,373.09	1/4	1,730.89	1/4	2,088.69	1/4	2,446.49	1/4	2,804.24	1/4	3,161.94
1/2	21.35	1/2	317.16	1/2	667.48	1/2	1,023.31	1/2	1,380.54	1/2	1,738.34	1/2	2,096.15	1/2	2,453.95	1/2	2,811.69	1/2	3,169.39
3/4	24.40	3/4	324.05	3/4	674.93	3/4	1,030.70	3/4	1,388.00	3/4	1,745.80	3/4	2,103.60	3/4	2,461.40	3/4	2,819.14	3/4	3,176.85
1	27.44	1	330.93	1	682.39	1	1,038.10	1	1,395.45	1	1,753.25	1	2,111.05	1	2,468.86	1	2,826.59	1	3,184.30
1/4	32.43	1/4	337.90	1/4	689.84	1/4	1,045.50	1/4	1,402.90	1/4	1,760.71	1/4	2,118.51	1/4	2,476.31	1/4	2,834.05	1/4	3,191.75
1/2	37.42	1/2	344.88	1/2	697.30	1/2	1,052.91	1/2	1,410.36	1/2	1,768.16	1/2	2,125.96	1/2	2,483.76	1/2	2,841.50	1/2	3,199.20
3/4	42.41	3/4	351.85	3/4	704.75	3/4	1,060.31	3/4	1,417.81	3/4	1,775.61	3/4	2,133.42	3/4	2,491.22	3/4	2,848.95	3/4	3,206.66
2	47.40	2	358.82	2	712.20	2	1,067.72	2	1,425.27	2	1,783.07	2	2,140.87	2	2,498.67	2	2,856.40	2	3,214.11
1/4	53.37	1/4	365.88	1/4	719.66	1/4	1,075.14	1/4	1,432.72	1/4	1,790.52	1/4	2,148.32	1/4	2,506.13	1/4	2,863.85	1/4	3,221.56
1/2	59.35	1/2	372.94	1/2	727.11	1/2	1,082.56	1/2	1,440.18	1/2	1,797.98	1/2	2,155.78	1/2	2,513.58	1/2	2,871.31	1/2	3,229.01
3/4	65.32	3/4	380.01	3/4	734.57	3/4	1,089.99	3/4	1,447.63	3/4	1,805.43	3/4	2,163.23	3/4	2,521.03	3/4	2,878.76	3/4	3,236.46
3	71.30	3	387.07	3	742.02	3	1,097.41	3	1,455.08	3	1,812.89	3	2,170.69	3	2,528.49	3	2,886.21	3	3,243.92
1/4	77.38	1/4	394.21	1/4	749.47	1/4	1,104.83	1/4	1,462.54	1/4	1,820.34	1/4	2,178.14	1/4	2,535.94	1/4	2,893.66	1/4	3,251.37
1/2	83.47	1/2	401.36	1/2	756.93	1/2	1,112.25	1/2	1,469.99	1/2	1,827.79	1/2	2,185.60	1/2	2,543.40	1/2	2,901.12	1/2	3,258.82
3/4	89.56	3/4	408.51	3/4	764.38	3/4	1,119.68	3/4	1,477.45	3/4	1,835.25	3/4	2,193.05	3/4	2,550.85	3/4	2,908.57	3/4	3,266.27
4	95.65	4	415.66	4	771.84	4	1,127.10	4	1,484.90	4	1,842.70	4	2,200.50	4	2,558.31	4	2,916.02	4	3,273.73
1/4	101.83	1/4	422.89	1/4	779.24	1/4	1,134.55	1/4	1,492.36	1/4	1,850.16	1/4	2,207.96	1/4	2,565.76	1/4	2,923.47	1/4	3,281.18
1/2	108.02	1/2	430.13	1/2	786.64	1/2	1,142.01	1/2	1,499.81	1/2	1,857.61	1/2	2,215.41	1/2	2,573.21	1/2	2,930.92	1/2	3,288.63
3/4	114.20	3/4	437.36	3/4	794.05	3/4	1,149.46	3/4	1,507.26	3/4	1,865.07	3/4	2,222.87	3/4	2,580.67	3/4	2,938.38	3/4	3,296.08
5	120.39	5	444.60	5	801.45	5	1,156.92	5	1,514.72	5	1,872.52	5	2,230.32	5	2,588.12	5	2,945.83	5	3,303.53
1/4	126.66	1/4	451.92	1/4	808.85	1/4	1,164.37	1/4	1,522.17	1/4	1,879.97	1/4	2,237.78	1/4	2,595.57	1/4	2,953.28	1/4	3,310.99
1/2	132.93	1/2	459.25	1/2	816.24	1/2	1,171.82	1/2	1,529.63	1/2	1,887.43	1/2	2,245.23	1/2	2,603.03	1/2	2,960.73	1/2	3,318.44
3/4	139.21	3/4	466.57	3/4	823.64	3/4	1,179.28	3/4	1,537.08	3/4	1,894.88	3/4	2,252.68	3/4	2,610.48	3/4	2,968.18	3/4	3,325.89
6	145.48	6	473.89	6	831.03	6	1,186.73	6	1,544.53	6	1,902.34	6	2,260.14	6	2,617.93	6	2,975.64	6	3,333.34
1/4	151.84	1/4	481.30	1/4	838.43	1/4	1,194.19	1/4	1,551.99	1/4	1,909.79	1/4	2,267.59	1/4	2,625.38	1/4	2,983.09	1/4	3,340.79
1/2	158.20	1/2	488.71	1/2	845.82	1/2	1,201.64	1/2	1,559.44	1/2	1,917.24	1/2	2,275.05	1/2	2,632.84	1/2	2,990.54	1/2	3,348.25
3/4	164.56	3/4	496.12	3/4	853.22	3/4	1,209.10	3/4	1,566.90	3/4	1,924.70	3/4	2,282.50	3/4	2,640.29	3/4	2,997.99	3/4	3,355.70
7	170.92	7	503.53	7	860.61	7	1,216.55	7	1,574.35	7	1,932.15	7	2,289.95	7	2,647.74	7	3,005.45	7	3,363.15
1/4	177.37	1/4	510.99	1/4	868.01	1/4	1,224.00	1/4	1,581.81	1/4	1,939.61	1/4	2,297.41	1/4	2,655.19	1/4	3,012.90	1/4	3,370.60
1/2	183.82	1/2	518.44	1/2	875.40	1/2	1,231.46	1/2	1,589.26	1/2	1,947.06	1/2	2,304.86	1/2	2,662.64	1/2	3,020.35	1/2	3,378.06
3/4	190.27	3/4	525.90	3/4	882.80	3/4	1,238.91	3/4	1,596.71	3/4	1,954.52	3/4	2,312.32	3/4	2,670.10	3/4	3,027.80	3/4	3,385.51
8	196.72	8	533.35	8	890.19	8	1,246.37	8	1,604.17	8	1,961.97	8	2,319.77	8	2,677.55	8	3,035.25	8	3,392.96
1/4	203.25	1/4	540.80	1/4	897.59	1/4	1,253.82	1/4	1,611.62	1/4	1,969.42	1/4	2,327.23	1/4	2,685.00	1/4	3,042.71	1/4	3,400.41
1/2	209.79	1/2	548.25	1/2	904.98	1/2	1,261.28	1/2	1,619.08	1/2	1,976.88	1/2	2,334.68	1/2	2,692.45	1/2	3,050.16	1/2	3,407.86
3/4	216.32	3/4	555.70	3/4	912.38	3/4	1,268.73	3/4	1,626.53	3/4	1,984.33	3/4	2,342.13	3/4	2,699.91	3/4	3,057.61	3/4	3,415.32
9	222.86	9	563.14	9	919.78	9	1,276.18	9	1,633.99	9	1,991.79	9	2,349.59	9	2,707.36	9	3,065.06	9	3,422.77
1/4	229.48	1/4	570.59	1/4	927.17	1/4	1,283.64	1/4	1,641.44	1/4	1,999.24	1/4	2,357.04	1/4	2,714.81	1/4	3,072.52	1/4	3,430.22
1/2	236.11	1/2	578.04	1/2	934.57	1/2	1,291.09	1/2	1,648.89	1/2	2,006.70	1/2	2,364.50	1/2	2,722.26	1/2	3,079.97	1/2	3,437.67
3/4	242.73	3/4	585.49	3/4	941.96	3/4	1,298.55	3/4	1,656.35	3/4	2,014.15	3/4	2,371.95	3/4	2,729.71	3/4	3,087.42	3/4	3,445.13
10	249.35	10	592.94	10	949.36	10	1,306.00	10	1,663.80	10	2,021.60	10	2,379.41	10	2,737.17	10	3,094.87	10	3,452.58
1/4	256.06	1/4	600.39	1/4	956.75	1/4	1,313.45	1/4	1,671.26	1/4	2,029.06	1/4	2,386.86	1/4	2,744.62	1/4	3,102.32	1/4	3,460.03
1/2	262.77	1/2	607.85	1/2	964.15	1/2	1,320.91	1/2	1,678.71	1/2	2,036.51	1/2	2,394.31	1/2	2,752.07	1/2	3,109.78	1/2	3,467.48
3/4	269.49	3/4	615.30	3/4	971.54	3/4	1,328.36	3/4	1,686.16	3/4	2,043.97	3/4	2,401.77	3/4	2,759.52	3/4	3,117.23	3/4	3,474.93
11	276.20	11	622.76	11	978.94	11	1,335.82	11	1,693.62	11	2,051.42	11	2,409.22	11	2,766.98	11	3,124.68	11	3,482.39
1/4	282.99	1/4	630.21	1/4	986.33	1/4	1,343.27	1/4	1,701.07	1/4	2,058.87	1/4	2,416.68	1/4	2,774.43	1/4	3,132.13	1/4	3,489.84
1/2	289.79	1/2	637.66	1/2	993.73	1/2	1,350.73	1/2	1,708.53	1/2	2,066.33	1/2	2,424.13	1/2	2,781.88	1/2	3,139.59	1/2	3,497.29
3/4	296.59	3/4	645.12	3/4	1,001.12	3/4	1,358.18	3/4	1,715.98	3/4	2,073.78	3/4	2,431.58	3/4	2,789.33	3/4	3,147.04	3/4	3,504.74

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 INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 311"

1 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,512.20	0	3,869.90	0	4,226.91	0	4,583.56	0	4,938.40	0		0		0		0		0	
1/4	3,519.65	1/4	3,877.35	1/4	4,234.34	1/4	4,590.99	1/4	4,945.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.10	1/2	3,884.81	1/2	4,241.77	1/2	4,598.42	1/2	4,952.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.55	3/4	3,892.26	3/4	4,249.20	3/4	4,605.85	3/4	4,960.27	3/4		3/4		3/4		3/4		3/4	
1	3,542.00	1	3,899.71	1	4,256.63	1	4,613.28	1	4,967.56	1		1		1		1		1	
1/4	3,549.46	1/4	3,907.16	1/4	4,264.06	1/4	4,620.71	1/4	4,973.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,556.91	1/2	3,914.61	1/2	4,271.49	1/2	4,628.14	1/2	4,980.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.36	3/4	3,922.07	3/4	4,278.92	3/4	4,635.57	3/4	4,986.84	3/4		3/4		3/4		3/4		3/4	
2	3,571.81	2	3,929.52	2	4,286.35	2	4,643.00	2	4,993.26	2		2		2		2		2	
1/4	3,579.27	1/4	3,936.97	1/4	4,293.78	1/4	4,650.43	1/4	4,998.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,586.72	1/2	3,944.42	1/2	4,301.21	1/2	4,657.86	1/2	5,003.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,594.17	3/4	3,951.88	3/4	4,308.64	3/4	4,665.29	3/4	5,008.82	3/4		3/4		3/4		3/4		3/4	
3	3,601.62	3	3,959.33	3	4,316.07	3	4,672.72	3	5,014.00	3		3		3		3		3	
1/4	3,609.07	1/4	3,966.78	1/4	4,323.50	1/4	4,680.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.53	1/2	3,974.23	1/2	4,330.93	1/2	4,687.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,623.98	3/4	3,981.68	3/4	4,338.36	3/4	4,695.01	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,631.43	4	3,989.14	4	4,345.79	4	4,702.45	4		4		4		4		4		4	
1/4	3,638.88	1/4	3,996.57	1/4	4,353.22	1/4	4,709.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.34	1/2	4,004.00	1/2	4,360.65	1/2	4,717.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.79	3/4	4,011.43	3/4	4,368.08	3/4	4,724.74	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,661.24	5	4,018.86	5	4,375.51	5	4,732.17	5		5		5		5		5		5	
1/4	3,668.69	1/4	4,026.29	1/4	4,382.94	1/4	4,739.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,676.14	1/2	4,033.72	1/2	4,390.37	1/2	4,747.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.60	3/4	4,041.15	3/4	4,397.80	3/4	4,754.46	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,691.05	6	4,048.58	6	4,405.23	6	4,761.89	6		6		6		6		6		6	
1/4	3,698.50	1/4	4,056.01	1/4	4,412.66	1/4	4,769.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,705.95	1/2	4,063.44	1/2	4,420.09	1/2	4,776.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.40	3/4	4,070.87	3/4	4,427.52	3/4	4,783.96	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,720.86	7	4,078.30	7	4,434.95	7	4,791.32	7		7		7		7		7		7	
1/4	3,728.31	1/4	4,085.73	1/4	4,442.38	1/4	4,798.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.76	1/2	4,093.16	1/2	4,449.81	1/2	4,806.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,743.21	3/4	4,100.59	3/4	4,457.25	3/4	4,813.39	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,750.67	8	4,108.02	8	4,464.68	8	4,820.74	8		8		8		8		8		8	
1/4	3,758.12	1/4	4,115.45	1/4	4,472.11	1/4	4,828.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.57	1/2	4,122.88	1/2	4,479.54	1/2	4,835.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.02	3/4	4,130.31	3/4	4,486.97	3/4	4,842.81	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,780.47	9	4,137.74	9	4,494.40	9	4,850.17	9		9		9		9		9		9	
1/4	3,787.93	1/4	4,145.17	1/4	4,501.83	1/4	4,857.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,795.38	1/2	4,152.60	1/2	4,509.26	1/2	4,864.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.83	3/4	4,160.03	3/4	4,516.69	3/4	4,872.25	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.28	10	4,167.46	10	4,524.12	10	4,879.61	10		10		10		10		10		10	
1/4	3,817.74	1/4	4,174.89	1/4	4,531.55	1/4	4,886.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.19	1/2	4,182.32	1/2	4,538.98	1/2	4,894.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.64	3/4	4,189.75	3/4	4,546.41	3/4	4,901.67	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,840.09	11	4,197.18	11	4,553.84	11	4,909.03	11		11		11		11		11		11	
1/4	3,847.54	1/4	4,204.62	1/4	4,561.27	1/4	4,916.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,855.00	1/2	4,212.05	1/2	4,568.70	1/2	4,923.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.45	3/4	4,219.48	3/4	4,576.13	3/4	4,931.06	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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

BARGE "E2MS 311"

1 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	0	303.20	0	652.24	0	1,009.46	0	1,366.96	0	1,724.57	0	2,082.18	0	2,439.79	0	2,797.35	0	3,154.86
1/4	18.30	1/4	310.08	1/4	659.69	1/4	1,016.89	1/4	1,374.41	1/4	1,732.02	1/4	2,089.63	1/4	2,447.24	1/4	2,804.79	1/4	3,162.31
1/2	21.34	1/2	316.97	1/2	667.14	1/2	1,024.33	1/2	1,381.86	1/2	1,739.47	1/2	2,097.08	1/2	2,454.69	1/2	2,812.24	1/2	3,169.76
3/4	24.38	3/4	323.85	3/4	674.59	3/4	1,031.76	3/4	1,389.31	3/4	1,746.92	3/4	2,104.53	3/4	2,462.14	3/4	2,819.69	3/4	3,177.20
1	27.42	1	330.73	1	682.04	1	1,039.20	1	1,396.76	1	1,754.37	1	2,111.98	1	2,469.59	1	2,827.14	1	3,184.65
1/4	32.41	1/4	337.70	1/4	689.49	1/4	1,046.64	1/4	1,404.21	1/4	1,761.82	1/4	2,119.43	1/4	2,477.04	1/4	2,834.59	1/4	3,192.10
1/2	37.39	1/2	344.67	1/2	696.94	1/2	1,054.09	1/2	1,411.66	1/2	1,769.27	1/2	2,126.88	1/2	2,484.49	1/2	2,842.03	1/2	3,199.55
3/4	42.38	3/4	351.64	3/4	704.39	3/4	1,061.53	3/4	1,419.11	3/4	1,776.72	3/4	2,134.33	3/4	2,491.94	3/4	2,849.48	3/4	3,207.00
2	47.37	2	358.61	2	711.84	2	1,068.98	2	1,426.56	2	1,784.17	2	2,141.78	2	2,499.39	2	2,856.93	2	3,214.44
1/4	53.34	1/4	365.66	1/4	719.29	1/4	1,076.42	1/4	1,434.01	1/4	1,791.62	1/4	2,149.23	1/4	2,506.84	1/4	2,864.38	1/4	3,221.89
1/2	59.31	1/2	372.72	1/2	726.74	1/2	1,083.87	1/2	1,441.46	1/2	1,799.07	1/2	2,156.68	1/2	2,514.29	1/2	2,871.83	1/2	3,229.34
3/4	65.28	3/4	379.78	3/4	734.19	3/4	1,091.31	3/4	1,448.92	3/4	1,806.52	3/4	2,164.13	3/4	2,521.74	3/4	2,879.28	3/4	3,236.79
3	71.25	3	386.83	3	741.64	3	1,098.76	3	1,456.37	3	1,813.97	3	2,171.58	3	2,529.19	3	2,886.72	3	3,244.24
1/4	77.33	1/4	393.98	1/4	749.09	1/4	1,106.21	1/4	1,463.82	1/4	1,821.43	1/4	2,179.03	1/4	2,536.64	1/4	2,894.17	1/4	3,251.69
1/2	83.42	1/2	401.12	1/2	756.54	1/2	1,113.66	1/2	1,471.27	1/2	1,828.88	1/2	2,186.48	1/2	2,544.09	1/2	2,901.62	1/2	3,259.13
3/4	89.50	3/4	408.27	3/4	763.99	3/4	1,121.11	3/4	1,478.72	3/4	1,836.33	3/4	2,193.94	3/4	2,551.54	3/4	2,909.07	3/4	3,266.58
4	95.59	4	415.41	4	771.44	4	1,128.56	4	1,486.17	4	1,843.78	4	2,201.39	4	2,558.99	4	2,916.52	4	3,274.03
1/4	101.77	1/4	422.64	1/4	778.89	1/4	1,136.01	1/4	1,493.62	1/4	1,851.23	1/4	2,208.84	1/4	2,566.45	1/4	2,923.96	1/4	3,281.48
1/2	107.95	1/2	429.87	1/2	786.34	1/2	1,143.46	1/2	1,501.07	1/2	1,858.68	1/2	2,216.29	1/2	2,573.90	1/2	2,931.41	1/2	3,288.93
3/4	114.13	3/4	437.10	3/4	793.80	3/4	1,150.91	3/4	1,508.52	3/4	1,866.13	3/4	2,223.74	3/4	2,581.35	3/4	2,938.86	3/4	3,296.37
5	120.31	5	444.34	5	801.25	5	1,158.36	5	1,515.97	5	1,873.58	5	2,231.19	5	2,588.80	5	2,946.31	5	3,303.82
1/4	126.58	1/4	451.65	1/4	808.68	1/4	1,165.81	1/4	1,523.42	1/4	1,881.03	1/4	2,238.64	1/4	2,596.24	1/4	2,953.76	1/4	3,311.27
1/2	132.85	1/2	458.97	1/2	816.12	1/2	1,173.26	1/2	1,530.87	1/2	1,888.48	1/2	2,246.09	1/2	2,603.69	1/2	2,961.21	1/2	3,318.72
3/4	139.12	3/4	466.29	3/4	823.55	3/4	1,180.71	3/4	1,538.32	3/4	1,895.93	3/4	2,253.54	3/4	2,611.14	3/4	2,968.65	3/4	3,326.17
6	145.39	6	473.61	6	830.99	6	1,188.16	6	1,545.77	6	1,903.38	6	2,260.99	6	2,618.59	6	2,976.10	6	3,333.62
1/4	151.74	1/4	481.02	1/4	838.43	1/4	1,195.61	1/4	1,553.22	1/4	1,910.83	1/4	2,268.44	1/4	2,626.04	1/4	2,983.55	1/4	3,341.06
1/2	158.10	1/2	488.42	1/2	845.86	1/2	1,203.06	1/2	1,560.67	1/2	1,918.28	1/2	2,275.89	1/2	2,633.48	1/2	2,991.00	1/2	3,348.51
3/4	164.46	3/4	495.83	3/4	853.30	3/4	1,210.51	3/4	1,568.12	3/4	1,925.73	3/4	2,283.34	3/4	2,640.93	3/4	2,998.45	3/4	3,355.96
7	170.82	7	503.24	7	860.73	7	1,217.96	7	1,575.57	7	1,933.18	7	2,290.79	7	2,648.38	7	3,005.89	7	3,363.41
1/4	177.26	1/4	510.69	1/4	868.17	1/4	1,225.41	1/4	1,583.02	1/4	1,940.63	1/4	2,298.24	1/4	2,655.83	1/4	3,013.34	1/4	3,370.86
1/2	183.70	1/2	518.14	1/2	875.61	1/2	1,232.86	1/2	1,590.47	1/2	1,948.08	1/2	2,305.69	1/2	2,663.28	1/2	3,020.79	1/2	3,378.30
3/4	190.15	3/4	525.59	3/4	883.04	3/4	1,240.31	3/4	1,597.92	3/4	1,955.53	3/4	2,313.14	3/4	2,670.73	3/4	3,028.24	3/4	3,385.75
8	196.59	8	533.04	8	890.48	8	1,247.76	8	1,605.37	8	1,962.98	8	2,320.59	8	2,678.17	8	3,035.69	8	3,393.20
1/4	203.13	1/4	540.49	1/4	897.91	1/4	1,255.21	1/4	1,612.82	1/4	1,970.43	1/4	2,328.04	1/4	2,685.62	1/4	3,043.14	1/4	3,400.65
1/2	209.66	1/2	547.94	1/2	905.35	1/2	1,262.66	1/2	1,620.27	1/2	1,977.88	1/2	2,335.49	1/2	2,693.07	1/2	3,050.58	1/2	3,408.10
3/4	216.19	3/4	555.39	3/4	912.79	3/4	1,270.11	3/4	1,627.72	3/4	1,985.33	3/4	2,342.94	3/4	2,700.52	3/4	3,058.03	3/4	3,415.55
9	222.72	9	562.84	9	920.22	9	1,277.56	9	1,635.17	9	1,992.78	9	2,350.39	9	2,707.97	9	3,065.48	9	3,422.99
1/4	229.34	1/4	570.29	1/4	927.66	1/4	1,285.01	1/4	1,642.62	1/4	2,000.23	1/4	2,357.84	1/4	2,715.42	1/4	3,072.93	1/4	3,430.44
1/2	235.96	1/2	577.74	1/2	935.10	1/2	1,292.46	1/2	1,650.07	1/2	2,007.68	1/2	2,365.29	1/2	2,722.86	1/2	3,080.38	1/2	3,437.89
3/4	242.58	3/4	585.19	3/4	942.53	3/4	1,299.91	3/4	1,657.52	3/4	2,015.13	3/4	2,372.74	3/4	2,730.31	3/4	3,087.83	3/4	3,445.34
10	249.20	10	592.64	10	949.97	10	1,307.36	10	1,664.97	10	2,022.58	10	2,380.19	10	2,737.76	10	3,095.27	10	3,452.79
1/4	255.91	1/4	600.09	1/4	957.40	1/4	1,314.81	1/4	1,672.42	1/4	2,030.03	1/4	2,387.64	1/4	2,745.21	1/4	3,102.72	1/4	3,460.23
1/2	262.61	1/2	607.54	1/2	964.84	1/2	1,322.26	1/2	1,679.87	1/2	2,037.48	1/2	2,395.09	1/2	2,752.66	1/2	3,110.17	1/2	3,467.68
3/4	269.32	3/4	614.99	3/4	972.28	3/4	1,329.71	3/4	1,687.32	3/4	2,044.93	3/4	2,402.54	3/4	2,760.10	3/4	3,117.62	3/4	3,475.13
11	276.03	11	622.44	11	979.71	11	1,337.16	11	1,694.77	11	2,052.38	11	2,409.99	11	2,767.55	11	3,125.07	11	3,482.58
1/4	282.82	1/4	629.89	1/4	987.15	1/4	1,344.61	1/4	1,702.22	1/4	2,059.83	1/4	2,417.44	1/4	2,775.00	1/4	3,132.51	1/4	3,490.03
1/2	289.61	1/2	637.34	1/2	994.58	1/2	1,352.06	1/2	1,709.67	1/2	2,067.28	1/2	2,424.89	1/2	2,782.45	1/2	3,139.96	1/2	3,497.48
3/4	296.41	3/4	644.79	3/4	1,002.02	3/4	1,359.51	3/4	1,717.12	3/4	2,074.73	3/4	2,432.34	3/4	2,789.90	3/4	3,147.41	3/4	3,504.92

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 INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 311"

1 STBD

INNAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-09 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	3,512.37	0	3,869.89	0	4,226.70	0	4,583.15	0	4,937.80	0		0		0		0		0	
1/4	3,519.82	1/4	3,877.33	1/4	4,234.12	1/4	4,590.58	1/4	4,945.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.27	1/2	3,884.78	1/2	4,241.55	1/2	4,598.01	1/2	4,952.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.72	3/4	3,892.23	3/4	4,248.97	3/4	4,605.43	3/4	4,959.65	3/4		3/4		3/4		3/4		3/4	
1	3,542.17	1	3,899.68	1	4,256.40	1	4,612.86	1	4,966.94	1		1		1		1		1	
1/4	3,549.61	1/4	3,907.13	1/4	4,263.83	1/4	4,620.28	1/4	4,973.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,557.06	1/2	3,914.58	1/2	4,271.25	1/2	4,627.71	1/2	4,979.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.51	3/4	3,922.02	3/4	4,278.68	3/4	4,635.14	3/4	4,986.21	3/4		3/4		3/4		3/4		3/4	
2	3,571.96	2	3,929.47	2	4,286.11	2	4,642.56	2	4,992.63	2		2		2		2		2	
1/4	3,579.41	1/4	3,936.92	1/4	4,293.53	1/4	4,649.99	1/4	4,997.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,586.85	1/2	3,944.37	1/2	4,300.96	1/2	4,657.42	1/2	5,002.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,594.30	3/4	3,951.82	3/4	4,308.38	3/4	4,664.84	3/4	5,008.18	3/4		3/4		3/4		3/4		3/4	
3	3,601.75	3	3,959.26	3	4,315.81	3	4,672.27	3	5,013.36	3		3		3		3		3	
1/4	3,609.20	1/4	3,966.71	1/4	4,323.24	1/4	4,679.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.65	1/2	3,974.16	1/2	4,330.66	1/2	4,687.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,624.10	3/4	3,981.61	3/4	4,338.09	3/4	4,694.55	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,631.54	4	3,989.06	4	4,345.51	4	4,701.97	4		4		4		4		4		4	
1/4	3,638.99	1/4	3,996.48	1/4	4,352.94	1/4	4,709.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.44	1/2	4,003.91	1/2	4,360.37	1/2	4,716.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.89	3/4	4,011.34	3/4	4,367.79	3/4	4,724.25	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,661.34	5	4,018.76	5	4,375.22	5	4,731.68	5		5		5		5		5		5	
1/4	3,668.78	1/4	4,026.19	1/4	4,382.65	1/4	4,739.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,676.23	1/2	4,033.61	1/2	4,390.07	1/2	4,746.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.68	3/4	4,041.04	3/4	4,397.50	3/4	4,753.96	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,691.13	6	4,048.47	6	4,404.92	6	4,761.38	6		6		6		6		6		6	
1/4	3,698.58	1/4	4,055.89	1/4	4,412.35	1/4	4,768.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,706.03	1/2	4,063.32	1/2	4,419.78	1/2	4,776.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.47	3/4	4,070.75	3/4	4,427.20	3/4	4,783.44	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,720.92	7	4,078.17	7	4,434.63	7	4,790.79	7		7		7		7		7		7	
1/4	3,728.37	1/4	4,085.60	1/4	4,442.06	1/4	4,798.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.82	1/2	4,093.02	1/2	4,449.48	1/2	4,805.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,743.27	3/4	4,100.45	3/4	4,456.91	3/4	4,812.85	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,750.71	8	4,107.88	8	4,464.33	8	4,820.21	8		8		8		8		8		8	
1/4	3,758.16	1/4	4,115.30	1/4	4,471.76	1/4	4,827.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.61	1/2	4,122.73	1/2	4,479.19	1/2	4,834.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.06	3/4	4,130.15	3/4	4,486.61	3/4	4,842.26	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,780.51	9	4,137.58	9	4,494.04	9	4,849.62	9		9		9		9		9		9	
1/4	3,787.96	1/4	4,145.01	1/4	4,501.46	1/4	4,856.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,795.40	1/2	4,152.43	1/2	4,508.89	1/2	4,864.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.85	3/4	4,159.86	3/4	4,516.32	3/4	4,871.68	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.30	10	4,167.29	10	4,523.74	10	4,879.04	10		10		10		10		10		10	
1/4	3,817.75	1/4	4,174.71	1/4	4,531.17	1/4	4,886.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.20	1/2	4,182.14	1/2	4,538.60	1/2	4,893.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.64	3/4	4,189.56	3/4	4,546.02	3/4	4,901.09	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,840.09	11	4,196.99	11	4,553.45	11	4,908.44	11		11		11		11		11		11	
1/4	3,847.54	1/4	4,204.42	1/4	4,560.87	1/4	4,915.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,854.99	1/2	4,211.84	1/2	4,568.30	1/2	4,923.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.44	3/4	4,219.27	3/4	4,575.73	3/4	4,930.46	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

2 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	15.31	0	358.86	0	717.56	0	1,066.54	0	1,420.49	0	1,779.19	0	2,137.89	0	2,496.59	0	2,855.29	0	3,213.99
1/4	19.98	1/4	366.33	1/4	725.03	1/4	1,073.70	1/4	1,427.97	1/4	1,786.67	1/4	2,145.37	1/4	2,504.06	1/4	2,862.76	1/4	3,221.46
1/2	24.65	1/2	373.81	1/2	732.50	1/2	1,080.87	1/2	1,435.44	1/2	1,794.14	1/2	2,152.84	1/2	2,511.54	1/2	2,870.24	1/2	3,228.94
3/4	29.32	3/4	381.28	3/4	739.97	3/4	1,088.04	3/4	1,442.91	3/4	1,801.61	3/4	2,160.31	3/4	2,519.01	3/4	2,877.71	3/4	3,236.41
1	33.99	1	388.75	1	747.45	1	1,095.20	1	1,450.39	1	1,809.09	1	2,167.78	1	2,526.48	1	2,885.18	1	3,243.88
1/4	40.53	1/4	396.22	1/4	754.92	1/4	1,102.38	1/4	1,457.86	1/4	1,816.56	1/4	2,175.26	1/4	2,533.96	1/4	2,892.66	1/4	3,251.35
1/2	47.07	1/2	403.70	1/2	762.39	1/2	1,109.55	1/2	1,465.33	1/2	1,824.03	1/2	2,182.73	1/2	2,541.43	1/2	2,900.13	1/2	3,258.83
3/4	53.60	3/4	411.17	3/4	769.86	3/4	1,116.73	3/4	1,472.80	3/4	1,831.50	3/4	2,190.20	3/4	2,548.90	3/4	2,907.60	3/4	3,266.30
2	60.14	2	418.64	2	777.34	2	1,123.90	2	1,480.28	2	1,838.98	2	2,197.68	2	2,556.38	2	2,915.07	2	3,273.77
1/4	67.58	1/4	426.12	1/4	784.81	1/4	1,131.08	1/4	1,487.75	1/4	1,846.45	1/4	2,205.15	1/4	2,563.85	1/4	2,922.55	1/4	3,281.25
1/2	75.01	1/2	433.59	1/2	792.28	1/2	1,138.25	1/2	1,495.22	1/2	1,853.92	1/2	2,212.62	1/2	2,571.32	1/2	2,930.02	1/2	3,288.72
3/4	82.45	3/4	441.06	3/4	799.76	3/4	1,145.42	3/4	1,502.70	3/4	1,861.40	3/4	2,220.09	3/4	2,578.79	3/4	2,937.49	3/4	3,296.19
3	89.89	3	448.53	3	807.23	3	1,152.60	3	1,510.17	3	1,868.87	3	2,227.57	3	2,586.27	3	2,944.97	3	3,303.67
1/4	97.35	1/4	456.01	1/4	814.70	1/4	1,159.79	1/4	1,517.64	1/4	1,876.34	1/4	2,235.04	1/4	2,593.74	1/4	2,952.44	1/4	3,311.14
1/2	104.81	1/2	463.48	1/2	822.17	1/2	1,166.98	1/2	1,525.11	1/2	1,883.81	1/2	2,242.51	1/2	2,601.21	1/2	2,959.91	1/2	3,318.61
3/4	112.27	3/4	470.95	3/4	829.65	3/4	1,174.17	3/4	1,532.59	3/4	1,891.29	3/4	2,249.99	3/4	2,608.69	3/4	2,967.38	3/4	3,326.08
4	119.74	4	478.43	4	837.12	4	1,181.36	4	1,540.06	4	1,898.76	4	2,257.46	4	2,616.16	4	2,974.86	4	3,333.56
1/4	127.21	1/4	485.90	1/4	844.31	1/4	1,188.83	1/4	1,547.53	1/4	1,906.23	1/4	2,264.93	1/4	2,623.63	1/4	2,982.33	1/4	3,341.03
1/2	134.68	1/2	493.37	1/2	851.50	1/2	1,196.31	1/2	1,555.01	1/2	1,913.71	1/2	2,272.40	1/2	2,631.10	1/2	2,989.80	1/2	3,348.50
3/4	142.15	3/4	500.84	3/4	858.69	3/4	1,203.78	3/4	1,562.48	3/4	1,921.18	3/4	2,279.88	3/4	2,638.58	3/4	2,997.28	3/4	3,355.98
5	149.62	5	508.32	5	865.88	5	1,211.25	5	1,569.95	5	1,928.65	5	2,287.35	5	2,646.05	5	3,004.75	5	3,363.45
1/4	157.10	1/4	515.79	1/4	873.05	1/4	1,218.73	1/4	1,577.43	1/4	1,936.12	1/4	2,294.82	1/4	2,653.52	1/4	3,012.22	1/4	3,370.92
1/2	164.57	1/2	523.26	1/2	880.22	1/2	1,226.20	1/2	1,584.90	1/2	1,943.60	1/2	2,302.30	1/2	2,661.00	1/2	3,019.69	1/2	3,378.39
3/4	172.04	3/4	530.74	3/4	887.38	3/4	1,233.67	3/4	1,592.37	3/4	1,951.07	3/4	2,309.77	3/4	2,668.47	3/4	3,027.17	3/4	3,385.87
6	179.51	6	538.21	6	894.55	6	1,241.14	6	1,599.84	6	1,958.54	6	2,317.24	6	2,675.94	6	3,034.64	6	3,393.34
1/4	186.99	1/4	545.68	1/4	901.72	1/4	1,248.62	1/4	1,607.32	1/4	1,966.02	1/4	2,324.72	1/4	2,683.41	1/4	3,042.11	1/4	3,400.81
1/2	194.46	1/2	553.15	1/2	908.88	1/2	1,256.09	1/2	1,614.79	1/2	1,973.49	1/2	2,332.19	1/2	2,690.89	1/2	3,049.59	1/2	3,408.29
3/4	201.93	3/4	560.63	3/4	916.05	3/4	1,263.56	3/4	1,622.26	3/4	1,980.96	3/4	2,339.66	3/4	2,698.36	3/4	3,057.06	3/4	3,415.76
7	209.40	7	568.10	7	923.21	7	1,271.04	7	1,629.74	7	1,988.43	7	2,347.13	7	2,705.83	7	3,064.53	7	3,423.23
1/4	216.88	1/4	575.57	1/4	930.38	1/4	1,278.51	1/4	1,637.21	1/4	1,995.91	1/4	2,354.61	1/4	2,713.31	1/4	3,072.01	1/4	3,430.70
1/2	224.35	1/2	583.04	1/2	937.55	1/2	1,285.98	1/2	1,644.68	1/2	2,003.38	1/2	2,362.08	1/2	2,720.78	1/2	3,079.48	1/2	3,438.18
3/4	231.82	3/4	590.52	3/4	944.71	3/4	1,293.45	3/4	1,652.15	3/4	2,010.85	3/4	2,369.55	3/4	2,728.25	3/4	3,086.95	3/4	3,445.65
8	239.30	8	597.99	8	951.88	8	1,300.93	8	1,659.63	8	2,018.33	8	2,377.03	8	2,735.72	8	3,094.42	8	3,453.12
1/4	246.77	1/4	605.46	1/4	959.05	1/4	1,308.40	1/4	1,667.10	1/4	2,025.80	1/4	2,384.50	1/4	2,743.20	1/4	3,101.90	1/4	3,460.60
1/2	254.24	1/2	612.94	1/2	966.21	1/2	1,315.87	1/2	1,674.57	1/2	2,033.27	1/2	2,391.97	1/2	2,750.67	1/2	3,109.37	1/2	3,468.07
3/4	261.71	3/4	620.41	3/4	973.38	3/4	1,323.35	3/4	1,682.05	3/4	2,040.74	3/4	2,399.44	3/4	2,758.14	3/4	3,116.84	3/4	3,475.54
9	269.19	9	627.88	9	980.54	9	1,330.82	9	1,689.52	9	2,048.22	9	2,406.92	9	2,765.62	9	3,124.32	9	3,483.01
1/4	276.66	1/4	635.35	1/4	987.71	1/4	1,338.29	1/4	1,696.99	1/4	2,055.69	1/4	2,414.39	1/4	2,773.09	1/4	3,131.79	1/4	3,490.49
1/2	284.13	1/2	642.83	1/2	994.88	1/2	1,345.77	1/2	1,704.46	1/2	2,063.16	1/2	2,421.86	1/2	2,780.56	1/2	3,139.26	1/2	3,497.96
3/4	291.61	3/4	650.30	3/4	1,002.04	3/4	1,353.24	3/4	1,711.94	3/4	2,070.64	3/4	2,429.34	3/4	2,788.03	3/4	3,146.73	3/4	3,505.43
10	299.08	10	657.77	10	1,009.21	10	1,360.71	10	1,719.41	10	2,078.11	10	2,436.81	10	2,795.51	10	3,154.21	10	3,512.91
1/4	306.55	1/4	665.25	1/4	1,016.37	1/4	1,368.18	1/4	1,726.88	1/4	2,085.58	1/4	2,444.28	1/4	2,802.98	1/4	3,161.68	1/4	3,520.38
1/2	314.02	1/2	672.72	1/2	1,023.54	1/2	1,375.66	1/2	1,734.36	1/2	2,093.06	1/2	2,451.75	1/2	2,810.45	1/2	3,169.15	1/2	3,527.85
3/4	321.50	3/4	680.19	3/4	1,030.71	3/4	1,383.13	3/4	1,741.83	3/4	2,100.53	3/4	2,459.23	3/4	2,817.93	3/4	3,176.63	3/4	3,535.32
11	328.97	11	687.66	11	1,037.87	11	1,390.60	11	1,749.30	11	2,108.00	11	2,466.70	11	2,825.40	11	3,184.10	11	3,542.80
1/4	336.44	1/4	695.14	1/4	1,045.04	1/4	1,398.08	1/4	1,756.77	1/4	2,115.47	1/4	2,474.17	1/4	2,832.87	1/4	3,191.57	1/4	3,550.27
1/2	343.92	1/2	702.61	1/2	1,052.21	1/2	1,405.55	1/2	1,764.25	1/2	2,122.95	1/2	2,481.65	1/2	2,840.35	1/2	3,199.04	1/2	3,557.74
3/4	351.39	3/4	710.08	3/4	1,059.37	3/4	1,413.02	3/4	1,771.72	3/4	2,130.42	3/4	2,489.12	3/4	2,847.82	3/4	3,206.52	3/4	3,565.22

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 INNAGE 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 "E2MS 311"

2 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,572.69	0	3,931.39	0	4,289.38	0	4,647.02	0	5,003.01	0		0		0		0		0	
1/4	3,580.16	1/4	3,938.86	1/4	4,296.83	1/4	4,654.47	1/4	5,010.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.64	1/2	3,946.33	1/2	4,304.28	1/2	4,661.92	1/2	5,017.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,595.11	3/4	3,953.81	3/4	4,311.73	3/4	4,669.37	3/4	5,024.95	3/4		3/4		3/4		3/4		3/4	
1	3,602.58	1	3,961.28	1	4,319.18	1	4,676.82	1	5,032.27	1		1		1		1		1	
1/4	3,610.05	1/4	3,968.75	1/4	4,326.63	1/4	4,684.27	1/4	5,038.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,617.53	1/2	3,976.23	1/2	4,334.09	1/2	4,691.72	1/2	5,045.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,625.00	3/4	3,983.70	3/4	4,341.54	3/4	4,699.17	3/4	5,051.62	3/4		3/4		3/4		3/4		3/4	
2	3,632.47	2	3,991.17	2	4,348.99	2	4,706.63	2	5,058.07	2		2		2		2		2	
1/4	3,639.95	1/4	3,998.64	1/4	4,356.44	1/4	4,714.08	1/4	5,063.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,647.42	1/2	4,006.12	1/2	4,363.89	1/2	4,721.53	1/2	5,068.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,654.89	3/4	4,013.59	3/4	4,371.34	3/4	4,728.98	3/4	5,073.69	3/4		3/4		3/4		3/4		3/4	
3	3,662.36	3	4,021.06	3	4,378.79	3	4,736.43	3	5,078.89	3		3		3		3		3	
1/4	3,669.84	1/4	4,028.54	1/4	4,386.24	1/4	4,743.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,677.31	1/2	4,036.01	1/2	4,393.69	1/2	4,751.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,684.78	3/4	4,043.48	3/4	4,401.14	3/4	4,758.78	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,692.26	4	4,050.96	4	4,408.59	4	4,766.23	4		4		4		4		4		4	
1/4	3,699.73	1/4	4,058.41	1/4	4,416.04	1/4	4,773.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,707.20	1/2	4,065.86	1/2	4,423.50	1/2	4,781.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.67	3/4	4,073.31	3/4	4,430.95	3/4	4,788.58	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,722.15	5	4,080.76	5	4,438.40	5	4,796.04	5		5		5		5		5		5	
1/4	3,729.62	1/4	4,088.21	1/4	4,445.85	1/4	4,803.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,737.09	1/2	4,095.66	1/2	4,453.30	1/2	4,810.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,744.57	3/4	4,103.11	3/4	4,460.75	3/4	4,818.39	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,752.04	6	4,110.56	6	4,468.20	6	4,825.84	6		6		6		6		6		6	
1/4	3,759.51	1/4	4,118.01	1/4	4,475.65	1/4	4,833.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,766.98	1/2	4,125.46	1/2	4,483.10	1/2	4,840.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,774.46	3/4	4,132.91	3/4	4,490.55	3/4	4,847.99	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,781.93	7	4,140.36	7	4,498.00	7	4,855.38	7		7		7		7		7		7	
1/4	3,789.40	1/4	4,147.82	1/4	4,505.45	1/4	4,862.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,796.88	1/2	4,155.27	1/2	4,512.90	1/2	4,870.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.35	3/4	4,162.72	3/4	4,520.36	3/4	4,877.54	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,811.82	8	4,170.17	8	4,527.81	8	4,884.92	8		8		8		8		8		8	
1/4	3,819.30	1/4	4,177.62	1/4	4,535.26	1/4	4,892.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,826.77	1/2	4,185.07	1/2	4,542.71	1/2	4,899.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,834.24	3/4	4,192.52	3/4	4,550.16	3/4	4,907.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,841.71	9	4,199.97	9	4,557.61	9	4,914.46	9		9		9		9		9		9	
1/4	3,849.19	1/4	4,207.42	1/4	4,565.06	1/4	4,921.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,856.66	1/2	4,214.87	1/2	4,572.51	1/2	4,929.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,864.13	3/4	4,222.32	3/4	4,579.96	3/4	4,936.62	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,871.61	10	4,229.77	10	4,587.41	10	4,944.00	10		10		10		10		10		10	
1/4	3,879.08	1/4	4,237.23	1/4	4,594.86	1/4	4,951.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,886.55	1/2	4,244.68	1/2	4,602.31	1/2	4,958.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,894.02	3/4	4,252.13	3/4	4,609.77	3/4	4,966.15	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,901.50	11	4,259.58	11	4,617.22	11	4,973.53	11		11		11		11		11		11	
1/4	3,908.97	1/4	4,267.03	1/4	4,624.67	1/4	4,980.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,916.44	1/2	4,274.48	1/2	4,632.12	1/2	4,988.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,923.92	3/4	4,281.93	3/4	4,639.57	3/4	4,995.64	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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

BARGE "E2MS 311"

2 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	15.32	0	358.99	0	717.82	0	1,076.25	0	1,434.98	0	1,793.80	0	2,152.63	0	2,511.46	0	2,870.23	0	3,228.95
1/4	19.99	1/4	366.47	1/4	725.30	1/4	1,083.71	1/4	1,442.45	1/4	1,801.28	1/4	2,160.11	1/4	2,518.94	1/4	2,877.70	1/4	3,236.43
1/2	24.66	1/2	373.95	1/2	732.77	1/2	1,091.17	1/2	1,449.93	1/2	1,808.76	1/2	2,167.58	1/2	2,526.41	1/2	2,885.18	1/2	3,243.90
3/4	29.33	3/4	381.42	3/4	740.25	3/4	1,098.63	3/4	1,457.40	3/4	1,816.23	3/4	2,175.06	3/4	2,533.89	3/4	2,892.65	3/4	3,251.37
1	34.00	1	388.90	1	747.72	1	1,106.09	1	1,464.88	1	1,823.71	1	2,182.54	1	2,541.36	1	2,900.12	1	3,258.85
1/4	40.54	1/4	396.37	1/4	755.20	1/4	1,113.56	1/4	1,472.35	1/4	1,831.18	1/4	2,190.01	1/4	2,548.84	1/4	2,907.60	1/4	3,266.32
1/2	47.08	1/2	403.85	1/2	762.68	1/2	1,121.03	1/2	1,479.83	1/2	1,838.66	1/2	2,197.49	1/2	2,556.32	1/2	2,915.07	1/2	3,273.79
3/4	53.62	3/4	411.32	3/4	770.15	3/4	1,128.50	3/4	1,487.30	3/4	1,846.13	3/4	2,204.96	3/4	2,563.79	3/4	2,922.54	3/4	3,281.27
2	60.16	2	418.80	2	777.63	2	1,135.97	2	1,494.78	2	1,853.61	2	2,212.44	2	2,571.27	2	2,930.02	2	3,288.74
1/4	67.60	1/4	426.27	1/4	785.10	1/4	1,143.44	1/4	1,502.26	1/4	1,861.08	1/4	2,219.91	1/4	2,578.74	1/4	2,937.49	1/4	3,296.21
1/2	75.04	1/2	433.75	1/2	792.58	1/2	1,150.91	1/2	1,509.73	1/2	1,868.56	1/2	2,227.39	1/2	2,586.22	1/2	2,944.96	1/2	3,303.69
3/4	82.48	3/4	441.23	3/4	800.05	3/4	1,158.38	3/4	1,517.21	3/4	1,876.04	3/4	2,234.86	3/4	2,593.69	3/4	2,952.44	3/4	3,311.16
3	89.92	3	448.70	3	807.53	3	1,165.85	3	1,524.68	3	1,883.51	3	2,242.34	3	2,601.17	3	2,959.91	3	3,318.63
1/4	97.38	1/4	456.18	1/4	815.01	1/4	1,173.33	1/4	1,532.16	1/4	1,890.99	1/4	2,249.82	1/4	2,608.64	1/4	2,967.38	1/4	3,326.11
1/2	104.85	1/2	463.65	1/2	822.48	1/2	1,180.81	1/2	1,539.63	1/2	1,898.46	1/2	2,257.29	1/2	2,616.12	1/2	2,974.86	1/2	3,333.58
3/4	112.31	3/4	471.13	3/4	829.96	3/4	1,188.28	3/4	1,547.11	3/4	1,905.94	3/4	2,264.77	3/4	2,623.60	3/4	2,982.33	3/4	3,341.05
4	119.78	4	478.60	4	837.43	4	1,195.76	4	1,554.59	4	1,913.41	4	2,272.24	4	2,631.07	4	2,989.80	4	3,348.53
1/4	127.25	1/4	486.08	1/4	844.91	1/4	1,203.23	1/4	1,562.06	1/4	1,920.89	1/4	2,279.72	1/4	2,638.55	1/4	2,997.28	1/4	3,356.00
1/2	134.73	1/2	493.55	1/2	852.38	1/2	1,210.71	1/2	1,569.54	1/2	1,928.37	1/2	2,287.19	1/2	2,646.02	1/2	3,004.75	1/2	3,363.47
3/4	142.20	3/4	501.03	3/4	859.86	3/4	1,218.18	3/4	1,577.01	3/4	1,935.84	3/4	2,294.67	3/4	2,653.50	3/4	3,012.22	3/4	3,370.95
5	149.68	5	508.51	5	867.33	5	1,225.66	5	1,584.49	5	1,943.32	5	2,302.15	5	2,660.97	5	3,019.70	5	3,378.42
1/4	157.15	1/4	515.98	1/4	874.80	1/4	1,233.13	1/4	1,591.96	1/4	1,950.79	1/4	2,309.62	1/4	2,668.45	1/4	3,027.17	1/4	3,385.89
1/2	164.63	1/2	523.46	1/2	882.26	1/2	1,240.61	1/2	1,599.44	1/2	1,958.27	1/2	2,317.10	1/2	2,675.92	1/2	3,034.64	1/2	3,393.37
3/4	172.10	3/4	530.93	3/4	889.72	3/4	1,248.09	3/4	1,606.91	3/4	1,965.74	3/4	2,324.57	3/4	2,683.39	3/4	3,042.12	3/4	3,400.84
6	179.58	6	538.41	6	897.18	6	1,255.56	6	1,614.39	6	1,973.22	6	2,332.05	6	2,690.87	6	3,049.59	6	3,408.31
1/4	187.06	1/4	545.88	1/4	904.64	1/4	1,263.04	1/4	1,621.87	1/4	1,980.69	1/4	2,339.52	1/4	2,698.34	1/4	3,057.06	1/4	3,415.79
1/2	194.53	1/2	553.36	1/2	912.10	1/2	1,270.51	1/2	1,629.34	1/2	1,988.17	1/2	2,347.00	1/2	2,705.81	1/2	3,064.54	1/2	3,423.26
3/4	202.01	3/4	560.83	3/4	919.56	3/4	1,277.99	3/4	1,636.82	3/4	1,995.65	3/4	2,354.47	3/4	2,713.29	3/4	3,072.01	3/4	3,430.73
7	209.48	7	568.31	7	927.02	7	1,285.46	7	1,644.29	7	2,003.12	7	2,361.95	7	2,720.76	7	3,079.48	7	3,438.21
1/4	216.96	1/4	575.79	1/4	934.49	1/4	1,292.94	1/4	1,651.77	1/4	2,010.60	1/4	2,369.43	1/4	2,728.23	1/4	3,086.96	1/4	3,445.68
1/2	224.43	1/2	583.26	1/2	941.95	1/2	1,300.41	1/2	1,659.24	1/2	2,018.07	1/2	2,376.90	1/2	2,735.71	1/2	3,094.43	1/2	3,453.15
3/4	231.91	3/4	590.74	3/4	949.41	3/4	1,307.89	3/4	1,666.72	3/4	2,025.55	3/4	2,384.38	3/4	2,743.18	3/4	3,101.90	3/4	3,460.63
8	239.38	8	598.21	8	956.87	8	1,315.37	8	1,674.19	8	2,033.02	8	2,391.85	8	2,750.65	8	3,109.38	8	3,468.10
1/4	246.86	1/4	605.69	1/4	964.33	1/4	1,322.84	1/4	1,681.67	1/4	2,040.50	1/4	2,399.33	1/4	2,758.13	1/4	3,116.85	1/4	3,475.57
1/2	254.34	1/2	613.16	1/2	971.79	1/2	1,330.32	1/2	1,689.15	1/2	2,047.97	1/2	2,406.80	1/2	2,765.60	1/2	3,124.32	1/2	3,483.05
3/4	261.81	3/4	620.64	3/4	979.25	3/4	1,337.79	3/4	1,696.62	3/4	2,055.45	3/4	2,414.28	3/4	2,773.07	3/4	3,131.80	3/4	3,490.52
9	269.29	9	628.12	9	986.71	9	1,345.27	9	1,704.10	9	2,062.93	9	2,421.75	9	2,780.55	9	3,139.27	9	3,497.99
1/4	276.76	1/4	635.59	1/4	994.17	1/4	1,352.74	1/4	1,711.57	1/4	2,070.40	1/4	2,429.23	1/4	2,788.02	1/4	3,146.74	1/4	3,505.47
1/2	284.24	1/2	643.07	1/2	1,001.64	1/2	1,360.22	1/2	1,719.05	1/2	2,077.88	1/2	2,436.71	1/2	2,795.50	1/2	3,154.22	1/2	3,512.94
3/4	291.71	3/4	650.54	3/4	1,009.10	3/4	1,367.70	3/4	1,726.52	3/4	2,085.35	3/4	2,444.18	3/4	2,802.97	3/4	3,161.69	3/4	3,520.41
10	299.19	10	658.02	10	1,016.56	10	1,375.17	10	1,734.00	10	2,092.83	10	2,451.66	10	2,810.44	10	3,169.17	10	3,527.89
1/4	306.66	1/4	665.49	1/4	1,024.02	1/4	1,382.65	1/4	1,741.48	1/4	2,100.30	1/4	2,459.13	1/4	2,817.92	1/4	3,176.64	1/4	3,535.36
1/2	314.14	1/2	672.97	1/2	1,031.48	1/2	1,390.12	1/2	1,748.95	1/2	2,107.78	1/2	2,466.61	1/2	2,825.39	1/2	3,184.11	1/2	3,542.84
3/4	321.62	3/4	680.44	3/4	1,038.94	3/4	1,397.60	3/4	1,756.43	3/4	2,115.26	3/4	2,474.08	3/4	2,832.86	3/4	3,191.59	3/4	3,550.31
11	329.09	11	687.92	11	1,046.40	11	1,405.07	11	1,763.90	11	2,122.73	11	2,481.56	11	2,840.34	11	3,199.06	11	3,557.78
1/4	336.57	1/4	695.40	1/4	1,053.86	1/4	1,412.55	1/4	1,771.38	1/4	2,130.21	1/4	2,489.04	1/4	2,847.81	1/4	3,206.53	1/4	3,565.26
1/2	344.04	1/2	702.87	1/2	1,061.33	1/2	1,420.02	1/2	1,778.85	1/2	2,137.68	1/2	2,496.51	1/2	2,855.28	1/2	3,214.01	1/2	3,572.73
3/4	351.52	3/4	710.35	3/4	1,068.79	3/4	1,427.50	3/4	1,786.33	3/4	2,145.16	3/4	2,503.99	3/4	2,862.76	3/4	3,221.48	3/4	3,580.20

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 INNAGE 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 "E2MS 311"

2 STBD

INNAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,587.68	0	3,946.40	0	4,304.43	0	4,662.11	0	5,017.99	0		0		0		0		0	
1/4	3,595.15	1/4	3,953.87	1/4	4,311.88	1/4	4,669.56	1/4	5,025.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.62	1/2	3,961.35	1/2	4,319.33	1/2	4,677.01	1/2	5,032.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,610.10	3/4	3,968.82	3/4	4,326.78	3/4	4,684.46	3/4	5,039.92	3/4		3/4		3/4		3/4		3/4	
1	3,617.57	1	3,976.29	1	4,334.23	1	4,691.92	1	5,047.23	1		1		1		1		1	
1/4	3,625.04	1/4	3,983.77	1/4	4,341.69	1/4	4,699.37	1/4	5,053.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.52	1/2	3,991.24	1/2	4,349.14	1/2	4,706.82	1/2	5,060.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.99	3/4	3,998.71	3/4	4,356.59	3/4	4,714.27	3/4	5,066.57	3/4		3/4		3/4		3/4		3/4	
2	3,647.46	2	4,006.19	2	4,364.04	2	4,721.72	2	5,073.01	2		2		2		2		2	
1/4	3,654.94	1/4	4,013.66	1/4	4,371.49	1/4	4,729.17	1/4	5,078.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.41	1/2	4,021.13	1/2	4,378.94	1/2	4,736.63	1/2	5,083.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.88	3/4	4,028.61	3/4	4,386.40	3/4	4,744.08	3/4	5,088.61	3/4		3/4		3/4		3/4		3/4	
3	3,677.36	3	4,036.08	3	4,393.85	3	4,751.53	3	5,093.81	3		3		3		3		3	
1/4	3,684.83	1/4	4,043.55	1/4	4,401.30	1/4	4,758.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.30	1/2	4,051.03	1/2	4,408.75	1/2	4,766.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.78	3/4	4,058.50	3/4	4,416.20	3/4	4,773.88	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,707.25	4	4,065.97	4	4,423.65	4	4,781.34	4		4		4		4		4		4	
1/4	3,714.72	1/4	4,073.42	1/4	4,431.11	1/4	4,788.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.20	1/2	4,080.88	1/2	4,438.56	1/2	4,796.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,729.67	3/4	4,088.33	3/4	4,446.01	3/4	4,803.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,737.14	5	4,095.78	5	4,453.46	5	4,811.14	5		5		5		5		5		5	
1/4	3,744.62	1/4	4,103.23	1/4	4,460.91	1/4	4,818.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,752.09	1/2	4,110.68	1/2	4,468.36	1/2	4,826.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,759.56	3/4	4,118.13	3/4	4,475.82	3/4	4,833.50	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,767.04	6	4,125.59	6	4,483.27	6	4,840.95	6		6		6		6		6		6	
1/4	3,774.51	1/4	4,133.04	1/4	4,490.72	1/4	4,848.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,781.98	1/2	4,140.49	1/2	4,498.17	1/2	4,855.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.46	3/4	4,147.94	3/4	4,505.62	3/4	4,863.09	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,796.93	7	4,155.39	7	4,513.07	7	4,870.46	7		7		7		7		7		7	
1/4	3,804.40	1/4	4,162.85	1/4	4,520.53	1/4	4,877.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.88	1/2	4,170.30	1/2	4,527.98	1/2	4,885.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.35	3/4	4,177.75	3/4	4,535.43	3/4	4,892.60	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,826.82	8	4,185.20	8	4,542.88	8	4,899.98	8		8		8		8		8		8	
1/4	3,834.30	1/4	4,192.65	1/4	4,550.33	1/4	4,907.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.77	1/2	4,200.10	1/2	4,557.79	1/2	4,914.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,849.24	3/4	4,207.56	3/4	4,565.24	3/4	4,922.11	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,856.72	9	4,215.01	9	4,572.69	9	4,929.49	9		9		9		9		9		9	
1/4	3,864.19	1/4	4,222.46	1/4	4,580.14	1/4	4,936.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.66	1/2	4,229.91	1/2	4,587.59	1/2	4,944.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,879.14	3/4	4,237.36	3/4	4,595.04	3/4	4,951.63	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,886.61	10	4,244.81	10	4,602.50	10	4,959.01	10		10		10		10		10		10	
1/4	3,894.08	1/4	4,252.27	1/4	4,609.95	1/4	4,966.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.56	1/2	4,259.72	1/2	4,617.40	1/2	4,973.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.03	3/4	4,267.17	3/4	4,624.85	3/4	4,981.15	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,916.50	11	4,274.62	11	4,632.30	11	4,988.53	11		11		11		11		11		11	
1/4	3,923.98	1/4	4,282.07	1/4	4,639.75	1/4	4,995.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.45	1/2	4,289.52	1/2	4,647.21	1/2	5,003.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.93	3/4	4,296.98	3/4	4,654.66	3/4	5,010.62	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

3 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.26	0	357.56	0	714.49	0	1,061.77	0	1,414.70	0	1,771.32	0	2,127.22	0	2,483.83	0	2,840.16	0	3,196.46
1/4	19.91	1/4	365.00	1/4	721.92	1/4	1,068.91	1/4	1,422.13	1/4	1,778.74	1/4	2,134.65	1/4	2,491.26	1/4	2,847.58	1/4	3,203.85
1/2	24.57	1/2	372.43	1/2	729.36	1/2	1,076.05	1/2	1,429.56	1/2	1,786.15	1/2	2,142.08	1/2	2,498.68	1/2	2,855.00	1/2	3,211.25
3/4	29.22	3/4	379.87	3/4	736.80	3/4	1,083.19	3/4	1,436.99	3/4	1,793.57	3/4	2,149.51	3/4	2,506.11	3/4	2,862.43	3/4	3,218.64
1	33.88	1	387.30	1	744.23	1	1,090.33	1	1,444.42	1	1,800.98	1	2,156.93	1	2,513.53	1	2,869.85	1	3,226.04
1/4	40.39	1/4	394.74	1/4	751.67	1/4	1,097.54	1/4	1,451.86	1/4	1,808.40	1/4	2,164.36	1/4	2,520.95	1/4	2,877.27	1/4	3,233.43
1/2	46.91	1/2	402.18	1/2	759.10	1/2	1,104.75	1/2	1,459.29	1/2	1,815.81	1/2	2,171.79	1/2	2,528.38	1/2	2,884.69	1/2	3,240.83
3/4	53.42	3/4	409.61	3/4	766.54	3/4	1,111.96	3/4	1,466.72	3/4	1,823.23	3/4	2,179.22	3/4	2,535.80	3/4	2,892.12	3/4	3,248.22
2	59.94	2	417.05	2	773.98	2	1,119.17	2	1,474.15	2	1,830.64	2	2,186.64	2	2,543.23	2	2,899.54	2	3,255.62
1/4	67.35	1/4	424.48	1/4	781.41	1/4	1,126.38	1/4	1,481.58	1/4	1,838.06	1/4	2,194.07	1/4	2,550.65	1/4	2,906.96	1/4	3,263.01
1/2	74.76	1/2	431.92	1/2	788.85	1/2	1,133.59	1/2	1,489.01	1/2	1,845.47	1/2	2,201.50	1/2	2,558.08	1/2	2,914.39	1/2	3,270.40
3/4	82.17	3/4	439.36	3/4	796.28	3/4	1,140.80	3/4	1,496.44	3/4	1,852.88	3/4	2,208.93	3/4	2,565.50	3/4	2,921.81	3/4	3,277.80
3	89.59	3	446.79	3	803.72	3	1,148.01	3	1,503.87	3	1,860.30	3	2,216.35	3	2,572.92	3	2,929.23	3	3,285.19
1/4	97.02	1/4	454.23	1/4	811.09	1/4	1,155.24	1/4	1,511.30	1/4	1,867.71	1/4	2,223.78	1/4	2,580.35	1/4	2,936.66	1/4	3,292.59
1/2	104.46	1/2	461.66	1/2	818.47	1/2	1,162.46	1/2	1,518.73	1/2	1,875.13	1/2	2,231.21	1/2	2,587.77	1/2	2,944.08	1/2	3,299.98
3/4	111.90	3/4	469.10	3/4	825.84	3/4	1,169.68	3/4	1,526.17	3/4	1,882.54	3/4	2,238.64	3/4	2,595.20	3/4	2,951.50	3/4	3,307.38
4	119.33	4	476.54	4	833.21	4	1,176.91	4	1,533.60	4	1,889.96	4	2,246.07	4	2,602.62	4	2,958.92	4	3,314.77
1/4	126.78	1/4	483.97	1/4	840.37	1/4	1,184.34	1/4	1,541.03	1/4	1,897.37	1/4	2,253.49	1/4	2,610.04	1/4	2,966.35	1/4	3,322.17
1/2	134.23	1/2	491.41	1/2	847.54	1/2	1,191.77	1/2	1,548.46	1/2	1,904.79	1/2	2,260.92	1/2	2,617.47	1/2	2,973.77	1/2	3,329.56
3/4	141.67	3/4	498.84	3/4	854.70	3/4	1,199.20	3/4	1,555.89	3/4	1,912.20	3/4	2,268.35	3/4	2,624.89	3/4	2,981.19	3/4	3,336.96
5	149.12	5	506.28	5	861.86	5	1,206.63	5	1,563.32	5	1,919.62	5	2,275.78	5	2,632.32	5	2,988.62	5	3,344.35
1/4	156.57	1/4	513.72	1/4	869.00	1/4	1,214.06	1/4	1,570.75	1/4	1,927.03	1/4	2,283.21	1/4	2,639.74	1/4	2,996.04	1/4	3,351.74
1/2	164.01	1/2	521.15	1/2	876.14	1/2	1,221.49	1/2	1,578.18	1/2	1,934.45	1/2	2,290.64	1/2	2,647.16	1/2	3,003.46	1/2	3,359.13
3/4	171.46	3/4	528.59	3/4	883.28	3/4	1,228.93	3/4	1,585.61	3/4	1,941.86	3/4	2,298.08	3/4	2,654.58	3/4	3,010.88	3/4	3,366.52
6	178.91	6	536.02	6	890.42	6	1,236.36	6	1,593.04	6	1,949.28	6	2,305.51	6	2,662.01	6	3,018.31	6	3,373.91
1/4	186.36	1/4	543.46	1/4	897.56	1/4	1,243.79	1/4	1,600.48	1/4	1,956.69	1/4	2,312.94	1/4	2,669.43	1/4	3,025.73	1/4	3,381.29
1/2	193.81	1/2	550.90	1/2	904.70	1/2	1,251.22	1/2	1,607.91	1/2	1,964.11	1/2	2,320.38	1/2	2,676.85	1/2	3,033.15	1/2	3,388.67
3/4	201.25	3/4	558.33	3/4	911.84	3/4	1,258.65	3/4	1,615.34	3/4	1,971.52	3/4	2,327.81	3/4	2,684.28	3/4	3,040.58	3/4	3,396.06
7	208.70	7	565.77	7	918.98	7	1,266.08	7	1,622.77	7	1,978.93	7	2,335.24	7	2,691.70	7	3,048.00	7	3,403.44
1/4	216.15	1/4	573.20	1/4	926.12	1/4	1,273.51	1/4	1,630.20	1/4	1,986.35	1/4	2,342.68	1/4	2,699.12	1/4	3,055.42	1/4	3,410.59
1/2	223.60	1/2	580.64	1/2	933.26	1/2	1,280.94	1/2	1,637.63	1/2	1,993.76	1/2	2,350.11	1/2	2,706.55	1/2	3,062.84	1/2	3,417.75
3/4	231.04	3/4	588.08	3/4	940.40	3/4	1,288.37	3/4	1,645.06	3/4	2,001.18	3/4	2,357.54	3/4	2,713.97	3/4	3,070.27	3/4	3,424.90
8	238.49	8	595.51	8	947.54	8	1,295.80	8	1,652.49	8	2,008.59	8	2,364.98	8	2,721.39	8	3,077.69	8	3,432.05
1/4	245.94	1/4	602.95	1/4	954.68	1/4	1,303.24	1/4	1,659.92	1/4	2,016.01	1/4	2,372.41	1/4	2,728.81	1/4	3,085.11	1/4	3,438.73
1/2	253.39	1/2	610.38	1/2	961.82	1/2	1,310.67	1/2	1,667.35	1/2	2,023.42	1/2	2,379.84	1/2	2,736.24	1/2	3,092.54	1/2	3,445.41
3/4	260.83	3/4	617.82	3/4	968.96	3/4	1,318.10	3/4	1,674.79	3/4	2,030.84	3/4	2,387.27	3/4	2,743.66	3/4	3,099.96	3/4	3,452.08
9	268.28	9	625.26	9	976.10	9	1,325.53	9	1,682.22	9	2,038.25	9	2,394.71	9	2,751.08	9	3,107.38	9	3,458.76
1/4	275.73	1/4	632.69	1/4	983.23	1/4	1,332.96	1/4	1,689.65	1/4	2,045.66	1/4	2,402.14	1/4	2,758.51	1/4	3,114.80	1/4	3,464.96
1/2	283.18	1/2	640.13	1/2	990.37	1/2	1,340.39	1/2	1,697.08	1/2	2,053.07	1/2	2,409.57	1/2	2,765.93	1/2	3,122.23	1/2	3,471.16
3/4	290.62	3/4	647.56	3/4	997.51	3/4	1,347.82	3/4	1,704.51	3/4	2,060.48	3/4	2,417.01	3/4	2,773.35	3/4	3,129.65	3/4	3,477.36
10	298.07	10	655.00	10	1,004.65	10	1,355.25	10	1,711.94	10	2,067.88	10	2,424.44	10	2,780.77	10	3,137.07	10	3,483.56
1/4	305.51	1/4	662.44	1/4	1,011.79	1/4	1,362.68	1/4	1,719.37	1/4	2,075.29	1/4	2,431.87	1/4	2,788.20	1/4	3,144.50	1/4	3,489.29
1/2	312.94	1/2	669.87	1/2	1,018.93	1/2	1,370.11	1/2	1,726.80	1/2	2,082.70	1/2	2,439.29	1/2	2,795.62	1/2	3,151.92	1/2	3,495.02
3/4	320.38	3/4	677.31	3/4	1,026.07	3/4	1,377.55	3/4	1,734.23	3/4	2,090.11	3/4	2,446.71	3/4	2,803.04	3/4	3,159.34	3/4	3,500.75
11	327.82	11	684.74	11	1,033.21	11	1,384.98	11	1,741.66	11	2,097.51	11	2,454.14	11	2,810.47	11	3,166.77	11	3,506.48
1/4	335.25	1/4	692.18	1/4	1,040.35	1/4	1,392.41	1/4	1,749.08	1/4	2,104.94	1/4	2,461.56	1/4	2,817.89	1/4	3,174.19	1/4	3,511.74
1/2	342.69	1/2	699.62	1/2	1,047.49	1/2	1,399.84	1/2	1,756.49	1/2	2,112.37	1/2	2,468.99	1/2	2,825.31	1/2	3,181.61	1/2	3,516.99
3/4	350.12	3/4	707.05	3/4	1,054.63	3/4	1,407.27	3/4	1,763.91	3/4	2,119.80	3/4	2,476.41	3/4	2,832.73	3/4	3,189.03	3/4	3,522.24

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 INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 311"

3 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,527.50	0	3,747.90	0	3,966.94	0	4,185.77	0	4,403.51	0		0		0		0		0	
1/4	3,532.31	1/4	3,752.47	1/4	3,971.49	1/4	4,190.33	1/4	4,407.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,537.12	1/2	3,757.04	1/2	3,976.05	1/2	4,194.89	1/2	4,412.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,541.93	3/4	3,761.61	3/4	3,980.61	3/4	4,199.45	3/4	4,416.92	3/4		3/4		3/4		3/4		3/4	
1	3,546.74	1	3,766.18	1	3,985.17	1	4,204.01	1	4,421.39	1		1		1		1		1	
1/4	3,551.31	1/4	3,770.76	1/4	3,989.73	1/4	4,208.57	1/4	4,425.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.89	1/2	3,775.33	1/2	3,994.29	1/2	4,213.13	1/2	4,429.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,560.46	3/4	3,779.90	3/4	3,998.85	3/4	4,217.69	3/4	4,433.22	3/4		3/4		3/4		3/4		3/4	
2	3,565.03	2	3,784.47	2	4,003.41	2	4,222.25	2	4,437.17	2		2		2		2		2	
1/4	3,569.60	1/4	3,789.04	1/4	4,007.97	1/4	4,226.80	1/4	4,440.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,574.17	1/2	3,793.61	1/2	4,012.53	1/2	4,231.36	1/2	4,443.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,578.74	3/4	3,798.19	3/4	4,017.09	3/4	4,235.92	3/4	4,446.71	3/4		3/4		3/4		3/4		3/4	
3	3,583.32	3	3,802.76	3	4,021.64	3	4,240.48	3	4,449.89	3		3		3		3		3	
1/4	3,587.89	1/4	3,807.33	1/4	4,026.20	1/4	4,245.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,592.46	1/2	3,811.90	1/2	4,030.76	1/2	4,249.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,597.03	3/4	3,816.47	3/4	4,035.32	3/4	4,254.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,601.60	4	3,821.04	4	4,039.88	4	4,258.72	4		4		4		4		4		4	
1/4	3,606.17	1/4	3,825.60	1/4	4,044.44	1/4	4,263.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,610.75	1/2	3,830.16	1/2	4,049.00	1/2	4,267.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,615.32	3/4	3,834.72	3/4	4,053.56	3/4	4,272.40	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,619.89	5	3,839.28	5	4,058.12	5	4,276.95	5		5		5		5		5		5	
1/4	3,624.46	1/4	3,843.84	1/4	4,062.68	1/4	4,281.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,629.03	1/2	3,848.40	1/2	4,067.24	1/2	4,286.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,633.60	3/4	3,852.96	3/4	4,071.79	3/4	4,290.63	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,638.18	6	3,857.52	6	4,076.35	6	4,295.19	6		6		6		6		6		6	
1/4	3,642.75	1/4	3,862.08	1/4	4,080.91	1/4	4,299.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,647.32	1/2	3,866.64	1/2	4,085.47	1/2	4,304.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,651.89	3/4	3,871.19	3/4	4,090.03	3/4	4,308.73	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,656.46	7	3,875.75	7	4,094.59	7	4,313.25	7		7		7		7		7		7	
1/4	3,661.03	1/4	3,880.31	1/4	4,099.15	1/4	4,317.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,665.61	1/2	3,884.87	1/2	4,103.71	1/2	4,322.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,670.18	3/4	3,889.43	3/4	4,108.27	3/4	4,326.79	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,674.75	8	3,893.99	8	4,112.83	8	4,331.30	8		8		8		8		8		8	
1/4	3,679.32	1/4	3,898.55	1/4	4,117.39	1/4	4,335.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,683.89	1/2	3,903.11	1/2	4,121.94	1/2	4,340.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,688.46	3/4	3,907.67	3/4	4,126.50	3/4	4,344.84	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,693.04	9	3,912.23	9	4,131.06	9	4,349.36	9		9		9		9		9		9	
1/4	3,697.61	1/4	3,916.79	1/4	4,135.62	1/4	4,353.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.18	1/2	3,921.34	1/2	4,140.18	1/2	4,358.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,706.75	3/4	3,925.90	3/4	4,144.74	3/4	4,362.90	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,711.32	10	3,930.46	10	4,149.30	10	4,367.42	10		10		10		10		10		10	
1/4	3,715.90	1/4	3,935.02	1/4	4,153.86	1/4	4,371.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.47	1/2	3,939.58	1/2	4,158.42	1/2	4,376.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,725.04	3/4	3,944.14	3/4	4,162.98	3/4	4,380.96	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,729.61	11	3,948.70	11	4,167.54	11	4,385.48	11		11		11		11		11		11	
1/4	3,734.18	1/4	3,953.26	1/4	4,172.09	1/4	4,389.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,738.75	1/2	3,957.82	1/2	4,176.65	1/2	4,394.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,743.33	3/4	3,962.38	3/4	4,181.21	3/4	4,399.00	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

3 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.28	0	358.02	0	715.88	0	1,073.34	0	1,431.10	0	1,788.97	0	2,146.84	0	2,504.63	0	2,862.02	0	3,219.40
1/4	19.94	1/4	365.48	1/4	723.34	1/4	1,080.78	1/4	1,438.56	1/4	1,796.43	1/4	2,154.29	1/4	2,512.08	1/4	2,869.47	1/4	3,226.81
1/2	24.59	1/2	372.94	1/2	730.79	1/2	1,088.22	1/2	1,446.01	1/2	1,803.88	1/2	2,161.75	1/2	2,519.52	1/2	2,876.91	1/2	3,234.23
3/4	29.25	3/4	380.39	3/4	738.25	3/4	1,095.66	3/4	1,453.47	3/4	1,811.34	3/4	2,169.21	3/4	2,526.97	3/4	2,884.36	3/4	3,241.65
1	33.91	1	387.85	1	745.71	1	1,103.10	1	1,460.92	1	1,818.79	1	2,176.66	1	2,534.42	1	2,891.80	1	3,249.06
1/4	40.44	1/4	395.30	1/4	753.16	1/4	1,110.55	1/4	1,468.38	1/4	1,826.25	1/4	2,184.12	1/4	2,541.86	1/4	2,899.25	1/4	3,256.48
1/2	46.96	1/2	402.76	1/2	760.62	1/2	1,118.00	1/2	1,475.83	1/2	1,833.70	1/2	2,191.57	1/2	2,549.31	1/2	2,906.69	1/2	3,263.90
3/4	53.48	3/4	410.21	3/4	768.07	3/4	1,125.45	3/4	1,483.29	3/4	1,841.16	3/4	2,199.03	3/4	2,556.75	3/4	2,914.14	3/4	3,271.31
2	60.00	2	417.67	2	775.53	2	1,132.90	2	1,490.75	2	1,848.61	2	2,206.48	2	2,564.20	2	2,921.58	2	3,278.73
1/4	67.42	1/4	425.12	1/4	782.98	1/4	1,140.35	1/4	1,498.20	1/4	1,856.07	1/4	2,213.94	1/4	2,571.65	1/4	2,929.03	1/4	3,286.15
1/2	74.84	1/2	432.58	1/2	790.44	1/2	1,147.80	1/2	1,505.66	1/2	1,863.53	1/2	2,221.39	1/2	2,579.09	1/2	2,936.47	1/2	3,293.56
3/4	82.26	3/4	440.03	3/4	797.89	3/4	1,155.25	3/4	1,513.11	3/4	1,870.98	3/4	2,228.85	3/4	2,586.54	3/4	2,943.92	3/4	3,300.98
3	89.68	3	447.49	3	805.35	3	1,162.70	3	1,520.57	3	1,878.44	3	2,236.31	3	2,593.98	3	2,951.37	3	3,308.40
1/4	97.12	1/4	454.94	1/4	812.80	1/4	1,170.16	1/4	1,528.02	1/4	1,885.89	1/4	2,243.76	1/4	2,601.43	1/4	2,958.81	1/4	3,315.81
1/2	104.57	1/2	462.40	1/2	820.26	1/2	1,177.61	1/2	1,535.48	1/2	1,893.35	1/2	2,251.22	1/2	2,608.88	1/2	2,966.26	1/2	3,323.23
3/4	112.01	3/4	469.86	3/4	827.71	3/4	1,185.07	3/4	1,542.94	3/4	1,900.80	3/4	2,258.67	3/4	2,616.32	3/4	2,973.70	3/4	3,330.65
4	119.46	4	477.31	4	835.17	4	1,192.52	4	1,550.39	4	1,908.26	4	2,266.13	4	2,623.77	4	2,981.15	4	3,338.06
1/4	126.91	1/4	484.77	1/4	842.63	1/4	1,199.98	1/4	1,557.85	1/4	1,915.72	1/4	2,273.58	1/4	2,631.22	1/4	2,988.59	1/4	3,345.48
1/2	134.37	1/2	492.22	1/2	850.08	1/2	1,207.43	1/2	1,565.30	1/2	1,923.17	1/2	2,281.04	1/2	2,638.66	1/2	2,996.04	1/2	3,352.90
3/4	141.82	3/4	499.68	3/4	857.54	3/4	1,214.89	3/4	1,572.76	3/4	1,930.63	3/4	2,288.50	3/4	2,646.11	3/4	3,003.48	3/4	3,360.31
5	149.27	5	507.13	5	864.99	5	1,222.34	5	1,580.21	5	1,938.08	5	2,295.95	5	2,653.55	5	3,010.93	5	3,367.73
1/4	156.73	1/4	514.59	1/4	872.43	1/4	1,229.80	1/4	1,587.67	1/4	1,945.54	1/4	2,303.41	1/4	2,661.00	1/4	3,018.37	1/4	3,375.14
1/2	164.18	1/2	522.04	1/2	879.87	1/2	1,237.26	1/2	1,595.12	1/2	1,952.99	1/2	2,310.86	1/2	2,668.44	1/2	3,025.82	1/2	3,382.55
3/4	171.64	3/4	529.50	3/4	887.31	3/4	1,244.71	3/4	1,602.58	3/4	1,960.45	3/4	2,318.32	3/4	2,675.89	3/4	3,033.26	3/4	3,389.97
6	179.09	6	536.95	6	894.76	6	1,252.17	6	1,610.04	6	1,967.90	6	2,325.77	6	2,683.33	6	3,040.71	6	3,397.38
1/4	186.55	1/4	544.41	1/4	902.20	1/4	1,259.62	1/4	1,617.49	1/4	1,975.36	1/4	2,333.23	1/4	2,690.78	1/4	3,048.15	1/4	3,404.78
1/2	194.01	1/2	551.86	1/2	909.64	1/2	1,267.08	1/2	1,624.95	1/2	1,982.82	1/2	2,340.68	1/2	2,698.23	1/2	3,055.60	1/2	3,412.19
3/4	201.46	3/4	559.32	3/4	917.08	3/4	1,274.53	3/4	1,632.40	3/4	1,990.27	3/4	2,348.14	3/4	2,705.67	3/4	3,063.04	3/4	3,419.59
7	208.92	7	566.78	7	924.52	7	1,281.99	7	1,639.86	7	1,997.73	7	2,355.60	7	2,713.12	7	3,070.49	7	3,426.99
1/4	216.37	1/4	574.23	1/4	931.96	1/4	1,289.44	1/4	1,647.31	1/4	2,005.18	1/4	2,363.05	1/4	2,720.56	1/4	3,077.94	1/4	3,434.17
1/2	223.83	1/2	581.69	1/2	939.40	1/2	1,296.90	1/2	1,654.77	1/2	2,012.64	1/2	2,370.51	1/2	2,728.01	1/2	3,085.38	1/2	3,441.35
3/4	231.28	3/4	589.14	3/4	946.84	3/4	1,304.36	3/4	1,662.22	3/4	2,020.09	3/4	2,377.96	3/4	2,735.45	3/4	3,092.83	3/4	3,448.52
8	238.74	8	596.60	8	954.28	8	1,311.81	8	1,669.68	8	2,027.55	8	2,385.42	8	2,742.90	8	3,100.27	8	3,455.70
1/4	246.19	1/4	604.05	1/4	961.72	1/4	1,319.27	1/4	1,677.14	1/4	2,035.00	1/4	2,392.87	1/4	2,750.34	1/4	3,107.72	1/4	3,462.40
1/2	253.65	1/2	611.51	1/2	969.16	1/2	1,326.72	1/2	1,684.59	1/2	2,042.46	1/2	2,400.33	1/2	2,757.79	1/2	3,115.16	1/2	3,469.09
3/4	261.10	3/4	618.96	3/4	976.60	3/4	1,334.18	3/4	1,692.05	3/4	2,049.92	3/4	2,407.78	3/4	2,765.23	3/4	3,122.61	3/4	3,475.79
9	268.56	9	626.42	9	984.05	9	1,341.63	9	1,699.50	9	2,057.37	9	2,415.24	9	2,772.68	9	3,130.05	9	3,482.49
1/4	276.01	1/4	633.87	1/4	991.49	1/4	1,349.09	1/4	1,706.96	1/4	2,064.83	1/4	2,422.70	1/4	2,780.12	1/4	3,137.50	1/4	3,488.71
1/2	283.47	1/2	641.33	1/2	998.93	1/2	1,356.55	1/2	1,714.41	1/2	2,072.28	1/2	2,430.15	1/2	2,787.57	1/2	3,144.94	1/2	3,494.92
3/4	290.93	3/4	648.78	3/4	1,006.37	3/4	1,364.00	3/4	1,721.87	3/4	2,079.74	3/4	2,437.61	3/4	2,795.01	3/4	3,152.39	3/4	3,501.14
10	298.38	10	656.24	10	1,013.81	10	1,371.46	10	1,729.33	10	2,087.19	10	2,445.06	10	2,802.46	10	3,159.83	10	3,507.36
1/4	305.84	1/4	663.70	1/4	1,021.25	1/4	1,378.91	1/4	1,736.78	1/4	2,094.65	1/4	2,452.51	1/4	2,809.90	1/4	3,167.28	1/4	3,513.10
1/2	313.29	1/2	671.15	1/2	1,028.69	1/2	1,386.37	1/2	1,744.24	1/2	2,102.11	1/2	2,459.95	1/2	2,817.35	1/2	3,174.72	1/2	3,518.84
3/4	320.75	3/4	678.61	3/4	1,036.13	3/4	1,393.82	3/4	1,751.69	3/4	2,109.56	3/4	2,467.40	3/4	2,824.80	3/4	3,182.17	3/4	3,524.58
11	328.20	11	686.06	11	1,043.57	11	1,401.28	11	1,759.15	11	2,117.02	11	2,474.85	11	2,832.24	11	3,189.61	11	3,530.32
1/4	335.66	1/4	693.52	1/4	1,051.01	1/4	1,408.73	1/4	1,766.60	1/4	2,124.47	1/4	2,482.29	1/4	2,839.69	1/4	3,197.06	1/4	3,535.57
1/2	343.11	1/2	700.97	1/2	1,058.45	1/2	1,416.19	1/2	1,774.06	1/2	2,131.93	1/2	2,489.74	1/2	2,847.13	1/2	3,204.51	1/2	3,540.83
3/4	350.57	3/4	708.43	3/4	1,065.90	3/4	1,423.65	3/4	1,781.51	3/4	2,139.38	3/4	2,497.19	3/4	2,854.58	3/4	3,211.95	3/4	3,546.09

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 INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 311"

3 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 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	3,551.35	0	3,772.01	0	3,991.31	0	4,210.41	0	4,428.39	0		0		0		0		0	
1/4	3,556.17	1/4	3,776.59	1/4	3,995.88	1/4	4,214.98	1/4	4,432.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.98	1/2	3,781.17	1/2	4,000.44	1/2	4,219.54	1/2	4,437.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.80	3/4	3,785.74	3/4	4,005.01	3/4	4,224.11	3/4	4,441.82	3/4		3/4		3/4		3/4		3/4	
1	3,570.62	1	3,790.32	1	4,009.57	1	4,228.67	1	4,446.30	1		1		1		1		1	
1/4	3,575.20	1/4	3,794.90	1/4	4,014.14	1/4	4,233.24	1/4	4,450.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,579.77	1/2	3,799.47	1/2	4,018.70	1/2	4,237.80	1/2	4,454.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.35	3/4	3,804.05	3/4	4,023.26	3/4	4,242.37	3/4	4,458.15	3/4		3/4		3/4		3/4		3/4	
2	3,588.93	2	3,808.63	2	4,027.83	2	4,246.93	2	4,462.09	2		2		2		2		2	
1/4	3,593.50	1/4	3,813.21	1/4	4,032.39	1/4	4,251.49	1/4	4,465.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,598.08	1/2	3,817.78	1/2	4,036.96	1/2	4,256.06	1/2	4,468.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.66	3/4	3,822.36	3/4	4,041.52	3/4	4,260.62	3/4	4,471.65	3/4		3/4		3/4		3/4		3/4	
3	3,607.24	3	3,826.94	3	4,046.09	3	4,265.19	3	4,474.83	3		3		3		3		3	
1/4	3,611.81	1/4	3,831.51	1/4	4,050.65	1/4	4,269.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.39	1/2	3,836.09	1/2	4,055.22	1/2	4,274.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,620.97	3/4	3,840.67	3/4	4,059.78	3/4	4,278.88	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,625.54	4	3,845.24	4	4,064.35	4	4,283.45	4		4		4		4		4		4	
1/4	3,630.12	1/4	3,849.81	1/4	4,068.91	1/4	4,288.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,634.70	1/2	3,854.37	1/2	4,073.47	1/2	4,292.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,639.28	3/4	3,858.94	3/4	4,078.04	3/4	4,297.14	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,643.85	5	3,863.50	5	4,082.60	5	4,301.70	5		5		5		5		5		5	
1/4	3,648.43	1/4	3,868.07	1/4	4,087.17	1/4	4,306.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,653.01	1/2	3,872.63	1/2	4,091.73	1/2	4,310.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,657.58	3/4	3,877.20	3/4	4,096.30	3/4	4,315.40	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,662.16	6	3,881.76	6	4,100.86	6	4,319.96	6		6		6		6		6		6	
1/4	3,666.74	1/4	3,886.33	1/4	4,105.43	1/4	4,324.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,671.32	1/2	3,890.89	1/2	4,109.99	1/2	4,329.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,675.89	3/4	3,895.46	3/4	4,114.56	3/4	4,333.52	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,680.47	7	3,900.02	7	4,119.12	7	4,338.04	7		7		7		7		7		7	
1/4	3,685.05	1/4	3,904.58	1/4	4,123.69	1/4	4,342.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.62	1/2	3,909.15	1/2	4,128.25	1/2	4,347.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,694.20	3/4	3,913.71	3/4	4,132.81	3/4	4,351.59	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,698.78	8	3,918.28	8	4,137.38	8	4,356.11	8		8		8		8		8		8	
1/4	3,703.35	1/4	3,922.84	1/4	4,141.94	1/4	4,360.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,707.93	1/2	3,927.41	1/2	4,146.51	1/2	4,365.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,712.51	3/4	3,931.97	3/4	4,151.07	3/4	4,369.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,717.09	9	3,936.54	9	4,155.64	9	4,374.19	9		9		9		9		9		9	
1/4	3,721.66	1/4	3,941.10	1/4	4,160.20	1/4	4,378.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,726.24	1/2	3,945.67	1/2	4,164.77	1/2	4,383.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,730.82	3/4	3,950.23	3/4	4,169.33	3/4	4,387.75	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,735.39	10	3,954.80	10	4,173.90	10	4,392.27	10		10		10		10		10		10	
1/4	3,739.97	1/4	3,959.36	1/4	4,178.46	1/4	4,396.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,744.55	1/2	3,963.92	1/2	4,183.03	1/2	4,401.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,749.13	3/4	3,968.49	3/4	4,187.59	3/4	4,405.83	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,753.70	11	3,973.05	11	4,192.15	11	4,410.34	11		11		11		11		11		11	
1/4	3,758.28	1/4	3,977.62	1/4	4,196.72	1/4	4,414.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,762.86	1/2	3,982.18	1/2	4,201.28	1/2	4,419.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,767.43	3/4	3,986.75	3/4	4,205.85	3/4	4,423.88	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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