



BARGE "MM 316"

INNAGE TRIM TABLE 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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
4 PORT	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-1/8	02-1/8	- 02-5/8	02-5/8	- 03-1/4	03-1/4
4 STBD	- 00-1/2	00-1/2	- 01-0/8	01-0/8	- 01-5/8	01-5/8	- 02-1/8	02-1/8	- 02-5/8	02-5/8	- 03-1/8	03-1/8

(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 4 PORT IS 01-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED INNAGE IS 4'-01 1/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 7, 2019

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

<http://www.pmacorp.net>



BARGE "MM 316"

INNAGE TRIM TABLE 8" HATCH

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2
4 PORT	- 00-1/2	00-1/2	- 01-1/4	01-1/4	- 01-3/4	01-3/4	- 02-3/8	02-3/8	- 03-0/8	03-0/8	- 03-5/8	03-5/8
4 STBD	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-3/8	02-3/8	- 03-0/8	03-0/8	- 03-1/2	03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 7, 2019

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 & ANALYSIS, INC.
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BARGE "MM 316"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	13.84	0	195.83	0	432.25	0	676.41	0	921.29	0	1,165.49	0	1,411.56	0	1,657.62	0	1,903.69	0	2,149.76
1/4	15.95	1/4	200.27	1/4	437.37	1/4	681.49	1/4	926.32	1/4	1,170.62	1/4	1,416.68	1/4	1,662.75	1/4	1,908.82	1/4	2,154.88
1/2	18.06	1/2	204.71	1/2	442.50	1/2	686.56	1/2	931.34	1/2	1,175.74	1/2	1,421.81	1/2	1,667.88	1/2	1,913.94	1/2	2,160.01
3/4	20.18	3/4	209.15	3/4	447.63	3/4	691.64	3/4	936.36	3/4	1,180.87	3/4	1,426.94	3/4	1,673.00	3/4	1,919.07	3/4	2,165.14
1	22.29	1	213.60	1	452.75	1	696.71	1	941.38	1	1,185.99	1	1,432.06	1	1,678.13	1	1,924.20	1	2,170.26
1/4	25.43	1/4	218.12	1/4	457.88	1/4	701.80	1/4	946.41	1/4	1,191.12	1/4	1,437.19	1/4	1,683.26	1/4	1,929.32	1/4	2,175.39
1/2	28.58	1/2	222.65	1/2	463.01	1/2	706.88	1/2	951.43	1/2	1,196.25	1/2	1,442.31	1/2	1,688.38	1/2	1,934.45	1/2	2,180.52
3/4	31.73	3/4	227.18	3/4	468.14	3/4	711.96	3/4	956.45	3/4	1,201.37	3/4	1,447.44	3/4	1,693.51	3/4	1,939.58	3/4	2,185.64
2	34.88	2	231.71	2	473.26	2	717.05	2	961.47	2	1,206.50	2	1,452.57	2	1,698.63	2	1,944.70	2	2,190.77
1/4	38.43	1/4	236.33	1/4	478.39	1/4	722.14	1/4	966.50	1/4	1,211.63	1/4	1,457.69	1/4	1,703.76	1/4	1,949.83	1/4	2,195.90
1/2	41.98	1/2	240.94	1/2	483.52	1/2	727.23	1/2	971.52	1/2	1,216.75	1/2	1,462.82	1/2	1,708.89	1/2	1,954.95	1/2	2,201.02
3/4	45.53	3/4	245.56	3/4	488.64	3/4	732.32	3/4	976.54	3/4	1,221.88	3/4	1,467.95	3/4	1,714.01	3/4	1,960.08	3/4	2,206.15
3	49.08	3	250.18	3	493.77	3	737.41	3	981.56	3	1,227.01	3	1,473.07	3	1,719.14	3	1,965.21	3	2,211.27
1/4	52.73	1/4	254.96	1/4	498.87	1/4	742.52	1/4	986.59	1/4	1,232.13	1/4	1,478.20	1/4	1,724.27	1/4	1,970.33	1/4	2,216.40
1/2	56.38	1/2	259.74	1/2	503.97	1/2	747.63	1/2	991.61	1/2	1,237.26	1/2	1,483.33	1/2	1,729.39	1/2	1,975.46	1/2	2,221.53
3/4	60.03	3/4	264.53	3/4	509.07	3/4	752.74	3/4	996.63	3/4	1,242.39	3/4	1,488.45	3/4	1,734.52	3/4	1,980.59	3/4	2,226.65
4	63.68	4	269.31	4	514.17	4	757.85	4	1,001.65	4	1,247.51	4	1,493.58	4	1,739.65	4	1,985.71	4	2,231.78
1/4	67.43	1/4	274.27	1/4	519.24	1/4	762.98	1/4	1,006.73	1/4	1,252.64	1/4	1,498.71	1/4	1,744.77	1/4	1,990.84	1/4	2,236.91
1/2	71.17	1/2	279.22	1/2	524.31	1/2	768.10	1/2	1,011.80	1/2	1,257.76	1/2	1,503.83	1/2	1,749.90	1/2	1,995.97	1/2	2,242.03
3/4	74.91	3/4	284.17	3/4	529.38	3/4	773.23	3/4	1,016.88	3/4	1,262.89	3/4	1,508.96	3/4	1,755.03	3/4	2,001.09	3/4	2,247.16
5	78.65	5	289.12	5	534.45	5	778.36	5	1,021.95	5	1,268.02	5	1,514.08	5	1,760.15	5	2,006.22	5	2,252.29
1/4	82.56	1/4	294.16	1/4	539.52	1/4	783.49	1/4	1,027.08	1/4	1,273.14	1/4	1,519.21	1/4	1,765.28	1/4	2,011.35	1/4	2,257.41
1/2	86.47	1/2	299.20	1/2	544.59	1/2	788.61	1/2	1,032.20	1/2	1,278.27	1/2	1,524.34	1/2	1,770.40	1/2	2,016.47	1/2	2,262.54
3/4	90.38	3/4	304.24	3/4	549.66	3/4	793.74	3/4	1,037.33	3/4	1,283.40	3/4	1,529.46	3/4	1,775.53	3/4	2,021.60	3/4	2,267.67
6	94.29	6	309.28	6	554.73	6	798.87	6	1,042.46	6	1,288.52	6	1,534.59	6	1,780.66	6	2,026.72	6	2,272.79
1/4	98.37	1/4	314.39	1/4	559.80	1/4	804.00	1/4	1,047.58	1/4	1,293.65	1/4	1,539.72	1/4	1,785.78	1/4	2,031.85	1/4	2,277.92
1/2	102.45	1/2	319.49	1/2	564.86	1/2	809.12	1/2	1,052.71	1/2	1,298.78	1/2	1,544.84	1/2	1,790.91	1/2	2,036.98	1/2	2,283.04
3/4	106.53	3/4	324.60	3/4	569.93	3/4	814.25	3/4	1,057.83	3/4	1,303.90	3/4	1,549.97	3/4	1,796.04	3/4	2,042.10	3/4	2,288.17
7	110.61	7	329.70	7	575.00	7	819.38	7	1,062.96	7	1,309.03	7	1,555.10	7	1,801.16	7	2,047.23	7	2,293.30
1/4	114.78	1/4	334.83	1/4	580.07	1/4	824.50	1/4	1,068.09	1/4	1,314.15	1/4	1,560.22	1/4	1,806.29	1/4	2,052.36	1/4	2,298.42
1/2	118.95	1/2	339.96	1/2	585.14	1/2	829.63	1/2	1,073.21	1/2	1,319.28	1/2	1,565.35	1/2	1,811.42	1/2	2,057.48	1/2	2,303.55
3/4	123.12	3/4	345.09	3/4	590.21	3/4	834.76	3/4	1,078.34	3/4	1,324.41	3/4	1,570.47	3/4	1,816.54	3/4	2,062.61	3/4	2,308.68
8	127.28	8	350.21	8	595.28	8	839.89	8	1,083.47	8	1,329.53	8	1,575.60	8	1,821.67	8	2,067.74	8	2,313.80
1/4	131.54	1/4	355.34	1/4	600.35	1/4	845.01	1/4	1,088.59	1/4	1,334.66	1/4	1,580.73	1/4	1,826.79	1/4	2,072.86	1/4	2,318.93
1/2	135.79	1/2	360.47	1/2	605.42	1/2	850.14	1/2	1,093.72	1/2	1,339.79	1/2	1,585.85	1/2	1,831.92	1/2	2,077.99	1/2	2,324.06
3/4	140.05	3/4	365.59	3/4	610.49	3/4	855.27	3/4	1,098.85	3/4	1,344.91	3/4	1,590.98	3/4	1,837.05	3/4	2,083.11	3/4	2,329.18
9	144.30	9	370.72	9	615.56	9	860.40	9	1,103.97	9	1,350.04	9	1,596.11	9	1,842.17	9	2,088.24	9	2,334.31
1/4	148.56	1/4	375.85	1/4	620.63	1/4	865.52	1/4	1,109.10	1/4	1,355.17	1/4	1,601.23	1/4	1,847.30	1/4	2,093.37	1/4	2,339.43
1/2	152.82	1/2	380.98	1/2	625.70	1/2	870.65	1/2	1,114.23	1/2	1,360.29	1/2	1,606.36	1/2	1,852.43	1/2	2,098.49	1/2	2,344.56
3/4	157.08	3/4	386.10	3/4	630.77	3/4	875.78	3/4	1,119.35	3/4	1,365.42	3/4	1,611.49	3/4	1,857.55	3/4	2,103.62	3/4	2,349.69
10	161.34	10	391.23	10	635.84	10	880.91	10	1,124.48	10	1,370.55	10	1,616.61	10	1,862.68	10	2,108.75	10	2,354.81
1/4	165.61	1/4	396.36	1/4	640.91	1/4	885.98	1/4	1,129.60	1/4	1,375.67	1/4	1,621.74	1/4	1,867.81	1/4	2,113.87	1/4	2,359.94
1/2	169.88	1/2	401.48	1/2	645.98	1/2	891.06	1/2	1,134.73	1/2	1,380.80	1/2	1,626.87	1/2	1,872.93	1/2	2,119.00	1/2	2,365.07
3/4	174.14	3/4	406.61	3/4	651.05	3/4	896.13	3/4	1,139.86	3/4	1,385.92	3/4	1,631.99	3/4	1,878.06	3/4	2,124.13	3/4	2,370.19
11	178.41	11	411.74	11	656.12	11	901.20	11	1,144.98	11	1,391.05	11	1,637.12	11	1,883.19	11	2,129.25	11	2,375.32
1/4	182.77	1/4	416.86	1/4	661.20	1/4	906.23	1/4	1,150.11	1/4	1,396.18	1/4	1,642.24	1/4	1,888.31	1/4	2,134.38	1/4	2,380.45
1/2	187.12	1/2	421.99	1/2	666.27	1/2	911.25	1/2	1,155.24	1/2	1,401.30	1/2	1,647.37	1/2	1,893.44	1/2	2,139.51	1/2	2,385.57
3/4	191.47	3/4	427.12	3/4	671.34	3/4	916.27	3/4	1,160.36	3/4	1,406.43	3/4	1,652.50	3/4	1,898.56	3/4	2,144.63	3/4	2,390.70

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.
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 29'-09" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 316"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	2,395.83	0	2,641.86	0	2,887.06	0	3,132.26	0	3,376.27	0		0		0		0		0	
1/4	2,400.95	1/4	2,646.97	1/4	2,892.17	1/4	3,137.37	1/4	3,381.10	1/4		1/4		1/4		1/4		1/4	
1/2	2,406.08	1/2	2,652.08	1/2	2,897.28	1/2	3,142.48	1/2	3,385.93	1/2		1/2		1/2		1/2		1/2	
3/4	2,411.20	3/4	2,657.19	3/4	2,902.39	3/4	3,147.59	3/4	3,390.76	3/4		3/4		3/4		3/4		3/4	
1	2,416.33	1	2,662.30	1	2,907.50	1	3,152.69	1	3,395.59	1		1		1		1		1	
1/4	2,421.46	1/4	2,667.41	1/4	2,912.60	1/4	3,157.80	1/4	3,399.79	1/4		1/4		1/4		1/4		1/4	
1/2	2,426.58	1/2	2,672.51	1/2	2,917.71	1/2	3,162.91	1/2	3,403.99	1/2		1/2		1/2		1/2		1/2	
3/4	2,431.71	3/4	2,677.62	3/4	2,922.82	3/4	3,168.02	3/4	3,408.20	3/4		3/4		3/4		3/4		3/4	
2	2,436.84	2	2,682.73	2	2,927.93	2	3,173.13	2	3,412.40	2		2		2		2		2	
1/4	2,441.96	1/4	2,687.84	1/4	2,933.04	1/4	3,178.24	1/4	3,415.75	1/4		1/4		1/4		1/4		1/4	
1/2	2,447.09	1/2	2,692.95	1/2	2,938.15	1/2	3,183.34	1/2	3,419.10	1/2		1/2		1/2		1/2		1/2	
3/4	2,452.22	3/4	2,698.06	3/4	2,943.25	3/4	3,188.45	3/4	3,422.44	3/4		3/4		3/4		3/4		3/4	
3	2,457.34	3	2,703.16	3	2,948.36	3	3,193.56	3	3,425.79	3		3		3		3		3	
1/4	2,462.47	1/4	2,708.27	1/4	2,953.47	1/4	3,198.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,467.59	1/2	2,713.38	1/2	2,958.58	1/2	3,203.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,472.72	3/4	2,718.49	3/4	2,963.69	3/4	3,208.89	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,477.85	4	2,723.60	4	2,968.80	4	3,213.99	4		4		4		4		4		4	
1/4	2,482.97	1/4	2,728.71	1/4	2,973.90	1/4	3,219.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,488.10	1/2	2,733.81	1/2	2,979.01	1/2	3,224.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,493.23	3/4	2,738.92	3/4	2,984.12	3/4	3,229.32	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,498.35	5	2,744.03	5	2,989.23	5	3,234.43	5		5		5		5		5		5	
1/4	2,503.48	1/4	2,749.14	1/4	2,994.34	1/4	3,239.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,508.61	1/2	2,754.25	1/2	2,999.45	1/2	3,244.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,513.73	3/4	2,759.35	3/4	3,004.55	3/4	3,249.75	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,518.86	6	2,764.46	6	3,009.66	6	3,254.86	6		6		6		6		6		6	
1/4	2,523.99	1/4	2,769.57	1/4	3,014.77	1/4	3,259.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,529.11	1/2	2,774.68	1/2	3,019.88	1/2	3,265.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,534.24	3/4	2,779.79	3/4	3,024.99	3/4	3,270.11	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,539.36	7	2,784.90	7	3,030.09	7	3,275.19	7		7		7		7		7		7	
1/4	2,544.49	1/4	2,790.00	1/4	3,035.20	1/4	3,280.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,549.62	1/2	2,795.11	1/2	3,040.31	1/2	3,285.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,554.74	3/4	2,800.22	3/4	3,045.42	3/4	3,290.37	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,559.87	8	2,805.33	8	3,050.53	8	3,295.43	8		8		8		8		8		8	
1/4	2,565.00	1/4	2,810.44	1/4	3,055.64	1/4	3,300.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,570.12	1/2	2,815.55	1/2	3,060.74	1/2	3,305.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,575.25	3/4	2,820.65	3/4	3,065.85	3/4	3,310.60	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,580.38	9	2,825.76	9	3,070.96	9	3,315.66	9		9		9		9		9		9	
1/4	2,585.50	1/4	2,830.87	1/4	3,076.07	1/4	3,320.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,590.63	1/2	2,835.98	1/2	3,081.18	1/2	3,325.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,595.75	3/4	2,841.09	3/4	3,086.29	3/4	3,330.83	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,600.88	10	2,846.20	10	3,091.39	10	3,335.88	10		10		10		10		10		10	
1/4	2,606.01	1/4	2,851.30	1/4	3,096.50	1/4	3,340.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,611.13	1/2	2,856.41	1/2	3,101.61	1/2	3,345.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,616.26	3/4	2,861.52	3/4	3,106.72	3/4	3,351.04	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,621.39	11	2,866.63	11	3,111.83	11	3,356.10	11		11		11		11		11		11	
1/4	2,626.51	1/4	2,871.74	1/4	3,116.94	1/4	3,361.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,631.63	1/2	2,876.85	1/2	3,122.04	1/2	3,366.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,636.74	3/4	2,881.95	3/4	3,127.15	3/4	3,371.22	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	13.89	0	196.69	0	433.93	0	680.16	0	926.37	0	1,171.39	0	1,418.28	0	1,665.17	0	1,912.07	0	2,158.96
1/4	16.02	1/4	201.15	1/4	439.08	1/4	685.28	1/4	931.41	1/4	1,176.53	1/4	1,423.43	1/4	1,670.32	1/4	1,917.21	1/4	2,164.10
1/2	18.14	1/2	205.61	1/2	444.22	1/2	690.41	1/2	936.45	1/2	1,181.68	1/2	1,428.57	1/2	1,675.46	1/2	1,922.35	1/2	2,169.25
3/4	20.27	3/4	210.06	3/4	449.36	3/4	695.54	3/4	941.49	3/4	1,186.82	3/4	1,433.71	3/4	1,680.61	3/4	1,927.50	3/4	2,174.39
1	22.39	1	214.52	1	454.51	1	700.67	1	946.53	1	1,191.96	1	1,438.86	1	1,685.75	1	1,932.64	1	2,179.53
1/4	25.56	1/4	219.07	1/4	459.65	1/4	705.81	1/4	951.57	1/4	1,197.11	1/4	1,444.00	1/4	1,690.89	1/4	1,937.79	1/4	2,184.68
1/2	28.72	1/2	223.62	1/2	464.80	1/2	710.94	1/2	956.61	1/2	1,202.25	1/2	1,449.14	1/2	1,696.04	1/2	1,942.93	1/2	2,189.82
3/4	31.89	3/4	228.16	3/4	469.94	3/4	716.08	3/4	961.65	3/4	1,207.39	3/4	1,454.29	3/4	1,701.18	3/4	1,948.07	3/4	2,194.97
2	35.05	2	232.71	2	475.09	2	721.22	2	966.69	2	1,212.54	2	1,459.43	2	1,706.32	2	1,953.22	2	2,200.11
1/4	38.62	1/4	237.34	1/4	480.23	1/4	726.36	1/4	971.72	1/4	1,217.68	1/4	1,464.57	1/4	1,711.47	1/4	1,958.36	1/4	2,205.25
1/2	42.19	1/2	241.97	1/2	485.37	1/2	731.51	1/2	976.76	1/2	1,222.82	1/2	1,469.72	1/2	1,716.61	1/2	1,963.50	1/2	2,210.40
3/4	45.75	3/4	246.61	3/4	490.52	3/4	736.65	3/4	981.80	3/4	1,227.97	3/4	1,474.86	3/4	1,721.75	3/4	1,968.65	3/4	2,215.54
3	49.32	3	251.24	3	495.66	3	741.79	3	986.84	3	1,233.11	3	1,480.00	3	1,726.90	3	1,973.79	3	2,220.68
1/4	52.99	1/4	256.04	1/4	500.80	1/4	746.94	1/4	991.88	1/4	1,238.26	1/4	1,485.15	1/4	1,732.04	1/4	1,978.93	1/4	2,225.83
1/2	56.66	1/2	260.84	1/2	505.93	1/2	752.08	1/2	996.92	1/2	1,243.40	1/2	1,490.29	1/2	1,737.18	1/2	1,984.08	1/2	2,230.97
3/4	60.33	3/4	265.65	3/4	511.06	3/4	757.23	3/4	1,001.96	3/4	1,248.54	3/4	1,495.44	3/4	1,742.33	3/4	1,989.22	3/4	2,236.11
4	63.99	4	270.45	4	516.20	4	762.37	4	1,007.00	4	1,253.69	4	1,500.58	4	1,747.47	4	1,994.36	4	2,241.26
1/4	67.75	1/4	275.42	1/4	521.32	1/4	767.52	1/4	1,012.09	1/4	1,258.83	1/4	1,505.72	1/4	1,752.62	1/4	1,999.51	1/4	2,246.40
1/2	71.51	1/2	280.39	1/2	526.45	1/2	772.66	1/2	1,017.18	1/2	1,263.97	1/2	1,510.87	1/2	1,757.76	1/2	2,004.65	1/2	2,251.54
3/4	75.27	3/4	285.36	3/4	531.57	3/4	777.81	3/4	1,022.28	3/4	1,269.12	3/4	1,516.01	3/4	1,762.90	3/4	2,009.80	3/4	2,256.69
5	79.03	5	290.33	5	536.69	5	782.95	5	1,027.37	5	1,274.26	5	1,521.15	5	1,768.05	5	2,014.94	5	2,261.83
1/4	82.96	1/4	295.38	1/4	541.82	1/4	788.10	1/4	1,032.51	1/4	1,279.40	1/4	1,526.30	1/4	1,773.19	1/4	2,020.08	1/4	2,266.98
1/2	86.88	1/2	300.44	1/2	546.94	1/2	793.24	1/2	1,037.66	1/2	1,284.55	1/2	1,531.44	1/2	1,778.33	1/2	2,025.23	1/2	2,272.12
3/4	90.81	3/4	305.50	3/4	552.06	3/4	798.38	3/4	1,042.80	3/4	1,289.69	3/4	1,536.58	3/4	1,783.48	3/4	2,030.37	3/4	2,277.26
6	94.74	6	310.56	6	557.19	6	803.53	6	1,047.94	6	1,294.84	6	1,541.73	6	1,788.62	6	2,035.51	6	2,282.41
1/4	98.84	1/4	315.68	1/4	562.31	1/4	808.67	1/4	1,053.09	1/4	1,299.98	1/4	1,546.87	1/4	1,793.76	1/4	2,040.66	1/4	2,287.55
1/2	102.93	1/2	320.80	1/2	567.43	1/2	813.82	1/2	1,058.23	1/2	1,305.12	1/2	1,552.02	1/2	1,798.91	1/2	2,045.80	1/2	2,292.69
3/4	107.03	3/4	325.92	3/4	572.55	3/4	818.96	3/4	1,063.37	3/4	1,310.27	3/4	1,557.16	3/4	1,804.05	3/4	2,050.94	3/4	2,297.84
7	111.13	7	331.05	7	577.68	7	824.11	7	1,068.52	7	1,315.41	7	1,562.30	7	1,809.20	7	2,056.09	7	2,302.98
1/4	115.31	1/4	336.19	1/4	582.80	1/4	829.25	1/4	1,073.66	1/4	1,320.55	1/4	1,567.45	1/4	1,814.34	1/4	2,061.23	1/4	2,308.12
1/2	119.50	1/2	341.33	1/2	587.92	1/2	834.40	1/2	1,078.80	1/2	1,325.70	1/2	1,572.59	1/2	1,819.48	1/2	2,066.38	1/2	2,313.27
3/4	123.68	3/4	346.48	3/4	593.05	3/4	839.54	3/4	1,083.95	3/4	1,330.84	3/4	1,577.73	3/4	1,824.63	3/4	2,071.52	3/4	2,318.41
8	127.87	8	351.62	8	598.17	8	844.69	8	1,089.09	8	1,335.98	8	1,582.88	8	1,829.77	8	2,076.66	8	2,323.56
1/4	132.14	1/4	356.77	1/4	603.29	1/4	849.83	1/4	1,094.23	1/4	1,341.13	1/4	1,588.02	1/4	1,834.91	1/4	2,081.81	1/4	2,328.70
1/2	136.41	1/2	361.91	1/2	608.42	1/2	854.98	1/2	1,099.38	1/2	1,346.27	1/2	1,593.16	1/2	1,840.06	1/2	2,086.95	1/2	2,333.84
3/4	140.68	3/4	367.06	3/4	613.54	3/4	860.12	3/4	1,104.52	3/4	1,351.41	3/4	1,598.31	3/4	1,845.20	3/4	2,092.09	3/4	2,338.99
9	144.95	9	372.20	9	618.66	9	865.26	9	1,109.67	9	1,356.56	9	1,603.45	9	1,850.34	9	2,097.24	9	2,344.13
1/4	149.23	1/4	377.34	1/4	623.79	1/4	870.41	1/4	1,114.81	1/4	1,361.70	1/4	1,608.59	1/4	1,855.49	1/4	2,102.38	1/4	2,349.27
1/2	153.51	1/2	382.49	1/2	628.91	1/2	875.55	1/2	1,119.95	1/2	1,366.85	1/2	1,613.74	1/2	1,860.63	1/2	2,107.52	1/2	2,354.42
3/4	157.79	3/4	387.63	3/4	634.03	3/4	880.70	3/4	1,125.10	3/4	1,371.99	3/4	1,618.88	3/4	1,865.77	3/4	2,112.67	3/4	2,359.56
10	162.06	10	392.78	10	639.16	10	885.84	10	1,130.24	10	1,377.13	10	1,624.03	10	1,870.92	10	2,117.81	10	2,364.70
1/4	166.35	1/4	397.92	1/4	644.28	1/4	890.93	1/4	1,135.38	1/4	1,382.28	1/4	1,629.17	1/4	1,876.06	1/4	2,122.95	1/4	2,369.85
1/2	170.63	1/2	403.07	1/2	649.40	1/2	896.03	1/2	1,140.53	1/2	1,387.42	1/2	1,634.31	1/2	1,881.21	1/2	2,128.10	1/2	2,374.99
3/4	174.92	3/4	408.21	3/4	654.53	3/4	901.12	3/4	1,145.67	3/4	1,392.56	3/4	1,639.46	3/4	1,886.35	3/4	2,133.24	3/4	2,380.13
11	179.20	11	413.35	11	659.65	11	906.21	11	1,150.81	11	1,397.71	11	1,644.60	11	1,891.49	11	2,138.39	11	2,385.28
1/4	183.57	1/4	418.50	1/4	664.78	1/4	911.25	1/4	1,155.96	1/4	1,402.85	1/4	1,649.74	1/4	1,896.64	1/4	2,143.53	1/4	2,390.42
1/2	187.95	1/2	423.64	1/2	669.90	1/2	916.29	1/2	1,161.10	1/2	1,407.99	1/2	1,654.89	1/2	1,901.78	1/2	2,148.67	1/2	2,395.57
3/4	192.32	3/4	428.79	3/4	675.03	3/4	921.33	3/4	1,166.25	3/4	1,413.14	3/4	1,660.03	3/4	1,906.92	3/4	2,153.82	3/4	2,400.71

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.
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 29'-09" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 31'-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 "MM 316"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	2,405.85	0	2,652.72	0	2,898.74	0	3,144.77	0	3,389.59	0		0		0		0		0	
1/4	2,411.00	1/4	2,657.84	1/4	2,903.87	1/4	3,149.89	1/4	3,394.44	1/4		1/4		1/4		1/4		1/4	
1/2	2,416.14	1/2	2,662.97	1/2	2,908.99	1/2	3,155.02	1/2	3,399.29	1/2		1/2		1/2		1/2		1/2	
3/4	2,421.28	3/4	2,668.09	3/4	2,914.12	3/4	3,160.14	3/4	3,404.14	3/4		3/4		3/4		3/4		3/4	
1	2,426.43	1	2,673.22	1	2,919.24	1	3,165.27	1	3,408.98	1		1		1		1		1	
1/4	2,431.57	1/4	2,678.34	1/4	2,924.37	1/4	3,170.39	1/4	3,413.20	1/4		1/4		1/4		1/4		1/4	
1/2	2,436.71	1/2	2,683.47	1/2	2,929.49	1/2	3,175.52	1/2	3,417.42	1/2		1/2		1/2		1/2		1/2	
3/4	2,441.86	3/4	2,688.60	3/4	2,934.62	3/4	3,180.64	3/4	3,421.63	3/4		3/4		3/4		3/4		3/4	
2	2,447.00	2	2,693.72	2	2,939.75	2	3,185.77	2	3,425.85	2		2		2		2		2	
1/4	2,452.15	1/4	2,698.85	1/4	2,944.87	1/4	3,190.89	1/4	3,429.21	1/4		1/4		1/4		1/4		1/4	
1/2	2,457.29	1/2	2,703.97	1/2	2,950.00	1/2	3,196.02	1/2	3,432.57	1/2		1/2		1/2		1/2		1/2	
3/4	2,462.43	3/4	2,709.10	3/4	2,955.12	3/4	3,201.15	3/4	3,435.93	3/4		3/4		3/4		3/4		3/4	
3	2,467.58	3	2,714.22	3	2,960.25	3	3,206.27	3	3,439.29	3		3		3		3		3	
1/4	2,472.72	1/4	2,719.35	1/4	2,965.37	1/4	3,211.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,477.86	1/2	2,724.47	1/2	2,970.50	1/2	3,216.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,483.01	3/4	2,729.60	3/4	2,975.62	3/4	3,221.65	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,488.15	4	2,734.73	4	2,980.75	4	3,226.77	4		4		4		4		4		4	
1/4	2,493.29	1/4	2,739.85	1/4	2,985.87	1/4	3,231.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,498.44	1/2	2,744.98	1/2	2,991.00	1/2	3,237.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,503.58	3/4	2,750.10	3/4	2,996.13	3/4	3,242.15	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,508.72	5	2,755.23	5	3,001.25	5	3,247.28	5		5		5		5		5		5	
1/4	2,513.87	1/4	2,760.35	1/4	3,006.38	1/4	3,252.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,519.01	1/2	2,765.48	1/2	3,011.50	1/2	3,257.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,524.16	3/4	2,770.60	3/4	3,016.63	3/4	3,262.65	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,529.30	6	2,775.73	6	3,021.75	6	3,267.78	6		6		6		6		6		6	
1/4	2,534.44	1/4	2,780.85	1/4	3,026.88	1/4	3,272.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,539.59	1/2	2,785.98	1/2	3,032.00	1/2	3,277.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,544.73	3/4	2,791.11	3/4	3,037.13	3/4	3,283.08	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,549.87	7	2,796.23	7	3,042.26	7	3,288.18	7		7		7		7		7		7	
1/4	2,555.02	1/4	2,801.36	1/4	3,047.38	1/4	3,293.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,560.16	1/2	2,806.48	1/2	3,052.51	1/2	3,298.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,565.30	3/4	2,811.61	3/4	3,057.63	3/4	3,303.41	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,570.45	8	2,816.73	8	3,062.76	8	3,308.48	8		8		8		8		8		8	
1/4	2,575.59	1/4	2,821.86	1/4	3,067.88	1/4	3,313.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,580.74	1/2	2,826.98	1/2	3,073.01	1/2	3,318.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,585.88	3/4	2,832.11	3/4	3,078.13	3/4	3,323.70	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,591.02	9	2,837.24	9	3,083.26	9	3,328.78	9		9		9		9		9		9	
1/4	2,596.17	1/4	2,842.36	1/4	3,088.38	1/4	3,333.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,601.31	1/2	2,847.49	1/2	3,093.51	1/2	3,338.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,606.45	3/4	2,852.61	3/4	3,098.64	3/4	3,344.00	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,611.60	10	2,857.74	10	3,103.76	10	3,349.07	10		10		10		10		10		10	
1/4	2,616.74	1/4	2,862.86	1/4	3,108.89	1/4	3,354.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,621.88	1/2	2,867.99	1/2	3,114.01	1/2	3,359.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,627.03	3/4	2,873.11	3/4	3,119.14	3/4	3,364.29	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,632.17	11	2,878.24	11	3,124.26	11	3,369.36	11		11		11		11		11		11	
1/4	2,637.31	1/4	2,883.36	1/4	3,129.39	1/4	3,374.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,642.44	1/2	2,888.49	1/2	3,134.51	1/2	3,379.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,647.58	3/4	2,893.62	3/4	3,139.64	3/4	3,384.53	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	20.94	0	310.85	0	612.46	0	906.68	0	1,206.24	0	1,508.05	0	1,812.42	0	2,116.79	0	2,421.16	0	2,725.54
1/4	25.50	1/4	316.99	1/4	618.81	1/4	912.73	1/4	1,212.44	1/4	1,514.39	1/4	1,818.76	1/4	2,123.13	1/4	2,427.51	1/4	2,731.88
1/2	30.05	1/2	323.13	1/2	625.15	1/2	918.78	1/2	1,218.64	1/2	1,520.73	1/2	1,825.10	1/2	2,129.47	1/2	2,433.85	1/2	2,738.22
3/4	34.61	3/4	329.28	3/4	631.49	3/4	924.83	3/4	1,224.84	3/4	1,527.07	3/4	1,831.44	3/4	2,135.82	3/4	2,440.19	3/4	2,744.56
1	39.17	1	335.42	1	637.83	1	930.87	1	1,231.03	1	1,533.41	1	1,837.78	1	2,142.16	1	2,446.53	1	2,750.90
1/4	44.90	1/4	341.56	1/4	644.17	1/4	936.93	1/4	1,237.23	1/4	1,539.75	1/4	1,844.12	1/4	2,148.50	1/4	2,452.87	1/4	2,757.24
1/2	50.62	1/2	347.70	1/2	650.51	1/2	942.98	1/2	1,243.43	1/2	1,546.09	1/2	1,850.47	1/2	2,154.84	1/2	2,459.21	1/2	2,763.58
3/4	56.35	3/4	353.85	3/4	656.86	3/4	949.04	3/4	1,249.63	3/4	1,552.43	3/4	1,856.81	3/4	2,161.18	3/4	2,465.55	3/4	2,769.93
2	62.08	2	359.99	2	663.20	2	955.09	2	1,255.83	2	1,558.78	2	1,863.15	2	2,167.52	2	2,471.89	2	2,776.27
1/4	68.20	1/4	366.13	1/4	669.54	1/4	961.16	1/4	1,262.03	1/4	1,565.12	1/4	1,869.49	1/4	2,173.86	1/4	2,478.23	1/4	2,782.61
1/2	74.33	1/2	372.27	1/2	675.88	1/2	967.22	1/2	1,268.22	1/2	1,571.46	1/2	1,875.83	1/2	2,180.20	1/2	2,484.58	1/2	2,788.95
3/4	80.45	3/4	378.42	3/4	682.22	3/4	973.28	3/4	1,274.42	3/4	1,577.80	3/4	1,882.17	3/4	2,186.54	3/4	2,490.92	3/4	2,795.29
3	86.57	3	384.56	3	688.56	3	979.35	3	1,280.62	3	1,584.14	3	1,888.51	3	2,192.89	3	2,497.26	3	2,801.63
1/4	92.70	1/4	390.80	1/4	694.76	1/4	985.55	1/4	1,286.82	1/4	1,590.48	1/4	1,894.85	1/4	2,199.23	1/4	2,503.60	1/4	2,807.97
1/2	98.84	1/2	397.04	1/2	700.95	1/2	991.75	1/2	1,293.02	1/2	1,596.82	1/2	1,901.19	1/2	2,205.57	1/2	2,509.94	1/2	2,814.31
3/4	104.98	3/4	403.28	3/4	707.14	3/4	997.95	3/4	1,299.22	3/4	1,603.16	3/4	1,907.54	3/4	2,211.91	3/4	2,516.28	3/4	2,820.65
4	111.11	4	409.53	4	713.33	4	1,004.16	4	1,305.42	4	1,609.50	4	1,913.88	4	2,218.25	4	2,522.62	4	2,827.00
1/4	117.25	1/4	415.87	1/4	719.37	1/4	1,010.50	1/4	1,311.69	1/4	1,615.85	1/4	1,920.22	1/4	2,224.59	1/4	2,528.96	1/4	2,833.34
1/2	123.39	1/2	422.21	1/2	725.42	1/2	1,016.84	1/2	1,317.96	1/2	1,622.19	1/2	1,926.56	1/2	2,230.93	1/2	2,535.30	1/2	2,839.68
3/4	129.53	3/4	428.55	3/4	731.46	3/4	1,023.18	3/4	1,324.23	3/4	1,628.53	3/4	1,932.90	3/4	2,237.27	3/4	2,541.65	3/4	2,846.02
5	135.67	5	434.89	5	737.50	5	1,029.52	5	1,330.50	5	1,634.87	5	1,939.24	5	2,243.61	5	2,547.99	5	2,852.36
1/4	141.91	1/4	441.23	1/4	743.54	1/4	1,035.87	1/4	1,336.84	1/4	1,641.21	1/4	1,945.58	1/4	2,249.96	1/4	2,554.33	1/4	2,858.70
1/2	148.16	1/2	447.58	1/2	749.58	1/2	1,042.21	1/2	1,343.18	1/2	1,647.55	1/2	1,951.92	1/2	2,256.30	1/2	2,560.67	1/2	2,865.04
3/4	154.40	3/4	453.92	3/4	755.62	3/4	1,048.55	3/4	1,349.52	3/4	1,653.89	3/4	1,958.26	3/4	2,262.64	3/4	2,567.01	3/4	2,871.38
6	160.64	6	460.26	6	761.67	6	1,054.89	6	1,355.86	6	1,660.23	6	1,964.61	6	2,268.98	6	2,573.35	6	2,877.72
1/4	166.98	1/4	466.60	1/4	767.71	1/4	1,061.23	1/4	1,362.20	1/4	1,666.57	1/4	1,970.95	1/4	2,275.32	1/4	2,579.69	1/4	2,884.07
1/2	173.32	1/2	472.94	1/2	773.75	1/2	1,067.58	1/2	1,368.54	1/2	1,672.92	1/2	1,977.29	1/2	2,281.66	1/2	2,586.03	1/2	2,890.41
3/4	179.66	3/4	479.29	3/4	779.79	3/4	1,073.92	3/4	1,374.88	3/4	1,679.26	3/4	1,983.63	3/4	2,288.00	3/4	2,592.37	3/4	2,896.75
7	186.00	7	485.63	7	785.83	7	1,080.26	7	1,381.22	7	1,685.60	7	1,989.97	7	2,294.34	7	2,598.72	7	2,903.09
1/4	192.35	1/4	491.97	1/4	791.88	1/4	1,086.60	1/4	1,387.57	1/4	1,691.94	1/4	1,996.31	1/4	2,300.68	1/4	2,605.06	1/4	2,909.43
1/2	198.69	1/2	498.31	1/2	797.92	1/2	1,092.94	1/2	1,393.91	1/2	1,698.28	1/2	2,002.65	1/2	2,307.03	1/2	2,611.40	1/2	2,915.77
3/4	205.03	3/4	504.65	3/4	803.96	3/4	1,099.29	3/4	1,400.25	3/4	1,704.62	3/4	2,008.99	3/4	2,313.37	3/4	2,617.74	3/4	2,922.11
8	211.37	8	510.99	8	810.00	8	1,105.63	8	1,406.59	8	1,710.96	8	2,015.33	8	2,319.71	8	2,624.08	8	2,928.45
1/4	217.71	1/4	517.34	1/4	816.04	1/4	1,111.97	1/4	1,412.93	1/4	1,717.30	1/4	2,021.68	1/4	2,326.05	1/4	2,630.42	1/4	2,934.79
1/2	224.06	1/2	523.68	1/2	822.09	1/2	1,118.31	1/2	1,419.27	1/2	1,723.64	1/2	2,028.02	1/2	2,332.39	1/2	2,636.76	1/2	2,941.14
3/4	230.40	3/4	530.02	3/4	828.13	3/4	1,124.65	3/4	1,425.61	3/4	1,729.99	3/4	2,034.36	3/4	2,338.73	3/4	2,643.10	3/4	2,947.48
9	236.74	9	536.36	9	834.17	9	1,131.00	9	1,431.95	9	1,736.33	9	2,040.70	9	2,345.07	9	2,649.44	9	2,953.82
1/4	242.98	1/4	542.70	1/4	840.21	1/4	1,137.34	1/4	1,438.29	1/4	1,742.67	1/4	2,047.04	1/4	2,351.41	1/4	2,655.79	1/4	2,960.16
1/2	249.22	1/2	549.05	1/2	846.25	1/2	1,143.68	1/2	1,444.64	1/2	1,749.01	1/2	2,053.38	1/2	2,357.75	1/2	2,662.13	1/2	2,966.50
3/4	255.47	3/4	555.39	3/4	852.30	3/4	1,150.02	3/4	1,450.98	3/4	1,755.35	3/4	2,059.72	3/4	2,364.10	3/4	2,668.47	3/4	2,972.84
10	261.71	10	561.73	10	858.34	10	1,156.36	10	1,457.32	10	1,761.69	10	2,066.06	10	2,370.44	10	2,674.81	10	2,979.18
1/4	267.85	1/4	568.07	1/4	864.38	1/4	1,162.63	1/4	1,463.66	1/4	1,768.03	1/4	2,072.40	1/4	2,376.78	1/4	2,681.15	1/4	2,985.52
1/2	273.99	1/2	574.41	1/2	870.42	1/2	1,168.91	1/2	1,470.00	1/2	1,774.37	1/2	2,078.75	1/2	2,383.12	1/2	2,687.49	1/2	2,991.86
3/4	280.14	3/4	580.75	3/4	876.46	3/4	1,175.18	3/4	1,476.34	3/4	1,780.71	3/4	2,085.09	3/4	2,389.46	3/4	2,693.83	3/4	2,998.21
11	286.28	11	587.10	11	882.50	11	1,181.45	11	1,482.68	11	1,787.05	11	2,091.43	11	2,395.80	11	2,700.17	11	3,004.55
1/4	292.42	1/4	593.44	1/4	888.55	1/4	1,187.64	1/4	1,489.02	1/4	1,793.40	1/4	2,097.77	1/4	2,402.14	1/4	2,706.51	1/4	3,010.89
1/2	298.56	1/2	599.78	1/2	894.59	1/2	1,193.84	1/2	1,495.36	1/2	1,799.74	1/2	2,104.11	1/2	2,408.48	1/2	2,712.86	1/2	3,017.23
3/4	304.71	3/4	606.12	3/4	900.64	3/4	1,200.04	3/4	1,501.71	3/4	1,806.08	3/4	2,110.45	3/4	2,414.82	3/4	2,719.20	3/4	3,023.57

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 316"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	3,029.91	0	3,334.24	0	3,637.74	0	3,941.25	0	4,243.27	0		0		0		0		0	
1/4	3,036.25	1/4	3,340.56	1/4	3,644.07	1/4	3,947.57	1/4	4,249.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,042.59	1/2	3,346.89	1/2	3,650.39	1/2	3,953.89	1/2	4,255.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,048.93	3/4	3,353.21	3/4	3,656.71	3/4	3,960.22	3/4	4,261.21	3/4		3/4		3/4		3/4		3/4	
1	3,055.27	1	3,359.53	1	3,663.04	1	3,966.54	1	4,267.19	1		1		1		1		1	
1/4	3,061.62	1/4	3,365.85	1/4	3,669.36	1/4	3,972.86	1/4	4,272.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,067.96	1/2	3,372.18	1/2	3,675.68	1/2	3,979.19	1/2	4,277.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,074.30	3/4	3,378.50	3/4	3,682.00	3/4	3,985.51	3/4	4,282.80	3/4		3/4		3/4		3/4		3/4	
2	3,080.64	2	3,384.82	2	3,688.33	2	3,991.83	2	4,288.00	2		2		2		2		2	
1/4	3,086.98	1/4	3,391.15	1/4	3,694.65	1/4	3,998.15	1/4	4,292.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,093.32	1/2	3,397.47	1/2	3,700.97	1/2	4,004.48	1/2	4,296.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,099.66	3/4	3,403.79	3/4	3,707.30	3/4	4,010.80	3/4	4,300.44	3/4		3/4		3/4		3/4		3/4	
3	3,106.00	3	3,410.12	3	3,713.62	3	4,017.12	3	4,304.59	3		3		3		3		3	
1/4	3,112.34	1/4	3,416.44	1/4	3,719.94	1/4	4,023.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,118.69	1/2	3,422.76	1/2	3,726.27	1/2	4,029.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,125.03	3/4	3,429.08	3/4	3,732.59	3/4	4,036.09	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,131.37	4	3,435.41	4	3,738.91	4	4,042.42	4		4		4		4		4		4	
1/4	3,137.71	1/4	3,441.73	1/4	3,745.23	1/4	4,048.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,144.05	1/2	3,448.05	1/2	3,751.56	1/2	4,055.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,150.39	3/4	3,454.38	3/4	3,757.88	3/4	4,061.38	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,156.73	5	3,460.70	5	3,764.20	5	4,067.71	5		5		5		5		5		5	
1/4	3,163.07	1/4	3,467.02	1/4	3,770.53	1/4	4,074.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,169.41	1/2	3,473.35	1/2	3,776.85	1/2	4,080.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,175.76	3/4	3,479.67	3/4	3,783.17	3/4	4,086.68	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,182.10	6	3,485.99	6	3,789.50	6	4,093.00	6		6		6		6		6		6	
1/4	3,188.44	1/4	3,492.31	1/4	3,795.82	1/4	4,099.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,194.78	1/2	3,498.64	1/2	3,802.14	1/2	4,105.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,201.12	3/4	3,504.96	3/4	3,808.46	3/4	4,111.87	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,207.46	7	3,511.28	7	3,814.79	7	4,118.16	7		7		7		7		7		7	
1/4	3,213.80	1/4	3,517.61	1/4	3,821.11	1/4	4,124.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,220.14	1/2	3,523.93	1/2	3,827.43	1/2	4,130.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.48	3/4	3,530.25	3/4	3,833.76	3/4	4,136.94	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,232.83	8	3,536.58	8	3,840.08	8	4,143.21	8		8		8		8		8		8	
1/4	3,239.17	1/4	3,542.90	1/4	3,846.40	1/4	4,149.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.51	1/2	3,549.22	1/2	3,852.73	1/2	4,155.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.85	3/4	3,555.54	3/4	3,859.05	3/4	4,161.99	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,258.19	9	3,561.87	9	3,865.37	9	4,168.25	9		9		9		9		9		9	
1/4	3,264.53	1/4	3,568.19	1/4	3,871.69	1/4	4,174.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,270.87	1/2	3,574.51	1/2	3,878.02	1/2	4,180.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,277.21	3/4	3,580.84	3/4	3,884.34	3/4	4,187.02	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,283.55	10	3,587.16	10	3,890.66	10	4,193.28	10		10		10		10		10		10	
1/4	3,289.90	1/4	3,593.48	1/4	3,896.99	1/4	4,199.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,296.24	1/2	3,599.81	1/2	3,903.31	1/2	4,205.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,302.58	3/4	3,606.13	3/4	3,909.63	3/4	4,212.05	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,308.92	11	3,612.45	11	3,915.96	11	4,218.30	11		11		11		11		11		11	
1/4	3,315.25	1/4	3,618.77	1/4	3,922.28	1/4	4,224.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,321.58	1/2	3,625.10	1/2	3,928.60	1/2	4,230.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,327.91	3/4	3,631.42	3/4	3,934.92	3/4	4,237.03	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	20.87	0	309.81	0	610.42	0	913.12	0	1,215.58	0	1,516.39	0	1,819.76	0	2,123.13	0	2,426.50	0	2,729.87
1/4	25.41	1/4	315.93	1/4	616.74	1/4	919.43	1/4	1,221.76	1/4	1,522.71	1/4	1,826.08	1/4	2,129.45	1/4	2,432.82	1/4	2,736.19
1/2	29.95	1/2	322.05	1/2	623.07	1/2	925.73	1/2	1,227.94	1/2	1,529.03	1/2	1,832.40	1/2	2,135.77	1/2	2,439.14	1/2	2,742.51
3/4	34.50	3/4	328.17	3/4	629.39	3/4	932.04	3/4	1,234.12	3/4	1,535.35	3/4	1,838.72	3/4	2,142.09	3/4	2,445.46	3/4	2,748.83
1	39.04	1	334.29	1	635.71	1	938.34	1	1,240.29	1	1,541.67	1	1,845.04	1	2,148.41	1	2,451.78	1	2,755.15
1/4	44.75	1/4	340.41	1/4	642.03	1/4	944.66	1/4	1,246.47	1/4	1,547.99	1/4	1,851.36	1/4	2,154.73	1/4	2,458.10	1/4	2,761.47
1/2	50.46	1/2	346.54	1/2	648.35	1/2	950.97	1/2	1,252.65	1/2	1,554.31	1/2	1,857.68	1/2	2,161.05	1/2	2,464.42	1/2	2,767.79
3/4	56.17	3/4	352.66	3/4	654.67	3/4	957.28	3/4	1,258.83	3/4	1,560.63	3/4	1,864.00	3/4	2,167.37	3/4	2,470.74	3/4	2,774.11
2	61.88	2	358.78	2	660.99	2	963.60	2	1,265.01	2	1,566.95	2	1,870.32	2	2,173.69	2	2,477.06	2	2,780.43
1/4	67.98	1/4	364.90	1/4	667.31	1/4	969.92	1/4	1,271.18	1/4	1,573.27	1/4	1,876.64	1/4	2,180.01	1/4	2,483.38	1/4	2,786.75
1/2	74.08	1/2	371.02	1/2	673.63	1/2	976.24	1/2	1,277.36	1/2	1,579.59	1/2	1,882.96	1/2	2,186.33	1/2	2,489.70	1/2	2,793.07
3/4	80.18	3/4	377.14	3/4	679.95	3/4	982.56	3/4	1,283.54	3/4	1,585.91	3/4	1,889.28	3/4	2,192.65	3/4	2,496.02	3/4	2,799.39
3	86.28	3	383.27	3	686.28	3	988.88	3	1,289.72	3	1,592.23	3	1,895.60	3	2,198.97	3	2,502.34	3	2,805.71
1/4	92.39	1/4	389.49	1/4	692.59	1/4	995.20	1/4	1,295.89	1/4	1,598.55	1/4	1,901.92	1/4	2,205.29	1/4	2,508.66	1/4	2,812.03
1/2	98.51	1/2	395.71	1/2	698.90	1/2	1,001.52	1/2	1,302.07	1/2	1,604.87	1/2	1,908.24	1/2	2,211.61	1/2	2,514.98	1/2	2,818.35
3/4	104.62	3/4	401.93	3/4	705.21	3/4	1,007.85	3/4	1,308.25	3/4	1,611.19	3/4	1,914.56	3/4	2,217.93	3/4	2,521.30	3/4	2,824.67
4	110.74	4	408.15	4	711.52	4	1,014.17	4	1,314.43	4	1,617.51	4	1,920.88	4	2,224.25	4	2,527.62	4	2,830.99
1/4	116.86	1/4	414.47	1/4	717.82	1/4	1,020.49	1/4	1,320.68	1/4	1,623.83	1/4	1,927.20	1/4	2,230.57	1/4	2,533.94	1/4	2,837.31
1/2	122.98	1/2	420.79	1/2	724.12	1/2	1,026.81	1/2	1,326.93	1/2	1,630.15	1/2	1,933.52	1/2	2,236.89	1/2	2,540.26	1/2	2,843.63
3/4	129.10	3/4	427.11	3/4	730.42	3/4	1,033.13	3/4	1,333.17	3/4	1,636.47	3/4	1,939.84	3/4	2,243.21	3/4	2,546.58	3/4	2,849.95
5	135.21	5	433.44	5	736.71	5	1,039.45	5	1,339.42	5	1,642.79	5	1,946.16	5	2,249.53	5	2,552.90	5	2,856.27
1/4	141.44	1/4	439.76	1/4	743.01	1/4	1,045.77	1/4	1,345.74	1/4	1,649.11	1/4	1,952.48	1/4	2,255.85	1/4	2,559.22	1/4	2,862.59
1/2	147.66	1/2	446.08	1/2	749.31	1/2	1,052.09	1/2	1,352.06	1/2	1,655.43	1/2	1,958.80	1/2	2,262.17	1/2	2,565.54	1/2	2,868.91
3/4	153.88	3/4	452.40	3/4	755.61	3/4	1,058.42	3/4	1,358.38	3/4	1,661.75	3/4	1,965.12	3/4	2,268.49	3/4	2,571.86	3/4	2,875.23
6	160.10	6	458.72	6	761.91	6	1,064.74	6	1,364.70	6	1,668.07	6	1,971.44	6	2,274.81	6	2,578.18	6	2,881.55
1/4	166.42	1/4	465.04	1/4	768.21	1/4	1,071.06	1/4	1,371.02	1/4	1,674.39	1/4	1,977.76	1/4	2,281.13	1/4	2,584.50	1/4	2,887.87
1/2	172.74	1/2	471.36	1/2	774.51	1/2	1,077.38	1/2	1,377.34	1/2	1,680.71	1/2	1,984.08	1/2	2,287.45	1/2	2,590.82	1/2	2,894.19
3/4	179.06	3/4	477.68	3/4	780.81	3/4	1,083.70	3/4	1,383.67	3/4	1,687.03	3/4	1,990.40	3/4	2,293.77	3/4	2,597.14	3/4	2,900.51
7	185.38	7	484.00	7	787.11	7	1,090.02	7	1,389.99	7	1,693.35	7	1,996.72	7	2,300.09	7	2,603.46	7	2,906.83
1/4	191.70	1/4	490.32	1/4	793.41	1/4	1,096.34	1/4	1,396.31	1/4	1,699.68	1/4	2,003.04	1/4	2,306.41	1/4	2,609.78	1/4	2,913.15
1/2	198.02	1/2	496.65	1/2	799.71	1/2	1,102.66	1/2	1,402.63	1/2	1,706.00	1/2	2,009.36	1/2	2,312.73	1/2	2,616.10	1/2	2,919.47
3/4	204.34	3/4	502.97	3/4	806.01	3/4	1,108.99	3/4	1,408.95	3/4	1,712.32	3/4	2,015.69	3/4	2,319.05	3/4	2,622.42	3/4	2,925.79
8	210.66	8	509.29	8	812.31	8	1,115.31	8	1,415.27	8	1,718.64	8	2,022.01	8	2,325.37	8	2,628.74	8	2,932.11
1/4	216.99	1/4	515.61	1/4	818.61	1/4	1,121.63	1/4	1,421.59	1/4	1,724.96	1/4	2,028.33	1/4	2,331.70	1/4	2,635.06	1/4	2,938.43
1/2	223.31	1/2	521.93	1/2	824.91	1/2	1,127.95	1/2	1,427.91	1/2	1,731.28	1/2	2,034.65	1/2	2,338.02	1/2	2,641.38	1/2	2,944.75
3/4	229.63	3/4	528.25	3/4	831.21	3/4	1,134.27	3/4	1,434.23	3/4	1,737.60	3/4	2,040.97	3/4	2,344.34	3/4	2,647.71	3/4	2,951.07
9	235.95	9	534.57	9	837.51	9	1,140.59	9	1,440.55	9	1,743.92	9	2,047.29	9	2,350.66	9	2,654.03	9	2,957.39
1/4	242.17	1/4	540.89	1/4	843.81	1/4	1,146.91	1/4	1,446.87	1/4	1,750.24	1/4	2,053.61	1/4	2,356.98	1/4	2,660.35	1/4	2,963.72
1/2	248.39	1/2	547.21	1/2	850.11	1/2	1,153.23	1/2	1,453.19	1/2	1,756.56	1/2	2,059.93	1/2	2,363.30	1/2	2,666.67	1/2	2,970.04
3/4	254.61	3/4	553.53	3/4	856.41	3/4	1,159.55	3/4	1,459.51	3/4	1,762.88	3/4	2,066.25	3/4	2,369.62	3/4	2,672.99	3/4	2,976.36
10	260.83	10	559.86	10	862.71	10	1,165.88	10	1,465.83	10	1,769.20	10	2,072.57	10	2,375.94	10	2,679.31	10	2,982.68
1/4	266.96	1/4	566.18	1/4	869.01	1/4	1,172.13	1/4	1,472.15	1/4	1,775.52	1/4	2,078.89	1/4	2,382.26	1/4	2,685.63	1/4	2,989.00
1/2	273.08	1/2	572.50	1/2	875.31	1/2	1,178.37	1/2	1,478.47	1/2	1,781.84	1/2	2,085.21	1/2	2,388.58	1/2	2,691.95	1/2	2,995.32
3/4	279.20	3/4	578.82	3/4	881.61	3/4	1,184.62	3/4	1,484.79	3/4	1,788.16	3/4	2,091.53	3/4	2,394.90	3/4	2,698.27	3/4	3,001.64
11	285.32	11	585.14	11	887.91	11	1,190.87	11	1,491.11	11	1,794.48	11	2,097.85	11	2,401.22	11	2,704.59	11	3,007.96
1/4	291.44	1/4	591.46	1/4	894.22	1/4	1,197.05	1/4	1,497.43	1/4	1,800.80	1/4	2,104.17	1/4	2,407.54	1/4	2,710.91	1/4	3,014.28
1/2	297.56	1/2	597.78	1/2	900.52	1/2	1,203.23	1/2	1,503.75	1/2	1,807.12	1/2	2,110.49	1/2	2,413.86	1/2	2,717.23	1/2	3,020.60
3/4	303.68	3/4	604.10	3/4	906.82	3/4	1,209.41	3/4	1,510.07	3/4	1,813.44	3/4	2,116.81	3/4	2,420.18	3/4	2,723.55	3/4	3,026.92

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.
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 37'-09" 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 "MM 316"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,033.24	0	3,336.59	0	3,639.09	0	3,941.59	0	4,242.62	0		0		0		0		0	
1/4	3,039.56	1/4	3,342.89	1/4	3,645.39	1/4	3,947.89	1/4	4,248.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,045.88	1/2	3,349.19	1/2	3,651.69	1/2	3,954.19	1/2	4,254.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,052.20	3/4	3,355.49	3/4	3,657.99	3/4	3,960.49	3/4	4,260.50	3/4		3/4		3/4		3/4		3/4	
1	3,058.52	1	3,361.79	1	3,664.30	1	3,966.80	1	4,266.46	1		1		1		1		1	
1/4	3,064.84	1/4	3,368.10	1/4	3,670.60	1/4	3,973.10	1/4	4,271.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,071.16	1/2	3,374.40	1/2	3,676.90	1/2	3,979.40	1/2	4,276.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,077.48	3/4	3,380.70	3/4	3,683.20	3/4	3,985.70	3/4	4,282.02	3/4		3/4		3/4		3/4		3/4	
2	3,083.80	2	3,387.00	2	3,689.50	2	3,992.00	2	4,287.20	2		2		2		2		2	
1/4	3,090.12	1/4	3,393.31	1/4	3,695.81	1/4	3,998.31	1/4	4,291.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,096.44	1/2	3,399.61	1/2	3,702.11	1/2	4,004.61	1/2	4,295.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,102.76	3/4	3,405.91	3/4	3,708.41	3/4	4,010.91	3/4	4,299.60	3/4		3/4		3/4		3/4		3/4	
3	3,109.08	3	3,412.21	3	3,714.71	3	4,017.21	3	4,303.73	3		3		3		3		3	
1/4	3,115.40	1/4	3,418.51	1/4	3,721.01	1/4	4,023.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,121.72	1/2	3,424.82	1/2	3,727.32	1/2	4,029.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,128.04	3/4	3,431.12	3/4	3,733.62	3/4	4,036.12	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,134.36	4	3,437.42	4	3,739.92	4	4,042.42	4		4		4		4		4		4	
1/4	3,140.68	1/4	3,443.72	1/4	3,746.22	1/4	4,048.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,147.00	1/2	3,450.02	1/2	3,752.53	1/2	4,055.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,153.32	3/4	3,456.33	3/4	3,758.83	3/4	4,061.33	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,159.64	5	3,462.63	5	3,765.13	5	4,067.63	5		5		5		5		5		5	
1/4	3,165.96	1/4	3,468.93	1/4	3,771.43	1/4	4,073.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,172.28	1/2	3,475.23	1/2	3,777.73	1/2	4,080.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,178.60	3/4	3,481.53	3/4	3,784.04	3/4	4,086.54	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,184.92	6	3,487.84	6	3,790.34	6	4,092.84	6		6		6		6		6		6	
1/4	3,191.24	1/4	3,494.14	1/4	3,796.64	1/4	4,099.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,197.56	1/2	3,500.44	1/2	3,802.94	1/2	4,105.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,203.88	3/4	3,506.74	3/4	3,809.24	3/4	4,111.66	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,210.20	7	3,513.05	7	3,815.55	7	4,117.93	7		7		7		7		7		7	
1/4	3,216.52	1/4	3,519.35	1/4	3,821.85	1/4	4,124.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,222.84	1/2	3,525.65	1/2	3,828.15	1/2	4,130.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,229.16	3/4	3,531.95	3/4	3,834.45	3/4	4,136.65	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,235.48	8	3,538.25	8	3,840.75	8	4,142.89	8		8		8		8		8		8	
1/4	3,241.80	1/4	3,544.56	1/4	3,847.06	1/4	4,149.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.12	1/2	3,550.86	1/2	3,853.36	1/2	4,155.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,254.44	3/4	3,557.16	3/4	3,859.66	3/4	4,161.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,260.76	9	3,563.46	9	3,865.96	9	4,167.85	9		9		9		9		9		9	
1/4	3,267.08	1/4	3,569.76	1/4	3,872.27	1/4	4,174.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.40	1/2	3,576.07	1/2	3,878.57	1/2	4,180.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.73	3/4	3,582.37	3/4	3,884.87	3/4	4,186.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,286.05	10	3,588.67	10	3,891.17	10	4,192.80	10		10		10		10		10		10	
1/4	3,292.37	1/4	3,594.97	1/4	3,897.47	1/4	4,199.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,298.69	1/2	3,601.27	1/2	3,903.78	1/2	4,205.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.01	3/4	3,607.58	3/4	3,910.08	3/4	4,211.50	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,311.33	11	3,613.88	11	3,916.38	11	4,217.74	11		11		11		11		11		11	
1/4	3,317.64	1/4	3,620.18	1/4	3,922.68	1/4	4,223.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,323.96	1/2	3,626.48	1/2	3,928.98	1/2	4,230.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,330.27	3/4	3,632.79	3/4	3,935.29	3/4	4,236.40	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	20.88	0	309.94	0	610.69	0	904.04	0	1,202.72	0	1,503.66	0	1,807.16	0	2,110.66	0	2,414.16	0	2,717.66
1/4	25.42	1/4	316.07	1/4	617.01	1/4	910.07	1/4	1,208.90	1/4	1,509.98	1/4	1,813.48	1/4	2,116.98	1/4	2,420.48	1/4	2,723.98
1/2	29.97	1/2	322.19	1/2	623.34	1/2	916.10	1/2	1,215.09	1/2	1,516.31	1/2	1,819.80	1/2	2,123.30	1/2	2,426.80	1/2	2,730.30
3/4	34.51	3/4	328.31	3/4	629.66	3/4	922.13	3/4	1,221.27	3/4	1,522.63	3/4	1,826.13	3/4	2,129.63	3/4	2,433.13	3/4	2,736.62
1	39.05	1	334.44	1	635.98	1	928.15	1	1,227.45	1	1,528.95	1	1,832.45	1	2,135.95	1	2,439.45	1	2,742.95
1/4	44.77	1/4	340.56	1/4	642.31	1/4	934.19	1/4	1,233.63	1/4	1,535.27	1/4	1,838.77	1/4	2,142.27	1/4	2,445.77	1/4	2,749.27
1/2	50.48	1/2	346.69	1/2	648.63	1/2	940.23	1/2	1,239.81	1/2	1,541.60	1/2	1,845.10	1/2	2,148.60	1/2	2,452.09	1/2	2,755.59
3/4	56.19	3/4	352.81	3/4	654.95	3/4	946.27	3/4	1,245.99	3/4	1,547.92	3/4	1,851.42	3/4	2,154.92	3/4	2,458.42	3/4	2,761.92
2	61.90	2	358.94	2	661.28	2	952.30	2	1,252.17	2	1,554.24	2	1,857.74	2	2,161.24	2	2,464.74	2	2,768.24
1/4	68.01	1/4	365.06	1/4	667.60	1/4	958.35	1/4	1,258.35	1/4	1,560.57	1/4	1,864.06	1/4	2,167.56	1/4	2,471.06	1/4	2,774.56
1/2	74.11	1/2	371.18	1/2	673.93	1/2	964.39	1/2	1,264.53	1/2	1,566.89	1/2	1,870.39	1/2	2,173.89	1/2	2,477.39	1/2	2,780.89
3/4	80.21	3/4	377.31	3/4	680.25	3/4	970.44	3/4	1,270.71	3/4	1,573.21	3/4	1,876.71	3/4	2,180.21	3/4	2,483.71	3/4	2,787.21
3	86.31	3	383.43	3	686.57	3	976.48	3	1,276.89	3	1,579.53	3	1,883.03	3	2,186.53	3	2,490.03	3	2,793.53
1/4	92.43	1/4	389.66	1/4	692.75	1/4	982.67	1/4	1,283.07	1/4	1,585.86	1/4	1,889.36	1/4	2,192.86	1/4	2,496.35	1/4	2,799.85
1/2	98.55	1/2	395.88	1/2	698.92	1/2	988.85	1/2	1,289.25	1/2	1,592.18	1/2	1,895.68	1/2	2,199.18	1/2	2,502.68	1/2	2,806.18
3/4	104.67	3/4	402.11	3/4	705.09	3/4	995.04	3/4	1,295.43	3/4	1,598.50	3/4	1,902.00	3/4	2,205.50	3/4	2,509.00	3/4	2,812.50
4	110.79	4	408.33	4	711.27	4	1,001.22	4	1,301.61	4	1,604.83	4	1,908.32	4	2,211.82	4	2,515.32	4	2,818.82
1/4	116.91	1/4	414.65	1/4	717.29	1/4	1,007.55	1/4	1,307.86	1/4	1,611.15	1/4	1,914.65	1/4	2,218.15	1/4	2,521.65	1/4	2,825.15
1/2	123.03	1/2	420.98	1/2	723.31	1/2	1,013.87	1/2	1,314.11	1/2	1,617.47	1/2	1,920.97	1/2	2,224.47	1/2	2,527.97	1/2	2,831.47
3/4	129.15	3/4	427.30	3/4	729.34	3/4	1,020.19	3/4	1,320.37	3/4	1,623.79	3/4	1,927.29	3/4	2,230.79	3/4	2,534.29	3/4	2,837.79
5	135.27	5	433.62	5	735.36	5	1,026.52	5	1,326.62	5	1,630.12	5	1,933.62	5	2,237.12	5	2,540.61	5	2,844.11
1/4	141.50	1/4	439.95	1/4	741.38	1/4	1,032.84	1/4	1,332.94	1/4	1,636.44	1/4	1,939.94	1/4	2,243.44	1/4	2,546.94	1/4	2,850.44
1/2	147.72	1/2	446.27	1/2	747.41	1/2	1,039.16	1/2	1,339.26	1/2	1,642.76	1/2	1,946.26	1/2	2,249.76	1/2	2,553.26	1/2	2,856.76
3/4	153.94	3/4	452.60	3/4	753.43	3/4	1,045.49	3/4	1,345.59	3/4	1,649.09	3/4	1,952.59	3/4	2,256.08	3/4	2,559.58	3/4	2,863.08
6	160.17	6	458.92	6	759.46	6	1,051.81	6	1,351.91	6	1,655.41	6	1,958.91	6	2,262.41	6	2,565.91	6	2,869.41
1/4	166.49	1/4	465.24	1/4	765.48	1/4	1,058.14	1/4	1,358.23	1/4	1,661.73	1/4	1,965.23	1/4	2,268.73	1/4	2,572.23	1/4	2,875.73
1/2	172.81	1/2	471.57	1/2	771.50	1/2	1,064.46	1/2	1,364.56	1/2	1,668.05	1/2	1,971.55	1/2	2,275.05	1/2	2,578.55	1/2	2,882.05
3/4	179.14	3/4	477.89	3/4	777.53	3/4	1,070.78	3/4	1,370.88	3/4	1,674.38	3/4	1,977.88	3/4	2,281.38	3/4	2,584.88	3/4	2,888.37
7	185.46	7	484.21	7	783.55	7	1,077.11	7	1,377.20	7	1,680.70	7	1,984.20	7	2,287.70	7	2,591.20	7	2,894.70
1/4	191.79	1/4	490.54	1/4	789.58	1/4	1,083.43	1/4	1,383.52	1/4	1,687.02	1/4	1,990.52	1/4	2,294.02	1/4	2,597.52	1/4	2,901.02
1/2	198.11	1/2	496.86	1/2	795.60	1/2	1,089.76	1/2	1,389.85	1/2	1,693.35	1/2	1,996.85	1/2	2,300.34	1/2	2,603.84	1/2	2,907.34
3/4	204.43	3/4	503.19	3/4	801.62	3/4	1,096.08	3/4	1,396.17	3/4	1,699.67	3/4	2,003.17	3/4	2,306.67	3/4	2,610.17	3/4	2,913.67
8	210.76	8	509.51	8	807.65	8	1,102.40	8	1,402.49	8	1,705.99	8	2,009.49	8	2,312.99	8	2,616.49	8	2,919.99
1/4	217.08	1/4	515.83	1/4	813.67	1/4	1,108.73	1/4	1,408.82	1/4	1,712.32	1/4	2,015.81	1/4	2,319.31	1/4	2,622.81	1/4	2,926.31
1/2	223.40	1/2	522.16	1/2	819.69	1/2	1,115.05	1/2	1,415.14	1/2	1,718.64	1/2	2,022.14	1/2	2,325.64	1/2	2,629.14	1/2	2,932.63
3/4	229.73	3/4	528.48	3/4	825.72	3/4	1,121.38	3/4	1,421.46	3/4	1,724.96	3/4	2,028.46	3/4	2,331.96	3/4	2,635.46	3/4	2,938.96
9	236.05	9	534.80	9	831.74	9	1,127.70	9	1,427.78	9	1,731.28	9	2,034.78	9	2,338.28	9	2,641.78	9	2,945.28
1/4	242.28	1/4	541.13	1/4	837.77	1/4	1,134.02	1/4	1,434.11	1/4	1,737.61	1/4	2,041.11	1/4	2,344.61	1/4	2,648.10	1/4	2,951.60
1/2	248.50	1/2	547.45	1/2	843.79	1/2	1,140.35	1/2	1,440.43	1/2	1,743.93	1/2	2,047.43	1/2	2,350.93	1/2	2,654.43	1/2	2,957.93
3/4	254.72	3/4	553.78	3/4	849.81	3/4	1,146.67	3/4	1,446.75	3/4	1,750.25	3/4	2,053.75	3/4	2,357.25	3/4	2,660.75	3/4	2,964.25
10	260.95	10	560.10	10	855.84	10	1,152.99	10	1,453.08	10	1,756.58	10	2,060.07	10	2,363.57	10	2,667.07	10	2,970.57
1/4	267.07	1/4	566.42	1/4	861.86	1/4	1,159.25	1/4	1,459.40	1/4	1,762.90	1/4	2,066.40	1/4	2,369.90	1/4	2,673.40	1/4	2,976.90
1/2	273.20	1/2	572.75	1/2	867.88	1/2	1,165.50	1/2	1,465.72	1/2	1,769.22	1/2	2,072.72	1/2	2,376.22	1/2	2,679.72	1/2	2,983.22
3/4	279.32	3/4	579.07	3/4	873.91	3/4	1,171.75	3/4	1,472.04	3/4	1,775.54	3/4	2,079.04	3/4	2,382.54	3/4	2,686.04	3/4	2,989.54
11	285.44	11	585.39	11	879.93	11	1,178.00	11	1,478.37	11	1,781.87	11	2,085.37	11	2,388.87	11	2,692.36	11	2,995.86
1/4	291.57	1/4	591.72	1/4	885.96	1/4	1,184.18	1/4	1,484.69	1/4	1,788.19	1/4	2,091.69	1/4	2,395.19	1/4	2,698.69	1/4	3,002.19
1/2	297.69	1/2	598.04	1/2	891.99	1/2	1,190.36	1/2	1,491.01	1/2	1,794.51	1/2	2,098.01	1/2	2,401.51	1/2	2,705.01	1/2	3,008.51
3/4	303.82	3/4	604.36	3/4	898.01	3/4	1,196.54	3/4	1,497.34	3/4	1,800.84	3/4	2,104.33	3/4	2,407.83	3/4	2,711.33	3/4	3,014.83

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 34'-09" 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 "MM 316"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	3,021.16	0	3,324.63	0	3,627.26	0	3,929.89	0	4,231.07	0		0		0		0		0	
1/4	3,027.48	1/4	3,330.94	1/4	3,633.57	1/4	3,936.20	1/4	4,237.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,033.80	1/2	3,337.24	1/2	3,639.87	1/2	3,942.50	1/2	4,242.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,040.12	3/4	3,343.55	3/4	3,646.18	3/4	3,948.81	3/4	4,248.96	3/4		3/4		3/4		3/4		3/4	
1	3,046.45	1	3,349.85	1	3,652.48	1	3,955.11	1	4,254.92	1		1		1		1		1	
1/4	3,052.77	1/4	3,356.16	1/4	3,658.79	1/4	3,961.42	1/4	4,260.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,059.09	1/2	3,362.46	1/2	3,665.09	1/2	3,967.72	1/2	4,265.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,065.42	3/4	3,368.77	3/4	3,671.40	3/4	3,974.03	3/4	4,270.48	3/4		3/4		3/4		3/4		3/4	
2	3,071.74	2	3,375.07	2	3,677.70	2	3,980.33	2	4,275.67	2		2		2		2		2	
1/4	3,078.06	1/4	3,381.38	1/4	3,684.01	1/4	3,986.64	1/4	4,279.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,084.38	1/2	3,387.68	1/2	3,690.31	1/2	3,992.94	1/2	4,283.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,090.71	3/4	3,393.99	3/4	3,696.62	3/4	3,999.25	3/4	4,288.07	3/4		3/4		3/4		3/4		3/4	
3	3,097.03	3	3,400.29	3	3,702.92	3	4,005.55	3	4,292.21	3		3		3		3		3	
1/4	3,103.35	1/4	3,406.60	1/4	3,709.23	1/4	4,011.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,109.68	1/2	3,412.90	1/2	3,715.53	1/2	4,018.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,116.00	3/4	3,419.21	3/4	3,721.84	3/4	4,024.47	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,122.32	4	3,425.51	4	3,728.14	4	4,030.77	4		4		4		4		4		4	
1/4	3,128.64	1/4	3,431.82	1/4	3,734.45	1/4	4,037.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,134.97	1/2	3,438.12	1/2	3,740.75	1/2	4,043.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,141.29	3/4	3,444.43	3/4	3,747.06	3/4	4,049.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,147.61	5	3,450.73	5	3,753.36	5	4,055.99	5		5		5		5		5		5	
1/4	3,153.94	1/4	3,457.03	1/4	3,759.67	1/4	4,062.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,160.26	1/2	3,463.34	1/2	3,765.97	1/2	4,068.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,166.58	3/4	3,469.64	3/4	3,772.27	3/4	4,074.91	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,172.90	6	3,475.95	6	3,778.58	6	4,081.21	6		6		6		6		6		6	
1/4	3,179.23	1/4	3,482.25	1/4	3,784.88	1/4	4,087.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,185.55	1/2	3,488.56	1/2	3,791.19	1/2	4,093.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,191.87	3/4	3,494.86	3/4	3,797.49	3/4	4,100.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,198.20	7	3,501.17	7	3,803.80	7	4,106.31	7		7		7		7		7		7	
1/4	3,204.52	1/4	3,507.47	1/4	3,810.10	1/4	4,112.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,210.84	1/2	3,513.78	1/2	3,816.41	1/2	4,118.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,217.17	3/4	3,520.08	3/4	3,822.71	3/4	4,125.04	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,223.49	8	3,526.39	8	3,829.02	8	4,131.28	8		8		8		8		8		8	
1/4	3,229.81	1/4	3,532.69	1/4	3,835.32	1/4	4,137.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,236.13	1/2	3,539.00	1/2	3,841.63	1/2	4,143.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,242.46	3/4	3,545.30	3/4	3,847.93	3/4	4,150.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,248.78	9	3,551.61	9	3,854.24	9	4,156.25	9		9		9		9		9		9	
1/4	3,255.10	1/4	3,557.91	1/4	3,860.54	1/4	4,162.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,261.43	1/2	3,564.22	1/2	3,866.85	1/2	4,168.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,267.75	3/4	3,570.52	3/4	3,873.15	3/4	4,174.98	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,274.07	10	3,576.83	10	3,879.46	10	4,181.22	10		10		10		10		10		10	
1/4	3,280.39	1/4	3,583.13	1/4	3,885.76	1/4	4,187.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,286.72	1/2	3,589.44	1/2	3,892.07	1/2	4,193.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,293.04	3/4	3,595.74	3/4	3,898.37	3/4	4,199.94	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,299.36	11	3,602.05	11	3,904.68	11	4,206.17	11		11		11		11		11		11	
1/4	3,305.68	1/4	3,608.35	1/4	3,910.98	1/4	4,212.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,312.00	1/2	3,614.65	1/2	3,917.29	1/2	4,218.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,318.32	3/4	3,620.96	3/4	3,923.59	3/4	4,224.84	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

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	20.87	0	309.81	0	610.42	0	913.12	0	1,215.58	0	1,516.39	0	1,819.76	0	2,123.13	0	2,426.50	0	2,729.87
1/4	25.41	1/4	315.93	1/4	616.74	1/4	919.43	1/4	1,221.76	1/4	1,522.71	1/4	1,826.08	1/4	2,129.45	1/4	2,432.82	1/4	2,736.19
1/2	29.95	1/2	322.05	1/2	623.07	1/2	925.73	1/2	1,227.94	1/2	1,529.03	1/2	1,832.40	1/2	2,135.77	1/2	2,439.14	1/2	2,742.51
3/4	34.50	3/4	328.17	3/4	629.39	3/4	932.04	3/4	1,234.12	3/4	1,535.35	3/4	1,838.72	3/4	2,142.09	3/4	2,445.46	3/4	2,748.83
1	39.04	1	334.29	1	635.71	1	938.34	1	1,240.29	1	1,541.67	1	1,845.04	1	2,148.41	1	2,451.78	1	2,755.15
1/4	44.75	1/4	340.41	1/4	642.03	1/4	944.66	1/4	1,246.47	1/4	1,547.99	1/4	1,851.36	1/4	2,154.73	1/4	2,458.10	1/4	2,761.47
1/2	50.46	1/2	346.54	1/2	648.35	1/2	950.97	1/2	1,252.65	1/2	1,554.31	1/2	1,857.68	1/2	2,161.05	1/2	2,464.42	1/2	2,767.79
3/4	56.17	3/4	352.66	3/4	654.67	3/4	957.28	3/4	1,258.83	3/4	1,560.63	3/4	1,864.00	3/4	2,167.37	3/4	2,470.74	3/4	2,774.11
2	61.88	2	358.78	2	660.99	2	963.60	2	1,265.01	2	1,566.95	2	1,870.32	2	2,173.69	2	2,477.06	2	2,780.43
1/4	67.98	1/4	364.90	1/4	667.31	1/4	969.92	1/4	1,271.18	1/4	1,573.27	1/4	1,876.64	1/4	2,180.01	1/4	2,483.38	1/4	2,786.75
1/2	74.08	1/2	371.02	1/2	673.63	1/2	976.24	1/2	1,277.36	1/2	1,579.59	1/2	1,882.96	1/2	2,186.33	1/2	2,489.70	1/2	2,793.07
3/4	80.18	3/4	377.14	3/4	679.95	3/4	982.56	3/4	1,283.54	3/4	1,585.91	3/4	1,889.28	3/4	2,192.65	3/4	2,496.02	3/4	2,799.39
3	86.28	3	383.27	3	686.28	3	988.88	3	1,289.72	3	1,592.23	3	1,895.60	3	2,198.97	3	2,502.34	3	2,805.71
1/4	92.39	1/4	389.49	1/4	692.59	1/4	995.20	1/4	1,295.89	1/4	1,598.55	1/4	1,901.92	1/4	2,205.29	1/4	2,508.66	1/4	2,812.03
1/2	98.51	1/2	395.71	1/2	698.90	1/2	1,001.52	1/2	1,302.07	1/2	1,604.87	1/2	1,908.24	1/2	2,211.61	1/2	2,514.98	1/2	2,818.35
3/4	104.62	3/4	401.93	3/4	705.21	3/4	1,007.85	3/4	1,308.25	3/4	1,611.19	3/4	1,914.56	3/4	2,217.93	3/4	2,521.30	3/4	2,824.67
4	110.74	4	408.15	4	711.52	4	1,014.17	4	1,314.43	4	1,617.51	4	1,920.88	4	2,224.25	4	2,527.62	4	2,830.99
1/4	116.86	1/4	414.47	1/4	717.82	1/4	1,020.49	1/4	1,320.68	1/4	1,623.83	1/4	1,927.20	1/4	2,230.57	1/4	2,533.94	1/4	2,837.31
1/2	122.98	1/2	420.79	1/2	724.12	1/2	1,026.81	1/2	1,326.93	1/2	1,630.15	1/2	1,933.52	1/2	2,236.89	1/2	2,540.26	1/2	2,843.63
3/4	129.10	3/4	427.11	3/4	730.42	3/4	1,033.13	3/4	1,333.17	3/4	1,636.47	3/4	1,939.84	3/4	2,243.21	3/4	2,546.58	3/4	2,849.95
5	135.21	5	433.44	5	736.71	5	1,039.45	5	1,339.42	5	1,642.79	5	1,946.16	5	2,249.53	5	2,552.90	5	2,856.27
1/4	141.44	1/4	439.76	1/4	743.01	1/4	1,045.77	1/4	1,345.74	1/4	1,649.11	1/4	1,952.48	1/4	2,255.85	1/4	2,559.22	1/4	2,862.59
1/2	147.66	1/2	446.08	1/2	749.31	1/2	1,052.09	1/2	1,352.06	1/2	1,655.43	1/2	1,958.80	1/2	2,262.17	1/2	2,565.54	1/2	2,868.91
3/4	153.88	3/4	452.40	3/4	755.61	3/4	1,058.42	3/4	1,358.38	3/4	1,661.75	3/4	1,965.12	3/4	2,268.49	3/4	2,571.86	3/4	2,875.23
6	160.10	6	458.72	6	761.91	6	1,064.74	6	1,364.70	6	1,668.07	6	1,971.44	6	2,274.81	6	2,578.18	6	2,881.55
1/4	166.42	1/4	465.04	1/4	768.21	1/4	1,071.06	1/4	1,371.02	1/4	1,674.39	1/4	1,977.76	1/4	2,281.13	1/4	2,584.50	1/4	2,887.87
1/2	172.74	1/2	471.36	1/2	774.51	1/2	1,077.38	1/2	1,377.34	1/2	1,680.71	1/2	1,984.08	1/2	2,287.45	1/2	2,590.82	1/2	2,894.19
3/4	179.06	3/4	477.68	3/4	780.81	3/4	1,083.70	3/4	1,383.67	3/4	1,687.03	3/4	1,990.40	3/4	2,293.77	3/4	2,597.14	3/4	2,900.51
7	185.38	7	484.00	7	787.11	7	1,090.02	7	1,389.99	7	1,693.35	7	1,996.72	7	2,300.09	7	2,603.46	7	2,906.83
1/4	191.70	1/4	490.32	1/4	793.41	1/4	1,096.34	1/4	1,396.31	1/4	1,699.68	1/4	2,003.04	1/4	2,306.41	1/4	2,609.78	1/4	2,913.15
1/2	198.02	1/2	496.65	1/2	799.71	1/2	1,102.66	1/2	1,402.63	1/2	1,706.00	1/2	2,009.36	1/2	2,312.73	1/2	2,616.10	1/2	2,919.47
3/4	204.34	3/4	502.97	3/4	806.01	3/4	1,108.99	3/4	1,408.95	3/4	1,712.32	3/4	2,015.69	3/4	2,319.05	3/4	2,622.42	3/4	2,925.79
8	210.66	8	509.29	8	812.31	8	1,115.31	8	1,415.27	8	1,718.64	8	2,022.01	8	2,325.37	8	2,628.74	8	2,932.11
1/4	216.99	1/4	515.61	1/4	818.61	1/4	1,121.63	1/4	1,421.59	1/4	1,724.96	1/4	2,028.33	1/4	2,331.70	1/4	2,635.06	1/4	2,938.43
1/2	223.31	1/2	521.93	1/2	824.91	1/2	1,127.95	1/2	1,427.91	1/2	1,731.28	1/2	2,034.65	1/2	2,338.02	1/2	2,641.38	1/2	2,944.75
3/4	229.63	3/4	528.25	3/4	831.21	3/4	1,134.27	3/4	1,434.23	3/4	1,737.60	3/4	2,040.97	3/4	2,344.34	3/4	2,647.71	3/4	2,951.07
9	235.95	9	534.57	9	837.51	9	1,140.59	9	1,440.55	9	1,743.92	9	2,047.29	9	2,350.66	9	2,654.03	9	2,957.39
1/4	242.17	1/4	540.89	1/4	843.81	1/4	1,146.91	1/4	1,446.87	1/4	1,750.24	1/4	2,053.61	1/4	2,356.98	1/4	2,660.35	1/4	2,963.72
1/2	248.39	1/2	547.21	1/2	850.11	1/2	1,153.23	1/2	1,453.19	1/2	1,756.56	1/2	2,059.93	1/2	2,363.30	1/2	2,666.67	1/2	2,970.04
3/4	254.61	3/4	553.53	3/4	856.41	3/4	1,159.55	3/4	1,459.51	3/4	1,762.88	3/4	2,066.25	3/4	2,369.62	3/4	2,672.99	3/4	2,976.36
10	260.83	10	559.86	10	862.71	10	1,165.88	10	1,465.83	10	1,769.20	10	2,072.57	10	2,375.94	10	2,679.31	10	2,982.68
1/4	266.96	1/4	566.18	1/4	869.01	1/4	1,172.13	1/4	1,472.15	1/4	1,775.52	1/4	2,078.89	1/4	2,382.26	1/4	2,685.63	1/4	2,989.00
1/2	273.08	1/2	572.50	1/2	875.31	1/2	1,178.37	1/2	1,478.47	1/2	1,781.84	1/2	2,085.21	1/2	2,388.58	1/2	2,691.95	1/2	2,995.32
3/4	279.20	3/4	578.82	3/4	881.61	3/4	1,184.62	3/4	1,484.79	3/4	1,788.16	3/4	2,091.53	3/4	2,394.90	3/4	2,698.27	3/4	3,001.64
11	285.32	11	585.14	11	887.91	11	1,190.87	11	1,491.11	11	1,794.48	11	2,097.85	11	2,401.22	11	2,704.59	11	3,007.96
1/4	291.44	1/4	591.46	1/4	894.22	1/4	1,197.05	1/4	1,497.43	1/4	1,800.80	1/4	2,104.17	1/4	2,407.54	1/4	2,710.91	1/4	3,014.28
1/2	297.56	1/2	597.78	1/2	900.52	1/2	1,203.23	1/2	1,503.75	1/2	1,807.12	1/2	2,110.49	1/2	2,413.86	1/2	2,717.23	1/2	3,020.60
3/4	303.68	3/4	604.10	3/4	906.82	3/4	1,209.41	3/4	1,510.07	3/4	1,813.44	3/4	2,116.81	3/4	2,420.18	3/4	2,723.55	3/4	3,026.92

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 34'-09" 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 "MM 316"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,033.24	0	3,336.59	0	3,639.09	0	3,941.59	0	4,242.62	0		0		0		0		0	
1/4	3,039.56	1/4	3,342.89	1/4	3,645.39	1/4	3,947.89	1/4	4,248.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,045.88	1/2	3,349.19	1/2	3,651.69	1/2	3,954.19	1/2	4,254.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,052.20	3/4	3,355.49	3/4	3,657.99	3/4	3,960.49	3/4	4,260.50	3/4		3/4		3/4		3/4		3/4	
1	3,058.52	1	3,361.79	1	3,664.30	1	3,966.80	1	4,266.46	1		1		1		1		1	
1/4	3,064.84	1/4	3,368.10	1/4	3,670.60	1/4	3,973.10	1/4	4,271.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,071.16	1/2	3,374.40	1/2	3,676.90	1/2	3,979.40	1/2	4,276.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,077.48	3/4	3,380.70	3/4	3,683.20	3/4	3,985.70	3/4	4,282.02	3/4		3/4		3/4		3/4		3/4	
2	3,083.80	2	3,387.00	2	3,689.50	2	3,992.00	2	4,287.20	2		2		2		2		2	
1/4	3,090.12	1/4	3,393.31	1/4	3,695.81	1/4	3,998.31	1/4	4,291.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,096.44	1/2	3,399.61	1/2	3,702.11	1/2	4,004.61	1/2	4,295.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,102.76	3/4	3,405.91	3/4	3,708.41	3/4	4,010.91	3/4	4,299.60	3/4		3/4		3/4		3/4		3/4	
3	3,109.08	3	3,412.21	3	3,714.71	3	4,017.21	3	4,303.73	3		3		3		3		3	
1/4	3,115.40	1/4	3,418.51	1/4	3,721.01	1/4	4,023.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,121.72	1/2	3,424.82	1/2	3,727.32	1/2	4,029.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,128.04	3/4	3,431.12	3/4	3,733.62	3/4	4,036.12	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,134.36	4	3,437.42	4	3,739.92	4	4,042.42	4		4		4		4		4		4	
1/4	3,140.68	1/4	3,443.72	1/4	3,746.22	1/4	4,048.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,147.00	1/2	3,450.02	1/2	3,752.53	1/2	4,055.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,153.32	3/4	3,456.33	3/4	3,758.83	3/4	4,061.33	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,159.64	5	3,462.63	5	3,765.13	5	4,067.63	5		5		5		5		5		5	
1/4	3,165.96	1/4	3,468.93	1/4	3,771.43	1/4	4,073.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,172.28	1/2	3,475.23	1/2	3,777.73	1/2	4,080.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,178.60	3/4	3,481.53	3/4	3,784.04	3/4	4,086.54	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,184.92	6	3,487.84	6	3,790.34	6	4,092.84	6		6		6		6		6		6	
1/4	3,191.24	1/4	3,494.14	1/4	3,796.64	1/4	4,099.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,197.56	1/2	3,500.44	1/2	3,802.94	1/2	4,105.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,203.88	3/4	3,506.74	3/4	3,809.24	3/4	4,111.66	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,210.20	7	3,513.05	7	3,815.55	7	4,117.93	7		7		7		7		7		7	
1/4	3,216.52	1/4	3,519.35	1/4	3,821.85	1/4	4,124.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,222.84	1/2	3,525.65	1/2	3,828.15	1/2	4,130.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,229.16	3/4	3,531.95	3/4	3,834.45	3/4	4,136.65	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,235.48	8	3,538.25	8	3,840.75	8	4,142.89	8		8		8		8		8		8	
1/4	3,241.80	1/4	3,544.56	1/4	3,847.06	1/4	4,149.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.12	1/2	3,550.86	1/2	3,853.36	1/2	4,155.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,254.44	3/4	3,557.16	3/4	3,859.66	3/4	4,161.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,260.76	9	3,563.46	9	3,865.96	9	4,167.85	9		9		9		9		9		9	
1/4	3,267.08	1/4	3,569.76	1/4	3,872.27	1/4	4,174.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.40	1/2	3,576.07	1/2	3,878.57	1/2	4,180.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.73	3/4	3,582.37	3/4	3,884.87	3/4	4,186.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,286.05	10	3,588.67	10	3,891.17	10	4,192.80	10		10		10		10		10		10	
1/4	3,292.37	1/4	3,594.97	1/4	3,897.47	1/4	4,199.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,298.69	1/2	3,601.27	1/2	3,903.78	1/2	4,205.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.01	3/4	3,607.58	3/4	3,910.08	3/4	4,211.50	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,311.33	11	3,613.88	11	3,916.38	11	4,217.74	11		11		11		11		11		11	
1/4	3,317.64	1/4	3,620.18	1/4	3,922.68	1/4	4,223.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,323.96	1/2	3,626.48	1/2	3,928.98	1/2	4,230.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,330.27	3/4	3,632.79	3/4	3,935.29	3/4	4,236.40	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-10 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.	IN	10 FT.
0	4.72	0	165.07	0	380.62	0	593.04	0	807.45	0	1,021.96	0	1,239.72	0	1,457.50	0	1,674.98	0	1,892.46	0	
1/4	6.68	1/4	169.47	1/4	385.16	1/4	597.39	1/4	811.89	1/4	1,026.47	1/4	1,244.27	1/4	1,462.04	1/4	1,679.51	1/4	1,896.99	1/4	
1/2	8.64	1/2	173.88	1/2	389.71	1/2	601.74	1/2	816.32	1/2	1,030.97	1/2	1,248.81	1/2	1,466.57	1/2	1,684.04	1/2	1,901.51	1/2	
3/4	10.60	3/4	178.29	3/4	394.25	3/4	606.09	3/4	820.75	3/4	1,035.47	3/4	1,253.36	3/4	1,471.10	3/4	1,688.58	3/4	1,906.04	3/4	
1	12.56	1	182.69	1	398.79	1	610.44	1	825.19	1	1,039.97	1	1,257.90	1	1,475.63	1	1,693.11	1	1,910.56	1	
1/4	14.56	1/4	187.10	1/4	403.34	1/4	614.79	1/4	829.62	1/4	1,044.48	1/4	1,262.45	1/4	1,480.16	1/4	1,697.64	1/4	1,915.06	1/4	
1/2	16.55	1/2	191.51	1/2	407.88	1/2	619.14	1/2	834.05	1/2	1,049.00	1/2	1,266.99	1/2	1,484.69	1/2	1,702.17	1/2	1,919.57	1/2	
3/4	18.55	3/4	195.91	3/4	412.42	3/4	623.50	3/4	838.49	3/4	1,053.51	3/4	1,271.54	3/4	1,489.22	3/4	1,706.70	3/4	1,924.07	3/4	
2	20.54	2	200.32	2	416.97	2	627.85	2	842.92	2	1,058.02	2	1,276.08	2	1,493.75	2	1,711.23	2	1,928.57	2	
1/4	20.82	1/4	204.73	1/4	421.51	1/4	632.21	1/4	847.35	1/4	1,062.56	1/4	1,280.63	1/4	1,498.28	1/4	1,715.76	1/4	1,933.06	1/4	
1/2	21.10	1/2	209.14	1/2	426.06	1/2	636.56	1/2	851.78	1/2	1,067.09	1/2	1,285.18	1/2	1,502.81	1/2	1,720.29	1/2	1,937.54	1/2	
3/4	21.38	3/4	213.54	3/4	430.60	3/4	640.92	3/4	856.22	3/4	1,071.63	3/4	1,289.72	3/4	1,507.34	3/4	1,724.82	3/4	1,942.03	3/4	
3	21.66	3	217.95	3	435.14	3	645.28	3	860.65	3	1,076.17	3	1,294.27	3	1,511.87	3	1,729.35	3	1,946.52	3	
1/4	23.49	1/4	222.36	1/4	439.69	1/4	649.65	1/4	865.08	1/4	1,080.71	1/4	1,298.81	1/4	1,516.40	1/4	1,733.88	1/4	1,951.00	1/4	
1/2	25.33	1/2	226.76	1/2	444.23	1/2	654.02	1/2	869.52	1/2	1,085.25	1/2	1,303.36	1/2	1,520.94	1/2	1,738.41	1/2	1,955.49	1/2	
3/4	27.16	3/4	231.17	3/4	448.77	3/4	658.38	3/4	873.95	3/4	1,089.78	3/4	1,307.90	3/4	1,525.47	3/4	1,742.94	3/4	1,959.97	3/4	
4	28.99	4	235.58	4	453.32	4	662.75	4	878.38	4	1,094.32	4	1,312.45	4	1,530.00	4	1,747.48	4	1,964.46	4	
1/4	31.98	1/4	240.02	1/4	457.81	1/4	667.16	1/4	882.82	1/4	1,098.86	1/4	1,316.99	1/4	1,534.53	1/4	1,752.01	1/4	1,968.94	1/4	
1/2	34.97	1/2	244.46	1/2	462.31	1/2	671.58	1/2	887.25	1/2	1,103.40	1/2	1,321.53	1/2	1,539.06	1/2	1,756.54	1/2	1,973.43	1/2	
3/4	37.96	3/4	248.91	3/4	466.80	3/4	675.99	3/4	891.68	3/4	1,107.94	3/4	1,326.08	3/4	1,543.59	3/4	1,761.07	3/4	1,977.91	3/4	
5	40.94	5	253.35	5	471.30	5	680.40	5	896.12	5	1,112.48	5	1,330.62	5	1,548.12	5	1,765.60	5	1,982.40	5	
1/4	44.93	1/4	257.90	1/4	475.65	1/4	684.94	1/4	900.57	1/4	1,117.02	1/4	1,335.16	1/4	1,552.65	1/4	1,770.13	1/4	1,986.89	1/4	
1/2	48.92	1/2	262.45	1/2	480.00	1/2	689.48	1/2	905.02	1/2	1,121.56	1/2	1,339.69	1/2	1,557.18	1/2	1,774.66	1/2	1,991.38	1/2	
3/4	52.91	3/4	267.00	3/4	484.35	3/4	694.03	3/4	909.47	3/4	1,126.10	3/4	1,344.23	3/4	1,561.71	3/4	1,779.19	3/4	1,995.87	3/4	
6	56.90	6	271.55	6	488.70	6	698.57	6	913.92	6	1,130.64	6	1,348.77	6	1,566.24	6	1,783.72	6	2,000.36	6	
1/4	61.35	1/4	276.10	1/4	493.05	1/4	703.11	1/4	918.42	1/4	1,135.18	1/4	1,353.30	1/4	1,570.77	1/4	1,788.25	1/4	2,004.86	1/4	
1/2	65.81	1/2	280.65	1/2	497.40	1/2	707.65	1/2	922.92	1/2	1,139.73	1/2	1,357.83	1/2	1,575.31	1/2	1,792.78	1/2	2,009.36	1/2	
3/4	70.26	3/4	285.20	3/4	501.74	3/4	712.19	3/4	927.42	3/4	1,144.27	3/4	1,362.36	3/4	1,579.84	3/4	1,797.31	3/4	2,013.86	3/4	
7	74.71	7	289.75	7	506.09	7	716.73	7	931.92	7	1,148.82	7	1,366.89	7	1,584.37	7	1,801.85	7	2,018.36	7	
1/4	79.27	1/4	294.29	1/4	510.44	1/4	721.27	1/4	936.43	1/4	1,153.36	1/4	1,371.42	1/4	1,588.90	1/4	1,806.38	1/4	2,022.68	1/4	
1/2	83.83	1/2	298.83	1/2	514.79	1/2	725.82	1/2	940.93	1/2	1,157.91	1/2	1,375.95	1/2	1,593.43	1/2	1,810.91	1/2	2,026.99	1/2	
3/4	88.40	3/4	303.38	3/4	519.14	3/4	730.36	3/4	945.43	3/4	1,162.45	3/4	1,380.48	3/4	1,597.96	3/4	1,815.44	3/4	2,031.30	3/4	
8	92.96	8	307.92	8	523.48	8	734.90	8	949.93	8	1,167.00	8	1,385.01	8	1,602.49	8	1,819.97	8	2,035.61	8	
1/4	97.51	1/4	312.47	1/4	527.83	1/4	739.44	1/4	954.43	1/4	1,171.54	1/4	1,389.54	1/4	1,607.02	1/4	1,824.50	1/4	2,039.16	1/4	
1/2	102.07	1/2	317.01	1/2	532.18	1/2	743.98	1/2	958.94	1/2	1,176.09	1/2	1,394.07	1/2	1,611.55	1/2	1,829.03	1/2	2,042.71	1/2	
3/4	106.63	3/4	321.55	3/4	536.53	3/4	748.52	3/4	963.44	3/4	1,180.63	3/4	1,398.60	3/4	1,616.08	3/4	1,833.56	3/4	2,046.27	3/4	
9	111.19	9	326.10	9	540.87	9	753.06	9	967.94	9	1,185.18	9	1,403.13	9	1,620.61	9	1,838.09	9	2,049.82	9	
1/4	115.74	1/4	330.64	1/4	545.22	1/4	757.61	1/4	972.44	1/4	1,189.72	1/4	1,407.67	1/4	1,625.14	1/4	1,842.62	1/4	2,052.61	1/4	
1/2	120.29	1/2	335.18	1/2	549.57	1/2	762.15	1/2	976.94	1/2	1,194.27	1/2	1,412.20	1/2	1,629.67	1/2	1,847.15	1/2	2,055.40	1/2	
3/4	124.84	3/4	339.73	3/4	553.92	3/4	766.69	3/4	981.45	3/4	1,198.81	3/4	1,416.73	3/4	1,634.21	3/4	1,851.68	3/4	2,058.19	3/4	
10	129.38	10	344.27	10	558.26	10	771.23	10	985.95	10	1,203.36	10	1,421.26	10	1,638.74	10	1,856.21	10	2,060.98	10	
1/4	133.90	1/4	348.81	1/4	562.61	1/4	775.77	1/4	990.45	1/4	1,207.91	1/4	1,425.79	1/4	1,643.27	1/4	1,860.75	1/4	2,063.01	1/4	
1/2	138.41	1/2	353.36	1/2	566.96	1/2	780.31	1/2	994.95	1/2	1,212.45	1/2	1,430.32	1/2	1,647.80	1/2	1,865.28	1/2	2,065.04	1/2	
3/4	142.93	3/4	357.90	3/4	571.31	3/4	784.86	3/4	999.45	3/4	1,217.00	3/4	1,434.85	3/4	1,652.33	3/4	1,869.81	3/4	2,067.07	3/4	
11	147.44	11	362.44	11	575.65	11	789.40	11	1,003.96	11	1,221.54	11	1,439.38	11	1,656.86	11	1,874.34	11	2,069.10	11	
1/4	151.85	1/4	366.99	1/4	580.00	1/4	793.91	1/4	1,008.46	1/4	1,226.09	1/4	1,443.91	1/4	1,661.39	1/4	1,878.87	1/4	2,070.37	1/4	
1/2	156.25	1/2	371.53	1/2	584.35	1/2	798.43	1/2	1,012.96	1/2	1,230.63	1/2	1,448.44	1/2	1,665.92	1/2	1,883.40	1/2	2,071.64	1/2	
3/4	160.66	3/4	376.08	3/4	588.70	3/4	802.94	3/4	1,017.46	3/4	1,235.18	3/4	1,452.97	3/4	1,670.45	3/4	1,887.93	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

4 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-10 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.	IN	10 FT.
0	4.73	0	165.50	0	380.08	0	596.61	0	813.54	0	1,027.30	0	1,244.11	0	1,460.79	0	1,677.17	0	1,893.54	0	
1/4	6.69	1/4	169.92	1/4	384.60	1/4	601.12	1/4	817.96	1/4	1,031.78	1/4	1,248.63	1/4	1,465.30	1/4	1,681.67	1/4	1,898.04	1/4	
1/2	8.65	1/2	174.33	1/2	389.12	1/2	605.63	1/2	822.38	1/2	1,036.27	1/2	1,253.16	1/2	1,469.81	1/2	1,686.18	1/2	1,902.55	1/2	
3/4	10.62	3/4	178.75	3/4	393.64	3/4	610.13	3/4	826.80	3/4	1,040.75	3/4	1,257.68	3/4	1,474.32	3/4	1,690.69	3/4	1,907.05	3/4	
1	12.58	1	183.16	1	398.16	1	614.64	1	831.21	1	1,045.24	1	1,262.20	1	1,478.82	1	1,695.20	1	1,911.55	1	
1/4	14.58	1/4	187.55	1/4	402.68	1/4	619.15	1/4	835.63	1/4	1,049.74	1/4	1,266.72	1/4	1,483.33	1/4	1,699.71	1/4	1,916.03	1/4	
1/2	16.58	1/2	191.93	1/2	407.20	1/2	623.66	1/2	840.05	1/2	1,054.23	1/2	1,271.25	1/2	1,487.84	1/2	1,704.21	1/2	1,920.51	1/2	
3/4	18.58	3/4	196.31	3/4	411.72	3/4	628.17	3/4	844.46	3/4	1,058.73	3/4	1,275.77	3/4	1,492.35	3/4	1,708.72	3/4	1,924.99	3/4	
2	20.58	2	200.70	2	416.24	2	632.68	2	848.88	2	1,063.22	2	1,280.29	2	1,496.85	2	1,713.23	2	1,929.47	2	
1/4	20.86	1/4	205.08	1/4	420.76	1/4	637.19	1/4	853.30	1/4	1,067.74	1/4	1,284.81	1/4	1,501.36	1/4	1,717.74	1/4	1,933.93	1/4	
1/2	21.15	1/2	209.47	1/2	425.28	1/2	641.70	1/2	857.72	1/2	1,072.27	1/2	1,289.34	1/2	1,505.87	1/2	1,722.24	1/2	1,938.40	1/2	
3/4	21.43	3/4	213.85	3/4	429.80	3/4	646.22	3/4	862.13	3/4	1,076.79	3/4	1,293.86	3/4	1,510.38	3/4	1,726.75	3/4	1,942.86	3/4	
3	21.72	3	218.23	3	434.32	3	650.73	3	866.55	3	1,081.31	3	1,298.38	3	1,514.89	3	1,731.26	3	1,947.32	3	
1/4	23.56	1/4	222.62	1/4	438.84	1/4	655.26	1/4	870.97	1/4	1,085.83	1/4	1,302.90	1/4	1,519.39	1/4	1,735.77	1/4	1,951.78	1/4	
1/2	25.40	1/2	227.00	1/2	443.36	1/2	659.78	1/2	875.39	1/2	1,090.35	1/2	1,307.42	1/2	1,523.90	1/2	1,740.28	1/2	1,956.25	1/2	
3/4	27.24	3/4	231.38	3/4	447.88	3/4	664.31	3/4	879.80	3/4	1,094.88	3/4	1,311.95	3/4	1,528.41	3/4	1,744.78	3/4	1,960.71	3/4	
4	29.08	4	235.77	4	452.41	4	668.83	4	884.22	4	1,099.40	4	1,316.47	4	1,532.92	4	1,749.29	4	1,965.17	4	
1/4	32.07	1/4	240.19	1/4	456.92	1/4	673.36	1/4	888.64	1/4	1,103.92	1/4	1,320.99	1/4	1,537.42	1/4	1,753.80	1/4	1,969.64	1/4	
1/2	35.06	1/2	244.61	1/2	461.44	1/2	677.88	1/2	893.05	1/2	1,108.44	1/2	1,325.51	1/2	1,541.93	1/2	1,758.31	1/2	1,974.10	1/2	
3/4	38.06	3/4	249.03	3/4	465.96	3/4	682.41	3/4	897.47	3/4	1,112.97	3/4	1,330.03	3/4	1,546.44	3/4	1,762.81	3/4	1,978.56	3/4	
5	41.05	5	253.45	5	470.47	5	686.93	5	901.89	5	1,117.49	5	1,334.55	5	1,550.95	5	1,767.32	5	1,983.02	5	
1/4	45.05	1/4	257.98	1/4	474.98	1/4	691.46	1/4	906.32	1/4	1,122.01	1/4	1,339.06	1/4	1,555.46	1/4	1,771.83	1/4	1,987.50	1/4	
1/2	49.04	1/2	262.50	1/2	479.49	1/2	695.99	1/2	910.76	1/2	1,126.53	1/2	1,343.58	1/2	1,559.96	1/2	1,776.34	1/2	1,991.97	1/2	
3/4	53.04	3/4	267.03	3/4	483.99	3/4	700.51	3/4	915.19	3/4	1,131.06	3/4	1,348.09	3/4	1,564.47	3/4	1,780.85	3/4	1,996.45	3/4	
6	57.03	6	271.56	6	488.50	6	705.04	6	919.63	6	1,135.58	6	1,352.60	6	1,568.98	6	1,785.35	6	2,000.92	6	
1/4	61.49	1/4	276.09	1/4	493.01	1/4	709.56	1/4	924.11	1/4	1,140.10	1/4	1,357.11	1/4	1,573.49	1/4	1,789.86	1/4	2,005.43	1/4	
1/2	65.95	1/2	280.61	1/2	497.51	1/2	714.09	1/2	928.60	1/2	1,144.62	1/2	1,361.62	1/2	1,577.99	1/2	1,794.37	1/2	2,009.93	1/2	
3/4	70.41	3/4	285.14	3/4	502.02	3/4	718.61	3/4	933.09	3/4	1,149.14	3/4	1,366.13	3/4	1,582.50	3/4	1,798.88	3/4	2,014.44	3/4	
7	74.87	7	289.66	7	506.53	7	723.14	7	937.57	7	1,153.67	7	1,370.64	7	1,587.01	7	1,803.38	7	2,018.95	7	
1/4	79.44	1/4	294.18	1/4	511.03	1/4	727.67	1/4	942.06	1/4	1,158.19	1/4	1,375.14	1/4	1,591.52	1/4	1,807.89	1/4	2,023.27	1/4	
1/2	84.01	1/2	298.70	1/2	515.53	1/2	732.19	1/2	946.54	1/2	1,162.71	1/2	1,379.65	1/2	1,596.03	1/2	1,812.40	1/2	2,027.58	1/2	
3/4	88.57	3/4	303.23	3/4	520.04	3/4	736.72	3/4	951.03	3/4	1,167.23	3/4	1,384.16	3/4	1,600.53	3/4	1,816.91	3/4	2,031.90	3/4	
8	93.14	8	307.75	8	524.54	8	741.24	8	955.52	8	1,171.76	8	1,388.67	8	1,605.04	8	1,821.42	8	2,036.22	8	
1/4	97.71	1/4	312.27	1/4	529.05	1/4	745.77	1/4	960.00	1/4	1,176.28	1/4	1,393.17	1/4	1,609.55	1/4	1,825.92	1/4	2,039.77	1/4	
1/2	102.27	1/2	316.79	1/2	533.55	1/2	750.29	1/2	964.49	1/2	1,180.80	1/2	1,397.68	1/2	1,614.06	1/2	1,830.43	1/2	2,043.33	1/2	
3/4	106.84	3/4	321.31	3/4	538.06	3/4	754.82	3/4	968.98	3/4	1,185.32	3/4	1,402.19	3/4	1,618.56	3/4	1,834.94	3/4	2,046.89	3/4	
9	111.41	9	325.83	9	542.56	9	759.34	9	973.46	9	1,189.85	9	1,406.70	9	1,623.07	9	1,839.45	9	2,050.44	9	
1/4	115.98	1/4	330.35	1/4	547.07	1/4	763.87	1/4	977.95	1/4	1,194.37	1/4	1,411.21	1/4	1,627.58	1/4	1,843.95	1/4	2,053.24	1/4	
1/2	120.54	1/2	334.87	1/2	551.57	1/2	768.40	1/2	982.43	1/2	1,198.89	1/2	1,415.71	1/2	1,632.09	1/2	1,848.46	1/2	2,056.03	1/2	
3/4	125.11	3/4	339.39	3/4	556.07	3/4	772.92	3/4	986.92	3/4	1,203.41	3/4	1,420.22	3/4	1,636.60	3/4	1,852.97	3/4	2,058.83	3/4	
10	129.68	10	343.91	10	560.58	10	777.45	10	991.41	10	1,207.93	10	1,424.73	10	1,641.10	10	1,857.48	10	2,061.62	10	
1/4	134.21	1/4	348.43	1/4	565.08	1/4	781.97	1/4	995.89	1/4	1,212.46	1/4	1,429.24	1/4	1,645.61	1/4	1,861.99	1/4	2,063.65	1/4	
1/2	138.74	1/2	352.95	1/2	569.59	1/2	786.50	1/2	1,000.38	1/2	1,216.98	1/2	1,433.75	1/2	1,650.12	1/2	1,866.49	1/2	2,065.69	1/2	
3/4	143.27	3/4	357.47	3/4	574.09	3/4	791.02	3/4	1,004.86	3/4	1,221.50	3/4	1,438.25	3/4	1,654.63	3/4	1,871.00	3/4	2,067.72	3/4	
11	147.80	11	361.99	11	578.60	11	795.55	11	1,009.35	11	1,226.02	11	1,442.76	11	1,659.14	11	1,875.51	11	2,069.75	11	
1/4	152.23	1/4	366.51	1/4	583.10	1/4	800.05	1/4	1,013.84	1/4	1,230.55	1/4	1,447.27	1/4	1,663.64	1/4	1,880.02	1/4	2,071.02	1/4	
1/2	156.65	1/2	371.03	1/2	587.61	1/2	804.55	1/2	1,018.32	1/2	1,235.07	1/2	1,451.78	1/2	1,668.15	1/2	1,884.53	1/2	2,072.30	1/2	
3/4	161.08	3/4	375.55	3/4	592.11	3/4	809.05	3/4	1,022.81	3/4	1,239.59	3/4	1,456.28	3/4	1,672.66	3/4	1,889.03	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 06/04/2019 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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