



BARGE "MM 320"

INNAGE TRIM TABLE MMC

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 PORT	00-0/8	- 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 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	- 01-0/8	01-0/8	- 01-5/8	01-5/8	- 02-1/8	02-1/8	- 02-5/8	02-5/8	- 03-1/4	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 01-0/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED INNAGE IS 4'-01 0/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 24, 2019

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

<http://www.pmacorp.net>



BARGE "MM 320"

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	- 03-1/2	03-1/2
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 24, 2019

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

<http://www.pmacorp.net>



BARGE "MM 320"

1 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	13.90	0	196.76	0	434.31	0	679.65	0	925.70	0	1,171.06	0	1,418.30	0	1,665.54	0	1,912.79	0	2,160.03
1/4	16.03	1/4	201.23	1/4	439.46	1/4	684.75	1/4	930.74	1/4	1,176.21	1/4	1,423.45	1/4	1,670.70	1/4	1,917.94	1/4	2,165.18
1/2	18.15	1/2	205.69	1/2	444.61	1/2	689.84	1/2	935.79	1/2	1,181.36	1/2	1,428.60	1/2	1,675.85	1/2	1,923.09	1/2	2,170.33
3/4	20.27	3/4	210.15	3/4	449.77	3/4	694.94	3/4	940.84	3/4	1,186.51	3/4	1,433.75	3/4	1,681.00	3/4	1,928.24	3/4	2,175.48
1	22.39	1	214.62	1	454.92	1	700.04	1	945.88	1	1,191.66	1	1,438.91	1	1,686.15	1	1,933.39	1	2,180.63
1/4	25.56	1/4	219.17	1/4	460.07	1/4	705.15	1/4	950.93	1/4	1,196.81	1/4	1,444.06	1/4	1,691.30	1/4	1,938.54	1/4	2,185.79
1/2	28.72	1/2	223.72	1/2	465.22	1/2	710.26	1/2	955.97	1/2	1,201.96	1/2	1,449.21	1/2	1,696.45	1/2	1,943.69	1/2	2,190.94
3/4	31.88	3/4	228.27	3/4	470.37	3/4	715.37	3/4	961.02	3/4	1,207.11	3/4	1,454.36	3/4	1,701.60	3/4	1,948.84	3/4	2,196.09
2	35.04	2	232.82	2	475.52	2	720.47	2	966.07	2	1,212.27	2	1,459.51	2	1,706.75	2	1,954.00	2	2,201.24
1/4	38.61	1/4	237.46	1/4	480.68	1/4	725.59	1/4	971.11	1/4	1,217.42	1/4	1,464.66	1/4	1,711.90	1/4	1,959.15	1/4	2,206.39
1/2	42.18	1/2	242.09	1/2	485.83	1/2	730.70	1/2	976.16	1/2	1,222.57	1/2	1,469.81	1/2	1,717.05	1/2	1,964.30	1/2	2,211.54
3/4	45.75	3/4	246.73	3/4	490.98	3/4	735.82	3/4	981.21	3/4	1,227.72	3/4	1,474.96	3/4	1,722.20	3/4	1,969.45	3/4	2,216.69
3	49.32	3	251.37	3	496.13	3	740.94	3	986.25	3	1,232.87	3	1,480.11	3	1,727.36	3	1,974.60	3	2,221.84
1/4	52.98	1/4	256.18	1/4	501.25	1/4	746.07	1/4	991.30	1/4	1,238.02	1/4	1,485.26	1/4	1,732.51	1/4	1,979.75	1/4	2,226.99
1/2	56.65	1/2	260.99	1/2	506.38	1/2	751.20	1/2	996.35	1/2	1,243.17	1/2	1,490.41	1/2	1,737.66	1/2	1,984.90	1/2	2,232.14
3/4	60.32	3/4	265.79	3/4	511.50	3/4	756.34	3/4	1,001.39	3/4	1,248.32	3/4	1,495.57	3/4	1,742.81	3/4	1,990.05	3/4	2,237.29
4	63.99	4	270.60	4	516.62	4	761.47	4	1,006.44	4	1,253.47	4	1,500.72	4	1,747.96	4	1,995.20	4	2,242.45
1/4	67.75	1/4	275.58	1/4	521.72	1/4	766.62	1/4	1,011.54	1/4	1,258.62	1/4	1,505.87	1/4	1,753.11	1/4	2,000.35	1/4	2,247.60
1/2	71.51	1/2	280.55	1/2	526.81	1/2	771.77	1/2	1,016.64	1/2	1,263.77	1/2	1,511.02	1/2	1,758.26	1/2	2,005.50	1/2	2,252.75
3/4	75.27	3/4	285.53	3/4	531.91	3/4	776.93	3/4	1,021.73	3/4	1,268.93	3/4	1,516.17	3/4	1,763.41	3/4	2,010.66	3/4	2,257.90
5	79.03	5	290.50	5	537.00	5	782.08	5	1,026.83	5	1,274.08	5	1,521.32	5	1,768.56	5	2,015.81	5	2,263.05
1/4	82.96	1/4	295.57	1/4	542.09	1/4	787.23	1/4	1,031.98	1/4	1,279.23	1/4	1,526.47	1/4	1,773.71	1/4	2,020.96	1/4	2,268.20
1/2	86.89	1/2	300.63	1/2	547.19	1/2	792.38	1/2	1,037.14	1/2	1,284.38	1/2	1,531.62	1/2	1,778.86	1/2	2,026.11	1/2	2,273.35
3/4	90.81	3/4	305.70	3/4	552.28	3/4	797.53	3/4	1,042.29	3/4	1,289.53	3/4	1,536.77	3/4	1,784.02	3/4	2,031.26	3/4	2,278.50
6	94.74	6	310.76	6	557.38	6	802.69	6	1,047.44	6	1,294.68	6	1,541.92	6	1,789.17	6	2,036.41	6	2,283.65
1/4	98.84	1/4	315.89	1/4	562.47	1/4	807.84	1/4	1,052.59	1/4	1,299.83	1/4	1,547.07	1/4	1,794.32	1/4	2,041.56	1/4	2,288.80
1/2	102.94	1/2	321.02	1/2	567.56	1/2	812.99	1/2	1,057.74	1/2	1,304.98	1/2	1,552.23	1/2	1,799.47	1/2	2,046.71	1/2	2,293.95
3/4	107.04	3/4	326.15	3/4	572.66	3/4	818.14	3/4	1,062.89	3/4	1,310.13	3/4	1,557.38	3/4	1,804.62	3/4	2,051.86	3/4	2,299.11
7	111.14	7	331.28	7	577.75	7	823.29	7	1,068.04	7	1,315.28	7	1,562.53	7	1,809.77	7	2,057.01	7	2,304.26
1/4	115.33	1/4	336.43	1/4	582.85	1/4	828.44	1/4	1,073.19	1/4	1,320.43	1/4	1,567.68	1/4	1,814.92	1/4	2,062.16	1/4	2,309.41
1/2	119.52	1/2	341.58	1/2	587.94	1/2	833.60	1/2	1,078.34	1/2	1,325.59	1/2	1,572.83	1/2	1,820.07	1/2	2,067.32	1/2	2,314.56
3/4	123.70	3/4	346.73	3/4	593.03	3/4	838.75	3/4	1,083.49	3/4	1,330.74	3/4	1,577.98	3/4	1,825.22	3/4	2,072.47	3/4	2,319.71
8	127.89	8	351.89	8	598.13	8	843.90	8	1,088.64	8	1,335.89	8	1,583.13	8	1,830.37	8	2,077.62	8	2,324.86
1/4	132.17	1/4	357.04	1/4	603.22	1/4	849.05	1/4	1,093.80	1/4	1,341.04	1/4	1,588.28	1/4	1,835.52	1/4	2,082.77	1/4	2,330.01
1/2	136.44	1/2	362.19	1/2	608.32	1/2	854.20	1/2	1,098.95	1/2	1,346.19	1/2	1,593.43	1/2	1,840.68	1/2	2,087.92	1/2	2,335.16
3/4	140.71	3/4	367.34	3/4	613.41	3/4	859.36	3/4	1,104.10	3/4	1,351.34	3/4	1,598.58	3/4	1,845.83	3/4	2,093.07	3/4	2,340.31
9	144.99	9	372.49	9	618.50	9	864.51	9	1,109.25	9	1,356.49	9	1,603.73	9	1,850.98	9	2,098.22	9	2,345.46
1/4	149.27	1/4	377.64	1/4	623.60	1/4	869.66	1/4	1,114.40	1/4	1,361.64	1/4	1,608.89	1/4	1,856.13	1/4	2,103.37	1/4	2,350.61
1/2	153.55	1/2	382.80	1/2	628.69	1/2	874.81	1/2	1,119.55	1/2	1,366.79	1/2	1,614.04	1/2	1,861.28	1/2	2,108.52	1/2	2,355.77
3/4	157.83	3/4	387.95	3/4	633.79	3/4	879.96	3/4	1,124.70	3/4	1,371.94	3/4	1,619.19	3/4	1,866.43	3/4	2,113.67	3/4	2,360.92
10	162.11	10	393.10	10	638.88	10	885.12	10	1,129.85	10	1,377.09	10	1,624.34	10	1,871.58	10	2,118.82	10	2,366.07
1/4	166.40	1/4	398.25	1/4	643.98	1/4	890.21	1/4	1,135.00	1/4	1,382.25	1/4	1,629.49	1/4	1,876.73	1/4	2,123.98	1/4	2,371.22
1/2	170.69	1/2	403.40	1/2	649.07	1/2	895.31	1/2	1,140.15	1/2	1,387.40	1/2	1,634.64	1/2	1,881.88	1/2	2,129.13	1/2	2,376.37
3/4	174.98	3/4	408.55	3/4	654.16	3/4	900.41	3/4	1,145.30	3/4	1,392.55	3/4	1,639.79	3/4	1,887.03	3/4	2,134.28	3/4	2,381.52
11	179.26	11	413.70	11	659.26	11	905.51	11	1,150.45	11	1,397.70	11	1,644.94	11	1,892.18	11	2,139.43	11	2,386.67
1/4	183.64	1/4	418.86	1/4	664.35	1/4	910.56	1/4	1,155.61	1/4	1,402.85	1/4	1,650.09	1/4	1,897.34	1/4	2,144.58	1/4	2,391.82
1/2	188.01	1/2	424.01	1/2	669.45	1/2	915.60	1/2	1,160.76	1/2	1,408.00	1/2	1,655.24	1/2	1,902.49	1/2	2,149.73	1/2	2,396.97
3/4	192.39	3/4	429.16	3/4	674.55	3/4	920.65	3/4	1,165.91	3/4	1,413.15	3/4	1,660.39	3/4	1,907.64	3/4	2,154.88	3/4	2,402.12

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 29'-09" FORWARD OF AFT BULKHEAD.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 320"

1 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	2,407.27	0	2,654.49	0	2,900.86	0	3,147.23	0	3,392.40	0		0		0		0		0	
1/4	2,412.43	1/4	2,659.62	1/4	2,905.99	1/4	3,152.36	1/4	3,397.25	1/4		1/4		1/4		1/4		1/4	
1/2	2,417.58	1/2	2,664.75	1/2	2,911.12	1/2	3,157.49	1/2	3,402.11	1/2		1/2		1/2		1/2		1/2	
3/4	2,422.73	3/4	2,669.89	3/4	2,916.26	3/4	3,162.63	3/4	3,406.96	3/4		3/4		3/4		3/4		3/4	
1	2,427.88	1	2,675.02	1	2,921.39	1	3,167.76	1	3,411.81	1		1		1		1		1	
1/4	2,433.03	1/4	2,680.15	1/4	2,926.52	1/4	3,172.89	1/4	3,416.04	1/4		1/4		1/4		1/4		1/4	
1/2	2,438.18	1/2	2,685.28	1/2	2,931.65	1/2	3,178.02	1/2	3,420.26	1/2		1/2		1/2		1/2		1/2	
3/4	2,443.33	3/4	2,690.42	3/4	2,936.79	3/4	3,183.16	3/4	3,424.48	3/4		3/4		3/4		3/4		3/4	
2	2,448.48	2	2,695.55	2	2,941.92	2	3,188.29	2	3,428.70	2		2		2		2		2	
1/4	2,453.63	1/4	2,700.68	1/4	2,947.05	1/4	3,193.42	1/4	3,432.07	1/4		1/4		1/4		1/4		1/4	
1/2	2,458.78	1/2	2,705.81	1/2	2,952.18	1/2	3,198.55	1/2	3,435.43	1/2		1/2		1/2		1/2		1/2	
3/4	2,463.93	3/4	2,710.95	3/4	2,957.32	3/4	3,203.69	3/4	3,438.80	3/4		3/4		3/4		3/4		3/4	
3	2,469.09	3	2,716.08	3	2,962.45	3	3,208.82	3	3,442.16	3		3		3		3		3	
1/4	2,474.24	1/4	2,721.21	1/4	2,967.58	1/4	3,213.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,479.39	1/2	2,726.35	1/2	2,972.72	1/2	3,219.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,484.54	3/4	2,731.48	3/4	2,977.85	3/4	3,224.22	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,489.69	4	2,736.61	4	2,982.98	4	3,229.35	4		4		4		4		4		4	
1/4	2,494.84	1/4	2,741.74	1/4	2,988.11	1/4	3,234.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,499.99	1/2	2,746.88	1/2	2,993.25	1/2	3,239.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,505.14	3/4	2,752.01	3/4	2,998.38	3/4	3,244.75	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,510.29	5	2,757.14	5	3,003.51	5	3,249.88	5		5		5		5		5		5	
1/4	2,515.44	1/4	2,762.27	1/4	3,008.64	1/4	3,255.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,520.59	1/2	2,767.41	1/2	3,013.78	1/2	3,260.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,525.75	3/4	2,772.54	3/4	3,018.91	3/4	3,265.28	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,530.90	6	2,777.67	6	3,024.04	6	3,270.41	6		6		6		6		6		6	
1/4	2,536.05	1/4	2,782.81	1/4	3,029.17	1/4	3,275.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,541.20	1/2	2,787.94	1/2	3,034.31	1/2	3,280.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,546.35	3/4	2,793.07	3/4	3,039.44	3/4	3,285.74	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,551.50	7	2,798.20	7	3,044.57	7	3,290.84	7		7		7		7		7		7	
1/4	2,556.65	1/4	2,803.34	1/4	3,049.71	1/4	3,295.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,561.80	1/2	2,808.47	1/2	3,054.84	1/2	3,301.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,566.95	3/4	2,813.60	3/4	3,059.97	3/4	3,306.09	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,572.10	8	2,818.73	8	3,065.10	8	3,311.17	8		8		8		8		8		8	
1/4	2,577.25	1/4	2,823.87	1/4	3,070.24	1/4	3,316.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,582.41	1/2	2,829.00	1/2	3,075.37	1/2	3,321.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,587.56	3/4	2,834.13	3/4	3,080.50	3/4	3,326.42	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,592.71	9	2,839.26	9	3,085.63	9	3,331.50	9		9		9		9		9		9	
1/4	2,597.86	1/4	2,844.40	1/4	3,090.77	1/4	3,336.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,603.01	1/2	2,849.53	1/2	3,095.90	1/2	3,341.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,608.16	3/4	2,854.66	3/4	3,101.03	3/4	3,346.74	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,613.31	10	2,859.80	10	3,106.17	10	3,351.82	10		10		10		10		10		10	
1/4	2,618.46	1/4	2,864.93	1/4	3,111.30	1/4	3,356.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,623.61	1/2	2,870.06	1/2	3,116.43	1/2	3,361.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,628.76	3/4	2,875.19	3/4	3,121.56	3/4	3,367.06	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,633.91	11	2,880.33	11	3,126.70	11	3,372.13	11		11		11		11		11		11	
1/4	2,639.06	1/4	2,885.46	1/4	3,131.83	1/4	3,377.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,644.20	1/2	2,890.59	1/2	3,136.96	1/2	3,382.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,649.34	3/4	2,895.72	3/4	3,142.09	3/4	3,387.33	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL
CALCULATED: 06/25/2019 CL
PRINTED: 06/25/2019 JS

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 320"

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	196.67	0	433.89	0	680.08	0	926.27	0	1,171.26	0	1,418.13	0	1,665.00	0	1,911.87	0	2,158.74
1/4	16.02	1/4	201.13	1/4	439.03	1/4	685.21	1/4	931.31	1/4	1,176.41	1/4	1,423.28	1/4	1,670.15	1/4	1,917.01	1/4	2,163.88
1/2	18.14	1/2	205.58	1/2	444.17	1/2	690.34	1/2	936.35	1/2	1,181.55	1/2	1,428.42	1/2	1,675.29	1/2	1,922.16	1/2	2,169.03
3/4	20.27	3/4	210.04	3/4	449.32	3/4	695.47	3/4	941.39	3/4	1,186.69	3/4	1,433.56	3/4	1,680.43	3/4	1,927.30	3/4	2,174.17
1	22.39	1	214.50	1	454.46	1	700.59	1	946.43	1	1,191.84	1	1,438.71	1	1,685.57	1	1,932.44	1	2,179.31
1/4	25.56	1/4	219.05	1/4	459.60	1/4	705.73	1/4	951.47	1/4	1,196.98	1/4	1,443.85	1/4	1,690.72	1/4	1,937.59	1/4	2,184.46
1/2	28.72	1/2	223.59	1/2	464.75	1/2	710.87	1/2	956.50	1/2	1,202.12	1/2	1,448.99	1/2	1,695.86	1/2	1,942.73	1/2	2,189.60
3/4	31.88	3/4	228.14	3/4	469.89	3/4	716.00	3/4	961.54	3/4	1,207.27	3/4	1,454.14	3/4	1,701.00	3/4	1,947.87	3/4	2,194.74
2	35.04	2	232.68	2	475.04	2	721.14	2	966.58	2	1,212.41	2	1,459.28	2	1,706.15	2	1,953.02	2	2,199.88
1/4	38.61	1/4	237.32	1/4	480.18	1/4	726.28	1/4	971.62	1/4	1,217.55	1/4	1,464.42	1/4	1,711.29	1/4	1,958.16	1/4	2,205.03
1/2	42.18	1/2	241.95	1/2	485.32	1/2	731.43	1/2	976.66	1/2	1,222.70	1/2	1,469.56	1/2	1,716.43	1/2	1,963.30	1/2	2,210.17
3/4	45.75	3/4	246.58	3/4	490.47	3/4	736.57	3/4	981.70	3/4	1,227.84	3/4	1,474.71	3/4	1,721.58	3/4	1,968.45	3/4	2,215.31
3	49.32	3	251.21	3	495.61	3	741.71	3	986.74	3	1,232.98	3	1,479.85	3	1,726.72	3	1,973.59	3	2,220.46
1/4	52.98	1/4	256.02	1/4	500.74	1/4	746.86	1/4	991.78	1/4	1,238.13	1/4	1,484.99	1/4	1,731.86	1/4	1,978.73	1/4	2,225.60
1/2	56.65	1/2	260.82	1/2	505.88	1/2	752.00	1/2	996.82	1/2	1,243.27	1/2	1,490.14	1/2	1,737.01	1/2	1,983.87	1/2	2,230.74
3/4	60.32	3/4	265.62	3/4	511.01	3/4	757.15	3/4	1,001.86	3/4	1,248.41	3/4	1,495.28	3/4	1,742.15	3/4	1,989.02	3/4	2,235.89
4	63.99	4	270.42	4	516.14	4	762.29	4	1,006.90	4	1,253.55	4	1,500.42	4	1,747.29	4	1,994.16	4	2,241.03
1/4	67.75	1/4	275.39	1/4	521.27	1/4	767.43	1/4	1,011.99	1/4	1,258.70	1/4	1,505.57	1/4	1,752.44	1/4	1,999.30	1/4	2,246.17
1/2	71.50	1/2	280.36	1/2	526.39	1/2	772.58	1/2	1,017.08	1/2	1,263.84	1/2	1,510.71	1/2	1,757.58	1/2	2,004.45	1/2	2,251.32
3/4	75.26	3/4	285.33	3/4	531.51	3/4	777.72	3/4	1,022.17	3/4	1,268.98	3/4	1,515.85	3/4	1,762.72	3/4	2,009.59	3/4	2,256.46
5	79.02	5	290.30	5	536.63	5	782.87	5	1,027.26	5	1,274.13	5	1,521.00	5	1,767.86	5	2,014.73	5	2,261.60
1/4	82.95	1/4	295.35	1/4	541.76	1/4	788.01	1/4	1,032.40	1/4	1,279.27	1/4	1,526.14	1/4	1,773.01	1/4	2,019.88	1/4	2,266.75
1/2	86.88	1/2	300.41	1/2	546.88	1/2	793.15	1/2	1,037.54	1/2	1,284.41	1/2	1,531.28	1/2	1,778.15	1/2	2,025.02	1/2	2,271.89
3/4	90.80	3/4	305.47	3/4	552.00	3/4	798.30	3/4	1,042.69	3/4	1,289.56	3/4	1,536.42	3/4	1,783.29	3/4	2,030.16	3/4	2,277.03
6	94.73	6	310.52	6	557.13	6	803.44	6	1,047.83	6	1,294.70	6	1,541.57	6	1,788.44	6	2,035.31	6	2,282.17
1/4	98.83	1/4	315.64	1/4	562.25	1/4	808.59	1/4	1,052.97	1/4	1,299.84	1/4	1,546.71	1/4	1,793.58	1/4	2,040.45	1/4	2,287.32
1/2	102.92	1/2	320.77	1/2	567.37	1/2	813.73	1/2	1,058.12	1/2	1,304.99	1/2	1,551.85	1/2	1,798.72	1/2	2,045.59	1/2	2,292.46
3/4	107.02	3/4	325.89	3/4	572.49	3/4	818.87	3/4	1,063.26	3/4	1,310.13	3/4	1,557.00	3/4	1,803.87	3/4	2,050.73	3/4	2,297.60
7	111.12	7	331.01	7	577.62	7	824.02	7	1,068.40	7	1,315.27	7	1,562.14	7	1,809.01	7	2,055.88	7	2,302.75
1/4	115.30	1/4	336.15	1/4	582.74	1/4	829.16	1/4	1,073.55	1/4	1,320.41	1/4	1,567.28	1/4	1,814.15	1/4	2,061.02	1/4	2,307.89
1/2	119.49	1/2	341.30	1/2	587.86	1/2	834.31	1/2	1,078.69	1/2	1,325.56	1/2	1,572.43	1/2	1,819.30	1/2	2,066.16	1/2	2,313.03
3/4	123.67	3/4	346.44	3/4	592.98	3/4	839.45	3/4	1,083.83	3/4	1,330.70	3/4	1,577.57	3/4	1,824.44	3/4	2,071.31	3/4	2,318.18
8	127.85	8	351.58	8	598.11	8	844.59	8	1,088.98	8	1,335.84	8	1,582.71	8	1,829.58	8	2,076.45	8	2,323.32
1/4	132.12	1/4	356.73	1/4	603.23	1/4	849.74	1/4	1,094.12	1/4	1,340.99	1/4	1,587.86	1/4	1,834.72	1/4	2,081.59	1/4	2,328.46
1/2	136.40	1/2	361.87	1/2	608.35	1/2	854.88	1/2	1,099.26	1/2	1,346.13	1/2	1,593.00	1/2	1,839.87	1/2	2,086.74	1/2	2,333.61
3/4	140.67	3/4	367.02	3/4	613.47	3/4	860.03	3/4	1,104.40	3/4	1,351.27	3/4	1,598.14	3/4	1,845.01	3/4	2,091.88	3/4	2,338.75
9	144.94	9	372.16	9	618.60	9	865.17	9	1,109.55	9	1,356.42	9	1,603.29	9	1,850.15	9	2,097.02	9	2,343.89
1/4	149.22	1/4	377.30	1/4	623.72	1/4	870.31	1/4	1,114.69	1/4	1,361.56	1/4	1,608.43	1/4	1,855.30	1/4	2,102.17	1/4	2,349.03
1/2	153.49	1/2	382.45	1/2	628.84	1/2	875.46	1/2	1,119.83	1/2	1,366.70	1/2	1,613.57	1/2	1,860.44	1/2	2,107.31	1/2	2,354.18
3/4	157.77	3/4	387.59	3/4	633.97	3/4	880.60	3/4	1,124.98	3/4	1,371.85	3/4	1,618.71	3/4	1,865.58	3/4	2,112.45	3/4	2,359.32
10	162.05	10	392.74	10	639.09	10	885.75	10	1,130.12	10	1,376.99	10	1,623.86	10	1,870.73	10	2,117.60	10	2,364.46
1/4	166.33	1/4	397.88	1/4	644.21	1/4	890.84	1/4	1,135.26	1/4	1,382.13	1/4	1,629.00	1/4	1,875.87	1/4	2,122.74	1/4	2,369.61
1/2	170.62	1/2	403.02	1/2	649.33	1/2	895.93	1/2	1,140.41	1/2	1,387.28	1/2	1,634.14	1/2	1,881.01	1/2	2,127.88	1/2	2,374.75
3/4	174.90	3/4	408.17	3/4	654.46	3/4	901.02	3/4	1,145.55	3/4	1,392.42	3/4	1,639.29	3/4	1,886.16	3/4	2,133.02	3/4	2,379.89
11	179.18	11	413.31	11	659.58	11	906.11	11	1,150.69	11	1,397.56	11	1,644.43	11	1,891.30	11	2,138.17	11	2,385.04
1/4	183.55	1/4	418.45	1/4	664.71	1/4	911.15	1/4	1,155.84	1/4	1,402.70	1/4	1,649.57	1/4	1,896.44	1/4	2,143.31	1/4	2,390.18
1/2	187.93	1/2	423.60	1/2	669.83	1/2	916.19	1/2	1,160.98	1/2	1,407.85	1/2	1,654.72	1/2	1,901.59	1/2	2,148.45	1/2	2,395.32
3/4	192.30	3/4	428.74	3/4	674.96	3/4	921.23	3/4	1,166.12	3/4	1,412.99	3/4	1,659.86	3/4	1,906.73	3/4	2,153.60	3/4	2,400.47

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 29'-09" FORWARD OF AFT BULKHEAD.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 320"

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	2,405.61	0	2,652.43	0	2,898.43	0	3,144.43	0	3,389.23	0		0		0		0		0	
1/4	2,410.75	1/4	2,657.56	1/4	2,903.56	1/4	3,149.56	1/4	3,394.08	1/4		1/4		1/4		1/4		1/4	
1/2	2,415.89	1/2	2,662.68	1/2	2,908.68	1/2	3,154.68	1/2	3,398.92	1/2		1/2		1/2		1/2		1/2	
3/4	2,421.04	3/4	2,667.81	3/4	2,913.81	3/4	3,159.81	3/4	3,403.77	3/4		3/4		3/4		3/4		3/4	
1	2,426.18	1	2,672.93	1	2,918.93	1	3,164.93	1	3,408.62	1		1		1		1		1	
1/4	2,431.32	1/4	2,678.06	1/4	2,924.06	1/4	3,170.06	1/4	3,412.83	1/4		1/4		1/4		1/4		1/4	
1/2	2,436.47	1/2	2,683.18	1/2	2,929.18	1/2	3,175.18	1/2	3,417.05	1/2		1/2		1/2		1/2		1/2	
3/4	2,441.61	3/4	2,688.31	3/4	2,934.31	3/4	3,180.31	3/4	3,421.27	3/4		3/4		3/4		3/4		3/4	
2	2,446.75	2	2,693.43	2	2,939.43	2	3,185.43	2	3,425.48	2		2		2		2		2	
1/4	2,451.90	1/4	2,698.56	1/4	2,944.56	1/4	3,190.56	1/4	3,428.84	1/4		1/4		1/4		1/4		1/4	
1/2	2,457.04	1/2	2,703.68	1/2	2,949.68	1/2	3,195.68	1/2	3,432.20	1/2		1/2		1/2		1/2		1/2	
3/4	2,462.18	3/4	2,708.81	3/4	2,954.81	3/4	3,200.81	3/4	3,435.56	3/4		3/4		3/4		3/4		3/4	
3	2,467.33	3	2,713.93	3	2,959.93	3	3,205.93	3	3,438.92	3		3		3		3		3	
1/4	2,472.47	1/4	2,719.06	1/4	2,965.06	1/4	3,211.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,477.61	1/2	2,724.18	1/2	2,970.18	1/2	3,216.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,482.76	3/4	2,729.31	3/4	2,975.31	3/4	3,221.31	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,487.90	4	2,734.43	4	2,980.43	4	3,226.43	4		4		4		4		4		4	
1/4	2,493.04	1/4	2,739.56	1/4	2,985.56	1/4	3,231.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,498.18	1/2	2,744.68	1/2	2,990.68	1/2	3,236.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,503.33	3/4	2,749.81	3/4	2,995.81	3/4	3,241.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,508.47	5	2,754.93	5	3,000.93	5	3,246.93	5		5		5		5		5		5	
1/4	2,513.61	1/4	2,760.06	1/4	3,006.06	1/4	3,252.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,518.76	1/2	2,765.18	1/2	3,011.18	1/2	3,257.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,523.90	3/4	2,770.31	3/4	3,016.31	3/4	3,262.31	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,529.04	6	2,775.43	6	3,021.43	6	3,267.43	6		6		6		6		6		6	
1/4	2,534.19	1/4	2,780.56	1/4	3,026.56	1/4	3,272.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,539.33	1/2	2,785.68	1/2	3,031.68	1/2	3,277.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,544.47	3/4	2,790.81	3/4	3,036.81	3/4	3,282.73	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,549.62	7	2,795.93	7	3,041.93	7	3,287.83	7		7		7		7		7		7	
1/4	2,554.76	1/4	2,801.06	1/4	3,047.06	1/4	3,292.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,559.90	1/2	2,806.18	1/2	3,052.18	1/2	3,297.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,565.04	3/4	2,811.31	3/4	3,057.31	3/4	3,303.05	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,570.19	8	2,816.43	8	3,062.43	8	3,308.13	8		8		8		8		8		8	
1/4	2,575.33	1/4	2,821.56	1/4	3,067.56	1/4	3,313.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,580.47	1/2	2,826.68	1/2	3,072.68	1/2	3,318.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,585.62	3/4	2,831.81	3/4	3,077.81	3/4	3,323.35	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,590.76	9	2,836.93	9	3,082.93	9	3,328.42	9		9		9		9		9		9	
1/4	2,595.90	1/4	2,842.06	1/4	3,088.06	1/4	3,333.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,601.05	1/2	2,847.18	1/2	3,093.18	1/2	3,338.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,606.19	3/4	2,852.31	3/4	3,098.31	3/4	3,343.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,611.33	10	2,857.43	10	3,103.43	10	3,348.72	10		10		10		10		10		10	
1/4	2,616.48	1/4	2,862.56	1/4	3,108.56	1/4	3,353.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,621.62	1/2	2,867.68	1/2	3,113.68	1/2	3,358.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,626.76	3/4	2,872.81	3/4	3,118.81	3/4	3,363.93	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,631.91	11	2,877.93	11	3,123.93	11	3,369.00	11		11		11		11		11		11	
1/4	2,637.04	1/4	2,883.06	1/4	3,129.06	1/4	3,374.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,642.17	1/2	2,888.18	1/2	3,134.18	1/2	3,379.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,647.30	3/4	2,893.31	3/4	3,139.31	3/4	3,384.17	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL
CALCULATED: 06/25/2019 CL
PRINTED: 06/25/2019 JS

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 320"

2 PORT 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	20.85	0	309.47	0	609.74	0	902.66	0	1,200.88	0	1,501.35	0	1,804.37	0	2,107.38	0	2,410.40	0	2,713.42
1/4	25.38	1/4	315.58	1/4	616.06	1/4	908.68	1/4	1,207.05	1/4	1,507.66	1/4	1,810.68	1/4	2,113.70	1/4	2,416.72	1/4	2,719.74
1/2	29.92	1/2	321.70	1/2	622.37	1/2	914.70	1/2	1,213.22	1/2	1,513.97	1/2	1,816.99	1/2	2,120.01	1/2	2,423.03	1/2	2,726.05
3/4	34.46	3/4	327.81	3/4	628.68	3/4	920.72	3/4	1,219.39	3/4	1,520.28	3/4	1,823.30	3/4	2,126.32	3/4	2,429.34	3/4	2,732.36
1	38.99	1	333.93	1	635.00	1	926.74	1	1,225.57	1	1,526.60	1	1,829.62	1	2,132.64	1	2,435.66	1	2,738.67
1/4	44.70	1/4	340.04	1/4	641.31	1/4	932.77	1/4	1,231.74	1/4	1,532.91	1/4	1,835.93	1/4	2,138.95	1/4	2,441.97	1/4	2,744.99
1/2	50.40	1/2	346.16	1/2	647.62	1/2	938.79	1/2	1,237.91	1/2	1,539.22	1/2	1,842.24	1/2	2,145.26	1/2	2,448.28	1/2	2,751.30
3/4	56.10	3/4	352.27	3/4	653.94	3/4	944.82	3/4	1,244.08	3/4	1,545.54	3/4	1,848.56	3/4	2,151.57	3/4	2,454.59	3/4	2,757.61
2	61.81	2	358.39	2	660.25	2	950.85	2	1,250.25	2	1,551.85	2	1,854.87	2	2,157.89	2	2,460.91	2	2,763.93
1/4	67.90	1/4	364.50	1/4	666.56	1/4	956.89	1/4	1,256.42	1/4	1,558.16	1/4	1,861.18	1/4	2,164.20	1/4	2,467.22	1/4	2,770.24
1/2	74.00	1/2	370.62	1/2	672.88	1/2	962.92	1/2	1,262.59	1/2	1,564.48	1/2	1,867.49	1/2	2,170.51	1/2	2,473.53	1/2	2,776.55
3/4	80.09	3/4	376.73	3/4	679.19	3/4	968.96	3/4	1,268.76	3/4	1,570.79	3/4	1,873.81	3/4	2,176.83	3/4	2,479.85	3/4	2,782.86
3	86.18	3	382.85	3	685.50	3	975.00	3	1,274.93	3	1,577.10	3	1,880.12	3	2,183.14	3	2,486.16	3	2,789.18
1/4	92.29	1/4	389.06	1/4	691.67	1/4	981.17	1/4	1,281.10	1/4	1,583.41	1/4	1,886.43	1/4	2,189.45	1/4	2,492.47	1/4	2,795.49
1/2	98.40	1/2	395.28	1/2	697.83	1/2	987.35	1/2	1,287.28	1/2	1,589.73	1/2	1,892.75	1/2	2,195.77	1/2	2,498.78	1/2	2,801.80
3/4	104.51	3/4	401.49	3/4	704.00	3/4	993.52	3/4	1,293.45	3/4	1,596.04	3/4	1,899.06	3/4	2,202.08	3/4	2,505.10	3/4	2,808.12
4	110.62	4	407.71	4	710.16	4	999.70	4	1,299.62	4	1,602.35	4	1,905.37	4	2,208.39	4	2,511.41	4	2,814.43
1/4	116.73	1/4	414.02	1/4	716.18	1/4	1,006.01	1/4	1,305.86	1/4	1,608.67	1/4	1,911.68	1/4	2,214.70	1/4	2,517.72	1/4	2,820.74
1/2	122.84	1/2	420.33	1/2	722.19	1/2	1,012.32	1/2	1,312.10	1/2	1,614.98	1/2	1,918.00	1/2	2,221.02	1/2	2,524.04	1/2	2,827.06
3/4	128.96	3/4	426.65	3/4	728.21	3/4	1,018.64	3/4	1,318.34	3/4	1,621.29	3/4	1,924.31	3/4	2,227.33	3/4	2,530.35	3/4	2,833.37
5	135.07	5	432.96	5	734.22	5	1,024.95	5	1,324.59	5	1,627.60	5	1,930.62	5	2,233.64	5	2,536.66	5	2,839.68
1/4	141.28	1/4	439.27	1/4	740.24	1/4	1,031.26	1/4	1,330.90	1/4	1,633.92	1/4	1,936.94	1/4	2,239.96	1/4	2,542.97	1/4	2,845.99
1/2	147.50	1/2	445.59	1/2	746.25	1/2	1,037.58	1/2	1,337.21	1/2	1,640.23	1/2	1,943.25	1/2	2,246.27	1/2	2,549.29	1/2	2,852.31
3/4	153.71	3/4	451.90	3/4	752.27	3/4	1,043.89	3/4	1,343.52	3/4	1,646.54	3/4	1,949.56	3/4	2,252.58	3/4	2,555.60	3/4	2,858.62
6	159.92	6	458.22	6	758.28	6	1,050.21	6	1,349.84	6	1,652.86	6	1,955.88	6	2,258.89	6	2,561.91	6	2,864.93
1/4	166.24	1/4	464.53	1/4	764.30	1/4	1,056.52	1/4	1,356.15	1/4	1,659.17	1/4	1,962.19	1/4	2,265.21	1/4	2,568.23	1/4	2,871.25
1/2	172.55	1/2	470.84	1/2	770.31	1/2	1,062.83	1/2	1,362.46	1/2	1,665.48	1/2	1,968.50	1/2	2,271.52	1/2	2,574.54	1/2	2,877.56
3/4	178.86	3/4	477.16	3/4	776.33	3/4	1,069.15	3/4	1,368.78	3/4	1,671.79	3/4	1,974.81	3/4	2,277.83	3/4	2,580.85	3/4	2,883.87
7	185.18	7	483.47	7	782.34	7	1,075.46	7	1,375.09	7	1,678.11	7	1,981.13	7	2,284.15	7	2,587.17	7	2,890.18
1/4	191.49	1/4	489.78	1/4	788.36	1/4	1,081.77	1/4	1,381.40	1/4	1,684.42	1/4	1,987.44	1/4	2,290.46	1/4	2,593.48	1/4	2,896.50
1/2	197.81	1/2	496.10	1/2	794.37	1/2	1,088.09	1/2	1,387.71	1/2	1,690.73	1/2	1,993.75	1/2	2,296.77	1/2	2,599.79	1/2	2,902.81
3/4	204.12	3/4	502.41	3/4	800.39	3/4	1,094.40	3/4	1,394.03	3/4	1,697.05	3/4	2,000.07	3/4	2,303.08	3/4	2,606.10	3/4	2,909.12
8	210.43	8	508.72	8	806.40	8	1,100.72	8	1,400.34	8	1,703.36	8	2,006.38	8	2,309.40	8	2,612.42	8	2,915.44
1/4	216.75	1/4	515.04	1/4	812.42	1/4	1,107.03	1/4	1,406.65	1/4	1,709.67	1/4	2,012.69	1/4	2,315.71	1/4	2,618.73	1/4	2,921.75
1/2	223.06	1/2	521.35	1/2	818.43	1/2	1,113.34	1/2	1,412.97	1/2	1,715.98	1/2	2,019.00	1/2	2,322.02	1/2	2,625.04	1/2	2,928.06
3/4	229.37	3/4	527.66	3/4	824.45	3/4	1,119.66	3/4	1,419.28	3/4	1,722.30	3/4	2,025.32	3/4	2,328.34	3/4	2,631.36	3/4	2,934.37
9	235.69	9	533.98	9	830.46	9	1,125.97	9	1,425.59	9	1,728.61	9	2,031.63	9	2,334.65	9	2,637.67	9	2,940.69
1/4	241.90	1/4	540.29	1/4	836.48	1/4	1,132.29	1/4	1,431.90	1/4	1,734.92	1/4	2,037.94	1/4	2,340.96	1/4	2,643.98	1/4	2,947.00
1/2	248.12	1/2	546.61	1/2	842.49	1/2	1,138.60	1/2	1,438.22	1/2	1,741.24	1/2	2,044.26	1/2	2,347.27	1/2	2,650.29	1/2	2,953.31
3/4	254.33	3/4	552.92	3/4	848.51	3/4	1,144.91	3/4	1,444.53	3/4	1,747.55	3/4	2,050.57	3/4	2,353.59	3/4	2,656.61	3/4	2,959.63
10	260.55	10	559.23	10	854.52	10	1,151.23	10	1,450.84	10	1,753.86	10	2,056.88	10	2,359.90	10	2,662.92	10	2,965.94
1/4	266.66	1/4	565.55	1/4	860.54	1/4	1,157.47	1/4	1,457.16	1/4	1,760.18	1/4	2,063.19	1/4	2,366.21	1/4	2,669.23	1/4	2,972.25
1/2	272.78	1/2	571.86	1/2	866.55	1/2	1,163.71	1/2	1,463.47	1/2	1,766.49	1/2	2,069.51	1/2	2,372.53	1/2	2,675.55	1/2	2,978.56
3/4	278.89	3/4	578.17	3/4	872.57	3/4	1,169.95	3/4	1,469.78	3/4	1,772.80	3/4	2,075.82	3/4	2,378.84	3/4	2,681.86	3/4	2,984.88
11	285.01	11	584.49	11	878.59	11	1,176.20	11	1,476.09	11	1,779.11	11	2,082.13	11	2,385.15	11	2,688.17	11	2,991.19
1/4	291.12	1/4	590.80	1/4	884.60	1/4	1,182.37	1/4	1,482.41	1/4	1,785.43	1/4	2,088.45	1/4	2,391.47	1/4	2,694.48	1/4	2,997.50
1/2	297.24	1/2	597.11	1/2	890.62	1/2	1,188.54	1/2	1,488.72	1/2	1,791.74	1/2	2,094.76	1/2	2,397.78	1/2	2,700.80	1/2	3,003.82
3/4	303.35	3/4	603.43	3/4	896.64	3/4	1,194.71	3/4	1,495.03	3/4	1,798.05	3/4	2,101.07	3/4	2,404.09	3/4	2,707.11	3/4	3,010.13

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 320"

2 PORT 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	3,016.44	0	3,319.43	0	3,621.58	0	3,923.74	0	4,224.42	0		0		0		0		0	
1/4	3,022.76	1/4	3,325.72	1/4	3,627.88	1/4	3,930.03	1/4	4,230.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,029.07	1/2	3,332.02	1/2	3,634.17	1/2	3,936.33	1/2	4,236.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,035.38	3/4	3,338.31	3/4	3,640.47	3/4	3,942.62	3/4	4,242.28	3/4		3/4		3/4		3/4		3/4	
1	3,041.69	1	3,344.61	1	3,646.76	1	3,948.92	1	4,248.23	1		1		1		1		1	
1/4	3,048.01	1/4	3,350.90	1/4	3,653.06	1/4	3,955.21	1/4	4,253.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,054.32	1/2	3,357.20	1/2	3,659.35	1/2	3,961.51	1/2	4,258.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,060.63	3/4	3,363.49	3/4	3,665.65	3/4	3,967.80	3/4	4,263.77	3/4		3/4		3/4		3/4		3/4	
2	3,066.95	2	3,369.79	2	3,671.94	2	3,974.10	2	4,268.95	2		2		2		2		2	
1/4	3,073.26	1/4	3,376.08	1/4	3,678.24	1/4	3,980.39	1/4	4,273.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,079.57	1/2	3,382.38	1/2	3,684.53	1/2	3,986.69	1/2	4,277.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,085.88	3/4	3,388.67	3/4	3,690.83	3/4	3,992.98	3/4	4,281.33	3/4		3/4		3/4		3/4		3/4	
3	3,092.20	3	3,394.97	3	3,697.12	3	3,999.28	3	4,285.46	3		3		3		3		3	
1/4	3,098.51	1/4	3,401.26	1/4	3,703.42	1/4	4,005.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,104.82	1/2	3,407.56	1/2	3,709.71	1/2	4,011.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,111.14	3/4	3,413.85	3/4	3,716.01	3/4	4,018.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,117.45	4	3,420.15	4	3,722.30	4	4,024.46	4		4		4		4		4		4	
1/4	3,123.76	1/4	3,426.44	1/4	3,728.60	1/4	4,030.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,130.07	1/2	3,432.74	1/2	3,734.89	1/2	4,037.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,136.39	3/4	3,439.03	3/4	3,741.19	3/4	4,043.34	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,142.70	5	3,445.33	5	3,747.48	5	4,049.64	5		5		5		5		5		5	
1/4	3,149.01	1/4	3,451.62	1/4	3,753.78	1/4	4,055.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,155.33	1/2	3,457.91	1/2	3,760.07	1/2	4,062.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,161.64	3/4	3,464.21	3/4	3,766.36	3/4	4,068.52	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,167.95	6	3,470.50	6	3,772.66	6	4,074.82	6		6		6		6		6		6	
1/4	3,174.26	1/4	3,476.80	1/4	3,778.95	1/4	4,081.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,180.58	1/2	3,483.09	1/2	3,785.25	1/2	4,087.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,186.89	3/4	3,489.39	3/4	3,791.54	3/4	4,093.60	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,193.20	7	3,495.68	7	3,797.84	7	4,099.87	7		7		7		7		7		7	
1/4	3,199.52	1/4	3,501.98	1/4	3,804.13	1/4	4,106.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,205.83	1/2	3,508.27	1/2	3,810.43	1/2	4,112.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,212.14	3/4	3,514.57	3/4	3,816.72	3/4	4,118.57	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,218.46	8	3,520.86	8	3,823.02	8	4,124.80	8		8		8		8		8		8	
1/4	3,224.77	1/4	3,527.16	1/4	3,829.31	1/4	4,131.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,231.08	1/2	3,533.45	1/2	3,835.61	1/2	4,137.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,237.39	3/4	3,539.75	3/4	3,841.90	3/4	4,143.50	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,243.71	9	3,546.04	9	3,848.20	9	4,149.73	9		9		9		9		9		9	
1/4	3,250.02	1/4	3,552.34	1/4	3,854.49	1/4	4,155.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,256.33	1/2	3,558.63	1/2	3,860.79	1/2	4,162.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,262.65	3/4	3,564.93	3/4	3,867.08	3/4	4,168.42	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,268.96	10	3,571.22	10	3,873.38	10	4,174.66	10		10		10		10		10		10	
1/4	3,275.27	1/4	3,577.52	1/4	3,879.67	1/4	4,180.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,281.58	1/2	3,583.81	1/2	3,885.97	1/2	4,187.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,287.90	3/4	3,590.11	3/4	3,892.26	3/4	4,193.34	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,294.21	11	3,596.40	11	3,898.56	11	4,199.56	11		11		11		11		11		11	
1/4	3,300.51	1/4	3,602.70	1/4	3,904.85	1/4	4,205.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,306.82	1/2	3,608.99	1/2	3,911.15	1/2	4,211.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,313.12	3/4	3,615.29	3/4	3,917.44	3/4	4,218.20	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL
CALCULATED: 06/25/2019 CL
PRINTED: 06/25/2019 JS

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 320"

2 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	20.85	0	309.44	0	609.71	0	912.05	0	1,214.16	0	1,514.61	0	1,817.62	0	2,120.64	0	2,423.65	0	2,726.67
1/4	25.38	1/4	315.56	1/4	616.02	1/4	918.35	1/4	1,220.33	1/4	1,520.92	1/4	1,823.94	1/4	2,126.95	1/4	2,429.96	1/4	2,732.98
1/2	29.92	1/2	321.67	1/2	622.33	1/2	924.65	1/2	1,226.50	1/2	1,527.23	1/2	1,830.25	1/2	2,133.26	1/2	2,436.28	1/2	2,739.29
3/4	34.45	3/4	327.79	3/4	628.65	3/4	930.94	3/4	1,232.67	3/4	1,533.55	3/4	1,836.56	3/4	2,139.58	3/4	2,442.59	3/4	2,745.60
1	38.99	1	333.90	1	634.96	1	937.24	1	1,238.84	1	1,539.86	1	1,842.87	1	2,145.89	1	2,448.90	1	2,751.92
1/4	44.69	1/4	340.01	1/4	641.28	1/4	943.55	1/4	1,245.01	1/4	1,546.17	1/4	1,849.19	1/4	2,152.20	1/4	2,455.22	1/4	2,758.23
1/2	50.40	1/2	346.13	1/2	647.59	1/2	949.85	1/2	1,251.18	1/2	1,552.49	1/2	1,855.50	1/2	2,158.51	1/2	2,461.53	1/2	2,764.54
3/4	56.10	3/4	352.24	3/4	653.90	3/4	956.16	3/4	1,257.35	3/4	1,558.80	3/4	1,861.81	3/4	2,164.83	3/4	2,467.84	3/4	2,770.86
2	61.80	2	358.36	2	660.22	2	962.47	2	1,263.52	2	1,565.11	2	1,868.13	2	2,171.14	2	2,474.15	2	2,777.17
1/4	67.90	1/4	364.47	1/4	666.53	1/4	968.78	1/4	1,269.69	1/4	1,571.42	1/4	1,874.44	1/4	2,177.45	1/4	2,480.47	1/4	2,783.48
1/2	73.99	1/2	370.59	1/2	672.84	1/2	975.09	1/2	1,275.86	1/2	1,577.74	1/2	1,880.75	1/2	2,183.77	1/2	2,486.78	1/2	2,789.79
3/4	80.08	3/4	376.70	3/4	679.16	3/4	981.41	3/4	1,282.03	3/4	1,584.05	3/4	1,887.06	3/4	2,190.08	3/4	2,493.09	3/4	2,796.11
3	86.18	3	382.82	3	685.47	3	987.72	3	1,288.20	3	1,590.36	3	1,893.38	3	2,196.39	3	2,499.41	3	2,802.42
1/4	92.28	1/4	389.03	1/4	691.77	1/4	994.03	1/4	1,294.37	1/4	1,596.68	1/4	1,899.69	1/4	2,202.70	1/4	2,505.72	1/4	2,808.73
1/2	98.39	1/2	395.24	1/2	698.08	1/2	1,000.35	1/2	1,300.54	1/2	1,602.99	1/2	1,906.00	1/2	2,209.02	1/2	2,512.03	1/2	2,815.05
3/4	104.50	3/4	401.46	3/4	704.38	3/4	1,006.66	3/4	1,306.71	3/4	1,609.30	3/4	1,912.32	3/4	2,215.33	3/4	2,518.34	3/4	2,821.36
4	110.61	4	407.67	4	710.68	4	1,012.98	4	1,312.88	4	1,615.61	4	1,918.63	4	2,221.64	4	2,524.66	4	2,827.67
1/4	116.72	1/4	413.99	1/4	716.97	1/4	1,019.29	1/4	1,319.12	1/4	1,621.93	1/4	1,924.94	1/4	2,227.96	1/4	2,530.97	1/4	2,833.98
1/2	122.83	1/2	420.30	1/2	723.26	1/2	1,025.60	1/2	1,325.37	1/2	1,628.24	1/2	1,931.25	1/2	2,234.27	1/2	2,537.28	1/2	2,840.30
3/4	128.94	3/4	426.61	3/4	729.56	3/4	1,031.92	3/4	1,331.61	3/4	1,634.55	3/4	1,937.57	3/4	2,240.58	3/4	2,543.60	3/4	2,846.61
5	135.06	5	432.93	5	735.85	5	1,038.23	5	1,337.85	5	1,640.86	5	1,943.88	5	2,246.89	5	2,549.91	5	2,852.92
1/4	141.27	1/4	439.24	1/4	742.14	1/4	1,044.55	1/4	1,344.16	1/4	1,647.18	1/4	1,950.19	1/4	2,253.21	1/4	2,556.22	1/4	2,859.24
1/2	147.48	1/2	445.55	1/2	748.43	1/2	1,050.86	1/2	1,350.48	1/2	1,653.49	1/2	1,956.50	1/2	2,259.52	1/2	2,562.53	1/2	2,865.55
3/4	153.70	3/4	451.87	3/4	754.73	3/4	1,057.17	3/4	1,356.79	3/4	1,659.80	3/4	1,962.82	3/4	2,265.83	3/4	2,568.85	3/4	2,871.86
6	159.91	6	458.18	6	761.02	6	1,063.49	6	1,363.10	6	1,666.12	6	1,969.13	6	2,272.14	6	2,575.16	6	2,878.17
1/4	166.22	1/4	464.49	1/4	767.31	1/4	1,069.80	1/4	1,369.41	1/4	1,672.43	1/4	1,975.44	1/4	2,278.46	1/4	2,581.47	1/4	2,884.49
1/2	172.54	1/2	470.81	1/2	773.60	1/2	1,076.11	1/2	1,375.73	1/2	1,678.74	1/2	1,981.76	1/2	2,284.77	1/2	2,587.78	1/2	2,890.80
3/4	178.85	3/4	477.12	3/4	779.90	3/4	1,082.43	3/4	1,382.04	3/4	1,685.05	3/4	1,988.07	3/4	2,291.08	3/4	2,594.10	3/4	2,897.11
7	185.16	7	483.44	7	786.19	7	1,088.74	7	1,388.35	7	1,691.37	7	1,994.38	7	2,297.40	7	2,600.41	7	2,903.42
1/4	191.48	1/4	489.75	1/4	792.48	1/4	1,095.06	1/4	1,394.67	1/4	1,697.68	1/4	2,000.69	1/4	2,303.71	1/4	2,606.72	1/4	2,909.74
1/2	197.79	1/2	496.06	1/2	798.77	1/2	1,101.37	1/2	1,400.98	1/2	1,703.99	1/2	2,007.01	1/2	2,310.02	1/2	2,613.04	1/2	2,916.05
3/4	204.10	3/4	502.38	3/4	805.07	3/4	1,107.68	3/4	1,407.29	3/4	1,710.31	3/4	2,013.32	3/4	2,316.33	3/4	2,619.35	3/4	2,922.36
8	210.42	8	508.69	8	811.36	8	1,114.00	8	1,413.60	8	1,716.62	8	2,019.63	8	2,322.65	8	2,625.66	8	2,928.68
1/4	216.73	1/4	515.00	1/4	817.65	1/4	1,120.31	1/4	1,419.92	1/4	1,722.93	1/4	2,025.95	1/4	2,328.96	1/4	2,631.97	1/4	2,934.99
1/2	223.04	1/2	521.32	1/2	823.94	1/2	1,126.62	1/2	1,426.23	1/2	1,729.24	1/2	2,032.26	1/2	2,335.27	1/2	2,638.29	1/2	2,941.30
3/4	229.36	3/4	527.63	3/4	830.24	3/4	1,132.94	3/4	1,432.54	3/4	1,735.56	3/4	2,038.57	3/4	2,341.59	3/4	2,644.60	3/4	2,947.61
9	235.67	9	533.94	9	836.53	9	1,139.25	9	1,438.86	9	1,741.87	9	2,044.88	9	2,347.90	9	2,650.91	9	2,953.93
1/4	241.89	1/4	540.26	1/4	842.82	1/4	1,145.57	1/4	1,445.17	1/4	1,748.18	1/4	2,051.20	1/4	2,354.21	1/4	2,657.23	1/4	2,960.24
1/2	248.10	1/2	546.57	1/2	849.11	1/2	1,151.88	1/2	1,451.48	1/2	1,754.50	1/2	2,057.51	1/2	2,360.52	1/2	2,663.54	1/2	2,966.55
3/4	254.31	3/4	552.89	3/4	855.41	3/4	1,158.19	3/4	1,457.79	3/4	1,760.81	3/4	2,063.82	3/4	2,366.84	3/4	2,669.85	3/4	2,972.87
10	260.53	10	559.20	10	861.70	10	1,164.51	10	1,464.11	10	1,767.12	10	2,070.14	10	2,373.15	10	2,676.16	10	2,979.18
1/4	266.64	1/4	565.51	1/4	867.99	1/4	1,170.75	1/4	1,470.42	1/4	1,773.43	1/4	2,076.45	1/4	2,379.46	1/4	2,682.48	1/4	2,985.49
1/2	272.76	1/2	571.83	1/2	874.28	1/2	1,176.99	1/2	1,476.73	1/2	1,779.75	1/2	2,082.76	1/2	2,385.78	1/2	2,688.79	1/2	2,991.80
3/4	278.87	3/4	578.14	3/4	880.58	3/4	1,183.23	3/4	1,483.04	3/4	1,786.06	3/4	2,089.07	3/4	2,392.09	3/4	2,695.10	3/4	2,998.12
11	284.98	11	584.45	11	886.87	11	1,189.47	11	1,489.36	11	1,792.37	11	2,095.39	11	2,398.40	11	2,701.42	11	3,004.43
1/4	291.10	1/4	590.77	1/4	893.16	1/4	1,195.64	1/4	1,495.67	1/4	1,798.68	1/4	2,101.70	1/4	2,404.71	1/4	2,707.73	1/4	3,010.74
1/2	297.21	1/2	597.08	1/2	899.46	1/2	1,201.82	1/2	1,501.98	1/2	1,805.00	1/2	2,108.01	1/2	2,411.03	1/2	2,714.04	1/2	3,017.06
3/4	303.33	3/4	603.39	3/4	905.76	3/4	1,207.99	3/4	1,508.30	3/4	1,811.31	3/4	2,114.32	3/4	2,417.34	3/4	2,720.35	3/4	3,023.37

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 320"

2 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	3,029.68	0	3,332.67	0	3,634.81	0	3,936.96	0	4,237.64	0		0		0		0		0	
1/4	3,035.99	1/4	3,338.96	1/4	3,641.11	1/4	3,943.25	1/4	4,243.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,042.31	1/2	3,345.26	1/2	3,647.40	1/2	3,949.55	1/2	4,249.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,048.62	3/4	3,351.55	3/4	3,653.70	3/4	3,955.84	3/4	4,255.50	3/4		3/4		3/4		3/4		3/4	
1	3,054.93	1	3,357.85	1	3,659.99	1	3,962.14	1	4,261.45	1		1		1		1		1	
1/4	3,061.24	1/4	3,364.14	1/4	3,666.29	1/4	3,968.43	1/4	4,266.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,067.56	1/2	3,370.44	1/2	3,672.58	1/2	3,974.73	1/2	4,271.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,073.87	3/4	3,376.73	3/4	3,678.88	3/4	3,981.02	3/4	4,276.99	3/4		3/4		3/4		3/4		3/4	
2	3,080.18	2	3,383.02	2	3,685.17	2	3,987.32	2	4,282.17	2		2		2		2		2	
1/4	3,086.50	1/4	3,389.32	1/4	3,691.47	1/4	3,993.61	1/4	4,286.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,092.81	1/2	3,395.61	1/2	3,697.76	1/2	3,999.91	1/2	4,290.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,099.12	3/4	3,401.91	3/4	3,704.05	3/4	4,006.20	3/4	4,294.55	3/4		3/4		3/4		3/4		3/4	
3	3,105.43	3	3,408.20	3	3,710.35	3	4,012.49	3	4,298.68	3		3		3		3		3	
1/4	3,111.75	1/4	3,414.50	1/4	3,716.64	1/4	4,018.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,118.06	1/2	3,420.79	1/2	3,722.94	1/2	4,025.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,124.37	3/4	3,427.09	3/4	3,729.23	3/4	4,031.38	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,130.69	4	3,433.38	4	3,735.53	4	4,037.67	4		4		4		4		4		4	
1/4	3,137.00	1/4	3,439.68	1/4	3,741.82	1/4	4,043.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,143.31	1/2	3,445.97	1/2	3,748.12	1/2	4,050.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,149.62	3/4	3,452.27	3/4	3,754.41	3/4	4,056.56	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,155.94	5	3,458.56	5	3,760.71	5	4,062.85	5		5		5		5		5		5	
1/4	3,162.25	1/4	3,464.86	1/4	3,767.00	1/4	4,069.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,168.56	1/2	3,471.15	1/2	3,773.30	1/2	4,075.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,174.88	3/4	3,477.45	3/4	3,779.59	3/4	4,081.74	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,181.19	6	3,483.74	6	3,785.89	6	4,088.03	6		6		6		6		6		6	
1/4	3,187.50	1/4	3,490.03	1/4	3,792.18	1/4	4,094.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.81	1/2	3,496.33	1/2	3,798.48	1/2	4,100.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,200.13	3/4	3,502.62	3/4	3,804.77	3/4	4,106.83	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,206.44	7	3,508.92	7	3,811.06	7	4,113.09	7		7		7		7		7		7	
1/4	3,212.75	1/4	3,515.21	1/4	3,817.36	1/4	4,119.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.06	1/2	3,521.51	1/2	3,823.65	1/2	4,125.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.38	3/4	3,527.80	3/4	3,829.95	3/4	4,131.79	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,231.69	8	3,534.10	8	3,836.24	8	4,138.02	8		8		8		8		8		8	
1/4	3,238.00	1/4	3,540.39	1/4	3,842.54	1/4	4,144.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,244.32	1/2	3,546.69	1/2	3,848.83	1/2	4,150.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.63	3/4	3,552.98	3/4	3,855.13	3/4	4,156.72	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,256.94	9	3,559.28	9	3,861.42	9	4,162.95	9		9		9		9		9		9	
1/4	3,263.25	1/4	3,565.57	1/4	3,867.72	1/4	4,169.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,269.57	1/2	3,571.87	1/2	3,874.01	1/2	4,175.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,275.88	3/4	3,578.16	3/4	3,880.31	3/4	4,181.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,282.19	10	3,584.46	10	3,886.60	10	4,187.88	10		10		10		10		10		10	
1/4	3,288.51	1/4	3,590.75	1/4	3,892.90	1/4	4,194.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,294.82	1/2	3,597.04	1/2	3,899.19	1/2	4,200.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,301.13	3/4	3,603.34	3/4	3,905.48	3/4	4,206.56	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,307.44	11	3,609.63	11	3,911.78	11	4,212.78	11		11		11		11		11		11	
1/4	3,313.75	1/4	3,615.93	1/4	3,918.07	1/4	4,219.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,320.06	1/2	3,622.22	1/2	3,924.37	1/2	4,225.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,326.36	3/4	3,628.52	3/4	3,930.66	3/4	4,231.42	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL
CALCULATED: 06/25/2019 CL
PRINTED: 06/25/2019 JS

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 320"

3 PORT 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	20.88	0	309.89	0	610.58	0	903.88	0	1,202.52	0	1,503.40	0	1,806.84	0	2,110.29	0	2,413.74	0	2,717.18
1/4	25.42	1/4	316.01	1/4	616.90	1/4	909.91	1/4	1,208.69	1/4	1,509.72	1/4	1,813.17	1/4	2,116.61	1/4	2,420.06	1/4	2,723.51
1/2	29.96	1/2	322.13	1/2	623.23	1/2	915.94	1/2	1,214.87	1/2	1,516.04	1/2	1,819.49	1/2	2,122.93	1/2	2,426.38	1/2	2,729.83
3/4	34.50	3/4	328.26	3/4	629.55	3/4	921.96	3/4	1,221.05	3/4	1,522.36	3/4	1,825.81	3/4	2,129.26	3/4	2,432.70	3/4	2,736.15
1	39.05	1	334.38	1	635.87	1	927.99	1	1,227.23	1	1,528.68	1	1,832.13	1	2,135.58	1	2,439.02	1	2,742.47
1/4	44.76	1/4	340.50	1/4	642.20	1/4	934.03	1/4	1,233.41	1/4	1,535.01	1/4	1,838.45	1/4	2,141.90	1/4	2,445.35	1/4	2,748.79
1/2	50.47	1/2	346.63	1/2	648.52	1/2	940.07	1/2	1,239.59	1/2	1,541.33	1/2	1,844.77	1/2	2,148.22	1/2	2,451.67	1/2	2,755.11
3/4	56.18	3/4	352.75	3/4	654.84	3/4	946.10	3/4	1,245.77	3/4	1,547.65	3/4	1,851.10	3/4	2,154.54	3/4	2,457.99	3/4	2,761.44
2	61.89	2	358.87	2	661.16	2	952.14	2	1,251.95	2	1,553.97	2	1,857.42	2	2,160.86	2	2,464.31	2	2,767.76
1/4	67.99	1/4	365.00	1/4	667.49	1/4	958.18	1/4	1,258.13	1/4	1,560.29	1/4	1,863.74	1/4	2,167.19	1/4	2,470.63	1/4	2,774.08
1/2	74.10	1/2	371.12	1/2	673.81	1/2	964.23	1/2	1,264.31	1/2	1,566.62	1/2	1,870.06	1/2	2,173.51	1/2	2,476.95	1/2	2,780.40
3/4	80.20	3/4	377.24	3/4	680.13	3/4	970.27	3/4	1,270.49	3/4	1,572.94	3/4	1,876.38	3/4	2,179.83	3/4	2,483.28	3/4	2,786.72
3	86.30	3	383.37	3	686.45	3	976.31	3	1,276.67	3	1,579.26	3	1,882.71	3	2,186.15	3	2,489.60	3	2,793.04
1/4	92.42	1/4	389.59	1/4	692.63	1/4	982.50	1/4	1,282.85	1/4	1,585.58	1/4	1,889.03	1/4	2,192.47	1/4	2,495.92	1/4	2,799.37
1/2	98.53	1/2	395.81	1/2	698.80	1/2	988.68	1/2	1,289.03	1/2	1,591.90	1/2	1,895.35	1/2	2,198.80	1/2	2,502.24	1/2	2,805.69
3/4	104.65	3/4	402.04	3/4	704.97	3/4	994.86	3/4	1,295.20	3/4	1,598.22	3/4	1,901.67	3/4	2,205.12	3/4	2,508.56	3/4	2,812.01
4	110.77	4	408.26	4	711.14	4	1,001.05	4	1,301.38	4	1,604.55	4	1,907.99	4	2,211.44	4	2,514.89	4	2,818.33
1/4	116.89	1/4	414.58	1/4	717.16	1/4	1,007.37	1/4	1,307.63	1/4	1,610.87	1/4	1,914.31	1/4	2,217.76	1/4	2,521.21	1/4	2,824.65
1/2	123.01	1/2	420.90	1/2	723.19	1/2	1,013.69	1/2	1,313.89	1/2	1,617.19	1/2	1,920.64	1/2	2,224.08	1/2	2,527.53	1/2	2,830.98
3/4	129.13	3/4	427.23	3/4	729.21	3/4	1,020.02	3/4	1,320.14	3/4	1,623.51	3/4	1,926.96	3/4	2,230.40	3/4	2,533.85	3/4	2,837.30
5	135.25	5	433.55	5	735.23	5	1,026.34	5	1,326.39	5	1,629.83	5	1,933.28	5	2,236.73	5	2,540.17	5	2,843.62
1/4	141.47	1/4	439.87	1/4	741.26	1/4	1,032.66	1/4	1,332.71	1/4	1,636.16	1/4	1,939.60	1/4	2,243.05	1/4	2,546.49	1/4	2,849.94
1/2	147.70	1/2	446.19	1/2	747.28	1/2	1,038.98	1/2	1,339.03	1/2	1,642.48	1/2	1,945.92	1/2	2,249.37	1/2	2,552.82	1/2	2,856.26
3/4	153.92	3/4	452.52	3/4	753.30	3/4	1,045.31	3/4	1,345.35	3/4	1,648.80	3/4	1,952.25	3/4	2,255.69	3/4	2,559.14	3/4	2,862.58
6	160.14	6	458.84	6	759.32	6	1,051.63	6	1,351.67	6	1,655.12	6	1,958.57	6	2,262.01	6	2,565.46	6	2,868.91
1/4	166.46	1/4	465.16	1/4	765.35	1/4	1,057.95	1/4	1,358.00	1/4	1,661.44	1/4	1,964.89	1/4	2,268.34	1/4	2,571.78	1/4	2,875.23
1/2	172.78	1/2	471.48	1/2	771.37	1/2	1,064.27	1/2	1,364.32	1/2	1,667.76	1/2	1,971.21	1/2	2,274.66	1/2	2,578.10	1/2	2,881.55
3/4	179.11	3/4	477.81	3/4	777.39	3/4	1,070.60	3/4	1,370.64	3/4	1,674.09	3/4	1,977.53	3/4	2,280.98	3/4	2,584.43	3/4	2,887.87
7	185.43	7	484.13	7	783.41	7	1,076.92	7	1,376.96	7	1,680.41	7	1,983.85	7	2,287.30	7	2,590.75	7	2,894.19
1/4	191.75	1/4	490.45	1/4	789.44	1/4	1,083.24	1/4	1,383.28	1/4	1,686.73	1/4	1,990.18	1/4	2,293.62	1/4	2,597.07	1/4	2,900.52
1/2	198.07	1/2	496.78	1/2	795.46	1/2	1,089.57	1/2	1,389.61	1/2	1,693.05	1/2	1,996.50	1/2	2,299.94	1/2	2,603.39	1/2	2,906.84
3/4	204.40	3/4	503.10	3/4	801.48	3/4	1,095.89	3/4	1,395.93	3/4	1,699.37	3/4	2,002.82	3/4	2,306.27	3/4	2,609.71	3/4	2,913.16
8	210.72	8	509.42	8	807.51	8	1,102.21	8	1,402.25	8	1,705.70	8	2,009.14	8	2,312.59	8	2,616.03	8	2,919.48
1/4	217.04	1/4	515.74	1/4	813.53	1/4	1,108.53	1/4	1,408.57	1/4	1,712.02	1/4	2,015.46	1/4	2,318.91	1/4	2,622.36	1/4	2,925.80
1/2	223.37	1/2	522.07	1/2	819.55	1/2	1,114.86	1/2	1,414.89	1/2	1,718.34	1/2	2,021.79	1/2	2,325.23	1/2	2,628.68	1/2	2,932.12
3/4	229.69	3/4	528.39	3/4	825.57	3/4	1,121.18	3/4	1,421.21	3/4	1,724.66	3/4	2,028.11	3/4	2,331.55	3/4	2,635.00	3/4	2,938.45
9	236.01	9	534.71	9	831.60	9	1,127.50	9	1,427.54	9	1,730.98	9	2,034.43	9	2,337.88	9	2,641.32	9	2,944.77
1/4	242.23	1/4	541.03	1/4	837.62	1/4	1,133.83	1/4	1,433.86	1/4	1,737.30	1/4	2,040.75	1/4	2,344.20	1/4	2,647.64	1/4	2,951.09
1/2	248.46	1/2	547.36	1/2	843.64	1/2	1,140.15	1/2	1,440.18	1/2	1,743.63	1/2	2,047.07	1/2	2,350.52	1/2	2,653.97	1/2	2,957.41
3/4	254.68	3/4	553.68	3/4	849.66	3/4	1,146.47	3/4	1,446.50	3/4	1,749.95	3/4	2,053.39	3/4	2,356.84	3/4	2,660.29	3/4	2,963.73
10	260.90	10	560.00	10	855.69	10	1,152.79	10	1,452.82	10	1,756.27	10	2,059.72	10	2,363.16	10	2,666.61	10	2,970.06
1/4	267.02	1/4	566.32	1/4	861.71	1/4	1,159.05	1/4	1,459.15	1/4	1,762.59	1/4	2,066.04	1/4	2,369.48	1/4	2,672.93	1/4	2,976.38
1/2	273.15	1/2	572.65	1/2	867.73	1/2	1,165.30	1/2	1,465.47	1/2	1,768.91	1/2	2,072.36	1/2	2,375.81	1/2	2,679.25	1/2	2,982.70
3/4	279.27	3/4	578.97	3/4	873.75	3/4	1,171.55	3/4	1,471.79	3/4	1,775.24	3/4	2,078.68	3/4	2,382.13	3/4	2,685.57	3/4	2,989.02
11	285.39	11	585.29	11	879.78	11	1,177.80	11	1,478.11	11	1,781.56	11	2,085.00	11	2,388.45	11	2,691.90	11	2,995.34
1/4	291.52	1/4	591.61	1/4	885.80	1/4	1,183.98	1/4	1,484.43	1/4	1,787.88	1/4	2,091.33	1/4	2,394.77	1/4	2,698.22	1/4	3,001.66
1/2	297.64	1/2	597.94	1/2	891.83	1/2	1,190.16	1/2	1,490.75	1/2	1,794.20	1/2	2,097.65	1/2	2,401.09	1/2	2,704.54	1/2	3,007.99
3/4	303.76	3/4	604.26	3/4	897.86	3/4	1,196.34	3/4	1,497.08	3/4	1,800.52	3/4	2,103.97	3/4	2,407.42	3/4	2,710.86	3/4	3,014.31

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 34'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 320"

3 PORT 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	3,020.63	0	3,324.06	0	3,626.63	0	3,929.21	0	4,230.33	0		0		0		0		0	
1/4	3,026.95	1/4	3,330.36	1/4	3,632.94	1/4	3,935.51	1/4	4,236.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,033.27	1/2	3,336.66	1/2	3,639.24	1/2	3,941.82	1/2	4,242.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,039.60	3/4	3,342.97	3/4	3,645.54	3/4	3,948.12	3/4	4,248.22	3/4		3/4		3/4		3/4		3/4	
1	3,045.92	1	3,349.27	1	3,651.85	1	3,954.43	1	4,254.18	1		1		1		1		1	
1/4	3,052.24	1/4	3,355.57	1/4	3,658.15	1/4	3,960.73	1/4	4,259.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,058.56	1/2	3,361.88	1/2	3,664.46	1/2	3,967.03	1/2	4,264.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,064.88	3/4	3,368.18	3/4	3,670.76	3/4	3,973.34	3/4	4,269.74	3/4		3/4		3/4		3/4		3/4	
2	3,071.20	2	3,374.49	2	3,677.06	2	3,979.64	2	4,274.93	2		2		2		2		2	
1/4	3,077.53	1/4	3,380.79	1/4	3,683.37	1/4	3,985.94	1/4	4,279.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,083.85	1/2	3,387.09	1/2	3,689.67	1/2	3,992.25	1/2	4,283.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,090.17	3/4	3,393.40	3/4	3,695.97	3/4	3,998.55	3/4	4,287.33	3/4		3/4		3/4		3/4		3/4	
3	3,096.49	3	3,399.70	3	3,702.28	3	4,004.86	3	4,291.46	3		3		3		3		3	
1/4	3,102.81	1/4	3,406.00	1/4	3,708.58	1/4	4,011.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,109.13	1/2	3,412.31	1/2	3,714.89	1/2	4,017.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,115.46	3/4	3,418.61	3/4	3,721.19	3/4	4,023.77	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,121.78	4	3,424.91	4	3,727.49	4	4,030.07	4		4		4		4		4		4	
1/4	3,128.10	1/4	3,431.22	1/4	3,733.80	1/4	4,036.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,134.42	1/2	3,437.52	1/2	3,740.10	1/2	4,042.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,140.74	3/4	3,443.83	3/4	3,746.40	3/4	4,048.98	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,147.07	5	3,450.13	5	3,752.71	5	4,055.28	5		5		5		5		5		5	
1/4	3,153.39	1/4	3,456.43	1/4	3,759.01	1/4	4,061.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,159.71	1/2	3,462.74	1/2	3,765.31	1/2	4,067.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,166.03	3/4	3,469.04	3/4	3,771.62	3/4	4,074.20	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,172.35	6	3,475.34	6	3,777.92	6	4,080.50	6		6		6		6		6		6	
1/4	3,178.67	1/4	3,481.65	1/4	3,784.23	1/4	4,086.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,185.00	1/2	3,487.95	1/2	3,790.53	1/2	4,093.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,191.32	3/4	3,494.26	3/4	3,796.83	3/4	4,099.32	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,197.64	7	3,500.56	7	3,803.14	7	4,105.60	7		7		7		7		7		7	
1/4	3,203.96	1/4	3,506.86	1/4	3,809.44	1/4	4,111.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,210.28	1/2	3,513.17	1/2	3,815.74	1/2	4,118.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,216.61	3/4	3,519.47	3/4	3,822.05	3/4	4,124.32	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,222.93	8	3,525.77	8	3,828.35	8	4,130.56	8		8		8		8		8		8	
1/4	3,229.25	1/4	3,532.08	1/4	3,834.66	1/4	4,136.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,235.57	1/2	3,538.38	1/2	3,840.96	1/2	4,143.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,241.89	3/4	3,544.69	3/4	3,847.26	3/4	4,149.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,248.21	9	3,550.99	9	3,853.57	9	4,155.53	9		9		9		9		9		9	
1/4	3,254.54	1/4	3,557.29	1/4	3,859.87	1/4	4,161.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,260.86	1/2	3,563.60	1/2	3,866.17	1/2	4,168.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,267.18	3/4	3,569.90	3/4	3,872.48	3/4	4,174.25	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,273.50	10	3,576.20	10	3,878.78	10	4,180.49	10		10		10		10		10		10	
1/4	3,279.82	1/4	3,582.51	1/4	3,885.09	1/4	4,186.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,286.15	1/2	3,588.81	1/2	3,891.39	1/2	4,192.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,292.47	3/4	3,595.11	3/4	3,897.69	3/4	4,199.21	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,298.79	11	3,601.42	11	3,904.00	11	4,205.44	11		11		11		11		11		11	
1/4	3,305.11	1/4	3,607.72	1/4	3,910.30	1/4	4,211.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,311.42	1/2	3,614.03	1/2	3,916.60	1/2	4,217.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,317.74	3/4	3,620.33	3/4	3,922.91	3/4	4,224.11	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL
CALCULATED: 06/25/2019 CL
PRINTED: 06/25/2019 JS

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 320"

3 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	20.88	0	309.98	0	610.76	0	913.63	0	1,216.26	0	1,517.23	0	1,820.77	0	2,124.31	0	2,427.85	0	2,731.38
1/4	25.43	1/4	316.10	1/4	617.09	1/4	919.94	1/4	1,222.44	1/4	1,523.56	1/4	1,827.10	1/4	2,130.63	1/4	2,434.17	1/4	2,737.71
1/2	29.97	1/2	322.23	1/2	623.41	1/2	926.25	1/2	1,228.62	1/2	1,529.88	1/2	1,833.42	1/2	2,136.96	1/2	2,440.49	1/2	2,744.03
3/4	34.51	3/4	328.35	3/4	629.74	3/4	932.56	3/4	1,234.81	3/4	1,536.21	3/4	1,839.74	3/4	2,143.28	3/4	2,446.82	3/4	2,750.36
1	39.06	1	334.48	1	636.06	1	938.87	1	1,240.99	1	1,542.53	1	1,846.07	1	2,149.60	1	2,453.14	1	2,756.68
1/4	44.77	1/4	340.60	1/4	642.39	1/4	945.18	1/4	1,247.17	1/4	1,548.85	1/4	1,852.39	1/4	2,155.93	1/4	2,459.47	1/4	2,763.00
1/2	50.48	1/2	346.73	1/2	648.71	1/2	951.50	1/2	1,253.35	1/2	1,555.18	1/2	1,858.71	1/2	2,162.25	1/2	2,465.79	1/2	2,769.33
3/4	56.20	3/4	352.85	3/4	655.03	3/4	957.82	3/4	1,259.53	3/4	1,561.50	3/4	1,865.04	3/4	2,168.58	3/4	2,472.11	3/4	2,775.65
2	61.91	2	358.98	2	661.36	2	964.13	2	1,265.71	2	1,567.82	2	1,871.36	2	2,174.90	2	2,478.44	2	2,781.97
1/4	68.01	1/4	365.10	1/4	667.68	1/4	970.46	1/4	1,271.89	1/4	1,574.15	1/4	1,877.68	1/4	2,181.22	1/4	2,484.76	1/4	2,788.30
1/2	74.12	1/2	371.23	1/2	674.01	1/2	976.78	1/2	1,278.07	1/2	1,580.47	1/2	1,884.01	1/2	2,187.55	1/2	2,491.08	1/2	2,794.62
3/4	80.22	3/4	377.35	3/4	680.33	3/4	983.11	3/4	1,284.25	3/4	1,586.79	3/4	1,890.33	3/4	2,193.87	3/4	2,497.41	3/4	2,800.95
3	86.32	3	383.48	3	686.66	3	989.43	3	1,290.43	3	1,593.12	3	1,896.66	3	2,200.19	3	2,503.73	3	2,807.27
1/4	92.44	1/4	389.70	1/4	692.97	1/4	995.76	1/4	1,296.62	1/4	1,599.44	1/4	1,902.98	1/4	2,206.52	1/4	2,510.05	1/4	2,813.59
1/2	98.56	1/2	395.93	1/2	699.28	1/2	1,002.08	1/2	1,302.80	1/2	1,605.77	1/2	1,909.30	1/2	2,212.84	1/2	2,516.38	1/2	2,819.92
3/4	104.68	3/4	402.15	3/4	705.60	3/4	1,008.41	3/4	1,308.98	3/4	1,612.09	3/4	1,915.63	3/4	2,219.16	3/4	2,522.70	3/4	2,826.24
4	110.80	4	408.38	4	711.91	4	1,014.73	4	1,315.16	4	1,618.41	4	1,921.95	4	2,225.49	4	2,529.03	4	2,832.56
1/4	116.92	1/4	414.70	1/4	718.22	1/4	1,021.06	1/4	1,321.41	1/4	1,624.74	1/4	1,928.27	1/4	2,231.81	1/4	2,535.35	1/4	2,838.89
1/2	123.04	1/2	421.03	1/2	724.52	1/2	1,027.38	1/2	1,327.66	1/2	1,631.06	1/2	1,934.60	1/2	2,238.14	1/2	2,541.67	1/2	2,845.21
3/4	129.17	3/4	427.35	3/4	730.82	3/4	1,033.71	3/4	1,333.92	3/4	1,637.38	3/4	1,940.92	3/4	2,244.46	3/4	2,548.00	3/4	2,851.53
5	135.29	5	433.68	5	737.13	5	1,040.03	5	1,340.17	5	1,643.71	5	1,947.25	5	2,250.78	5	2,554.32	5	2,857.86
1/4	141.51	1/4	440.00	1/4	743.43	1/4	1,046.36	1/4	1,346.49	1/4	1,650.03	1/4	1,953.57	1/4	2,257.11	1/4	2,560.64	1/4	2,864.18
1/2	147.74	1/2	446.33	1/2	749.73	1/2	1,052.68	1/2	1,352.82	1/2	1,656.36	1/2	1,959.89	1/2	2,263.43	1/2	2,566.97	1/2	2,870.51
3/4	153.96	3/4	452.65	3/4	756.04	3/4	1,059.01	3/4	1,359.14	3/4	1,662.68	3/4	1,966.22	3/4	2,269.75	3/4	2,573.29	3/4	2,876.83
6	160.19	6	458.98	6	762.34	6	1,065.33	6	1,365.47	6	1,669.00	6	1,972.54	6	2,276.08	6	2,579.62	6	2,883.15
1/4	166.51	1/4	465.30	1/4	768.64	1/4	1,071.65	1/4	1,371.79	1/4	1,675.33	1/4	1,978.86	1/4	2,282.40	1/4	2,585.94	1/4	2,889.48
1/2	172.84	1/2	471.62	1/2	774.95	1/2	1,077.98	1/2	1,378.11	1/2	1,681.65	1/2	1,985.19	1/2	2,288.73	1/2	2,592.26	1/2	2,895.80
3/4	179.16	3/4	477.95	3/4	781.25	3/4	1,084.30	3/4	1,384.44	3/4	1,687.97	3/4	1,991.51	3/4	2,295.05	3/4	2,598.59	3/4	2,902.12
7	185.48	7	484.27	7	787.55	7	1,090.63	7	1,390.76	7	1,694.30	7	1,997.84	7	2,301.37	7	2,604.91	7	2,908.45
1/4	191.81	1/4	490.60	1/4	793.86	1/4	1,096.95	1/4	1,397.08	1/4	1,700.62	1/4	2,004.16	1/4	2,307.70	1/4	2,611.23	1/4	2,914.77
1/2	198.13	1/2	496.92	1/2	800.16	1/2	1,103.28	1/2	1,403.41	1/2	1,706.95	1/2	2,010.48	1/2	2,314.02	1/2	2,617.56	1/2	2,921.10
3/4	204.46	3/4	503.25	3/4	806.46	3/4	1,109.60	3/4	1,409.73	3/4	1,713.27	3/4	2,016.81	3/4	2,320.34	3/4	2,623.88	3/4	2,927.42
8	210.78	8	509.57	8	812.77	8	1,115.93	8	1,416.05	8	1,719.59	8	2,023.13	8	2,326.67	8	2,630.21	8	2,933.74
1/4	217.11	1/4	515.90	1/4	819.07	1/4	1,122.25	1/4	1,422.38	1/4	1,725.92	1/4	2,029.45	1/4	2,332.99	1/4	2,636.53	1/4	2,940.07
1/2	223.43	1/2	522.22	1/2	825.37	1/2	1,128.58	1/2	1,428.70	1/2	1,732.24	1/2	2,035.78	1/2	2,339.32	1/2	2,642.85	1/2	2,946.39
3/4	229.76	3/4	528.54	3/4	831.68	3/4	1,134.90	3/4	1,435.03	3/4	1,738.56	3/4	2,042.10	3/4	2,345.64	3/4	2,649.18	3/4	2,952.71
9	236.08	9	534.87	9	837.98	9	1,141.23	9	1,441.35	9	1,744.89	9	2,048.42	9	2,351.96	9	2,655.50	9	2,959.04
1/4	242.30	1/4	541.19	1/4	844.28	1/4	1,147.55	1/4	1,447.67	1/4	1,751.21	1/4	2,054.75	1/4	2,358.29	1/4	2,661.82	1/4	2,965.36
1/2	248.53	1/2	547.52	1/2	850.59	1/2	1,153.88	1/2	1,454.00	1/2	1,757.53	1/2	2,061.07	1/2	2,364.61	1/2	2,668.15	1/2	2,971.69
3/4	254.75	3/4	553.84	3/4	856.89	3/4	1,160.20	3/4	1,460.32	3/4	1,763.86	3/4	2,067.40	3/4	2,370.93	3/4	2,674.47	3/4	2,978.01
10	260.98	10	560.17	10	863.19	10	1,166.53	10	1,466.64	10	1,770.18	10	2,073.72	10	2,377.26	10	2,680.79	10	2,984.33
1/4	267.10	1/4	566.49	1/4	869.50	1/4	1,172.78	1/4	1,472.97	1/4	1,776.51	1/4	2,080.04	1/4	2,383.58	1/4	2,687.12	1/4	2,990.66
1/2	273.23	1/2	572.82	1/2	875.80	1/2	1,179.03	1/2	1,479.29	1/2	1,782.83	1/2	2,086.37	1/2	2,389.90	1/2	2,693.44	1/2	2,996.98
3/4	279.35	3/4	579.14	3/4	882.10	3/4	1,185.28	3/4	1,485.62	3/4	1,789.15	3/4	2,092.69	3/4	2,396.23	3/4	2,699.77	3/4	3,003.30
11	285.48	11	585.47	11	888.41	11	1,191.54	11	1,491.94	11	1,795.48	11	2,099.01	11	2,402.55	11	2,706.09	11	3,009.63
1/4	291.60	1/4	591.79	1/4	894.71	1/4	1,197.72	1/4	1,498.26	1/4	1,801.80	1/4	2,105.34	1/4	2,408.88	1/4	2,712.41	1/4	3,015.95
1/2	297.73	1/2	598.11	1/2	901.02	1/2	1,203.90	1/2	1,504.59	1/2	1,808.12	1/2	2,111.66	1/2	2,415.20	1/2	2,718.74	1/2	3,022.27
3/4	303.85	3/4	604.44	3/4	907.33	3/4	1,210.08	3/4	1,510.91	3/4	1,814.45	3/4	2,117.99	3/4	2,421.52	3/4	2,725.06	3/4	3,028.60

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 34'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 320"

3 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	3,034.92	0	3,338.45	0	3,641.12	0	3,943.78	0	4,244.99	0		0		0		0		0	
1/4	3,041.25	1/4	3,344.75	1/4	3,647.42	1/4	3,950.09	1/4	4,250.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,047.57	1/2	3,351.06	1/2	3,653.73	1/2	3,956.40	1/2	4,256.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,053.89	3/4	3,357.36	3/4	3,660.03	3/4	3,962.70	3/4	4,262.88	3/4		3/4		3/4		3/4		3/4	
1	3,060.22	1	3,363.67	1	3,666.34	1	3,969.01	1	4,268.84	1		1		1		1		1	
1/4	3,066.54	1/4	3,369.97	1/4	3,672.64	1/4	3,975.31	1/4	4,274.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,072.86	1/2	3,376.28	1/2	3,678.95	1/2	3,981.62	1/2	4,279.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,079.19	3/4	3,382.59	3/4	3,685.25	3/4	3,987.92	3/4	4,284.41	3/4		3/4		3/4		3/4		3/4	
2	3,085.51	2	3,388.89	2	3,691.56	2	3,994.23	2	4,289.59	2		2		2		2		2	
1/4	3,091.84	1/4	3,395.20	1/4	3,697.87	1/4	4,000.53	1/4	4,293.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,098.16	1/2	3,401.50	1/2	3,704.17	1/2	4,006.84	1/2	4,297.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,104.48	3/4	3,407.81	3/4	3,710.48	3/4	4,013.15	3/4	4,302.00	3/4		3/4		3/4		3/4		3/4	
3	3,110.81	3	3,414.11	3	3,716.78	3	4,019.45	3	4,306.13	3		3		3		3		3	
1/4	3,117.13	1/4	3,420.42	1/4	3,723.09	1/4	4,025.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,123.45	1/2	3,426.73	1/2	3,729.39	1/2	4,032.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,129.78	3/4	3,433.03	3/4	3,735.70	3/4	4,038.37	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,136.10	4	3,439.34	4	3,742.01	4	4,044.67	4		4		4		4		4		4	
1/4	3,142.42	1/4	3,445.64	1/4	3,748.31	1/4	4,050.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,148.75	1/2	3,451.95	1/2	3,754.62	1/2	4,057.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,155.07	3/4	3,458.25	3/4	3,760.92	3/4	4,063.59	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,161.40	5	3,464.56	5	3,767.23	5	4,069.90	5		5		5		5		5		5	
1/4	3,167.72	1/4	3,470.86	1/4	3,773.53	1/4	4,076.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,174.04	1/2	3,477.17	1/2	3,779.84	1/2	4,082.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,180.37	3/4	3,483.48	3/4	3,786.14	3/4	4,088.81	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,186.69	6	3,489.78	6	3,792.45	6	4,095.12	6		6		6		6		6		6	
1/4	3,193.01	1/4	3,496.09	1/4	3,798.76	1/4	4,101.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,199.34	1/2	3,502.39	1/2	3,805.06	1/2	4,107.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,205.66	3/4	3,508.70	3/4	3,811.37	3/4	4,113.95	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,211.99	7	3,515.00	7	3,817.67	7	4,120.22	7		7		7		7		7		7	
1/4	3,218.31	1/4	3,521.31	1/4	3,823.98	1/4	4,126.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,224.63	1/2	3,527.61	1/2	3,830.28	1/2	4,132.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,230.96	3/4	3,533.92	3/4	3,836.59	3/4	4,138.95	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,237.28	8	3,540.23	8	3,842.89	8	4,145.20	8		8		8		8		8		8	
1/4	3,243.60	1/4	3,546.53	1/4	3,849.20	1/4	4,151.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,249.93	1/2	3,552.84	1/2	3,855.51	1/2	4,157.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,256.25	3/4	3,559.14	3/4	3,861.81	3/4	4,163.93	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,262.58	9	3,565.45	9	3,868.12	9	4,170.17	9		9		9		9		9		9	
1/4	3,268.90	1/4	3,571.75	1/4	3,874.42	1/4	4,176.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,275.22	1/2	3,578.06	1/2	3,880.73	1/2	4,182.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,281.55	3/4	3,584.37	3/4	3,887.03	3/4	4,188.90	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,287.87	10	3,590.67	10	3,893.34	10	4,195.14	10		10		10		10		10		10	
1/4	3,294.19	1/4	3,596.98	1/4	3,899.65	1/4	4,201.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,300.52	1/2	3,603.28	1/2	3,905.95	1/2	4,207.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,306.84	3/4	3,609.59	3/4	3,912.26	3/4	4,213.85	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,313.16	11	3,615.89	11	3,918.56	11	4,220.09	11		11		11		11		11		11	
1/4	3,319.49	1/4	3,622.20	1/4	3,924.87	1/4	4,226.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,325.81	1/2	3,628.50	1/2	3,931.17	1/2	4,232.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,332.13	3/4	3,634.81	3/4	3,937.48	3/4	4,238.76	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL
CALCULATED: 06/25/2019 CL
PRINTED: 06/25/2019 JS

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 320"

4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-11 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.	IN	10 FT.
0	4.73	0	165.23	0	381.00	0	593.63	0	808.25	0	1,022.98	0	1,240.95	0	1,458.95	0	1,676.64	0	1,894.34	0	
1/4	6.69	1/4	169.64	1/4	385.54	1/4	597.98	1/4	812.69	1/4	1,027.49	1/4	1,245.50	1/4	1,463.49	1/4	1,681.18	1/4	1,898.87	1/4	
1/2	8.65	1/2	174.05	1/2	390.09	1/2	602.34	1/2	817.13	1/2	1,031.99	1/2	1,250.05	1/2	1,468.02	1/2	1,685.71	1/2	1,903.40	1/2	
3/4	10.61	3/4	178.46	3/4	394.64	3/4	606.69	3/4	821.57	3/4	1,036.50	3/4	1,254.60	3/4	1,472.56	3/4	1,690.25	3/4	1,907.93	3/4	
1	12.58	1	182.88	1	399.19	1	611.04	1	826.00	1	1,041.00	1	1,259.15	1	1,477.09	1	1,694.79	1	1,912.46	1	
1/4	14.57	1/4	187.29	1/4	403.74	1/4	615.40	1/4	830.44	1/4	1,045.52	1/4	1,263.70	1/4	1,481.63	1/4	1,699.32	1/4	1,916.96	1/4	
1/2	16.57	1/2	191.70	1/2	408.29	1/2	619.76	1/2	834.88	1/2	1,050.04	1/2	1,268.25	1/2	1,486.16	1/2	1,703.86	1/2	1,921.47	1/2	
3/4	18.57	3/4	196.11	3/4	412.83	3/4	624.12	3/4	839.32	3/4	1,054.55	3/4	1,272.80	3/4	1,490.70	3/4	1,708.39	3/4	1,925.98	3/4	
2	20.56	2	200.52	2	417.38	2	628.47	2	843.75	2	1,059.07	2	1,277.35	2	1,495.23	2	1,712.93	2	1,930.48	2	
1/4	20.84	1/4	204.93	1/4	421.93	1/4	632.83	1/4	848.19	1/4	1,063.61	1/4	1,281.90	1/4	1,499.77	1/4	1,717.46	1/4	1,934.98	1/4	
1/2	21.12	1/2	209.34	1/2	426.48	1/2	637.20	1/2	852.63	1/2	1,068.15	1/2	1,286.45	1/2	1,504.30	1/2	1,722.00	1/2	1,939.47	1/2	
3/4	21.40	3/4	213.75	3/4	431.03	3/4	641.56	3/4	857.07	3/4	1,072.69	3/4	1,291.00	3/4	1,508.84	3/4	1,726.53	3/4	1,943.96	3/4	
3	21.68	3	218.17	3	435.57	3	645.92	3	861.50	3	1,077.24	3	1,295.55	3	1,513.37	3	1,731.07	3	1,948.45	3	
1/4	23.52	1/4	222.58	1/4	440.12	1/4	650.29	1/4	865.94	1/4	1,081.78	1/4	1,300.10	1/4	1,517.91	1/4	1,735.60	1/4	1,952.94	1/4	
1/2	25.35	1/2	226.99	1/2	444.67	1/2	654.66	1/2	870.38	1/2	1,086.32	1/2	1,304.65	1/2	1,522.44	1/2	1,740.14	1/2	1,957.43	1/2	
3/4	27.19	3/4	231.40	3/4	449.22	3/4	659.04	3/4	874.82	3/4	1,090.87	3/4	1,309.20	3/4	1,526.98	3/4	1,744.67	3/4	1,961.92	3/4	
4	29.02	4	235.81	4	453.77	4	663.41	4	879.25	4	1,095.41	4	1,313.75	4	1,531.51	4	1,749.21	4	1,966.41	4	
1/4	32.01	1/4	240.26	1/4	458.27	1/4	667.83	1/4	883.69	1/4	1,099.95	1/4	1,318.30	1/4	1,536.05	1/4	1,753.74	1/4	1,970.90	1/4	
1/2	35.00	1/2	244.71	1/2	462.77	1/2	672.24	1/2	888.13	1/2	1,104.49	1/2	1,322.84	1/2	1,540.59	1/2	1,758.28	1/2	1,975.39	1/2	
3/4	37.99	3/4	249.15	3/4	467.27	3/4	676.66	3/4	892.57	3/4	1,109.04	3/4	1,327.39	3/4	1,545.12	3/4	1,762.81	3/4	1,979.88	3/4	
5	40.98	5	253.60	5	471.76	5	681.08	5	897.00	5	1,113.58	5	1,331.94	5	1,549.66	5	1,767.35	5	1,984.37	5	
1/4	44.98	1/4	258.15	1/4	476.12	1/4	685.62	1/4	901.46	1/4	1,118.12	1/4	1,336.48	1/4	1,554.19	1/4	1,771.89	1/4	1,988.86	1/4	
1/2	48.97	1/2	262.71	1/2	480.47	1/2	690.17	1/2	905.91	1/2	1,122.67	1/2	1,341.02	1/2	1,558.73	1/2	1,776.42	1/2	1,993.35	1/2	
3/4	52.96	3/4	267.27	3/4	484.83	3/4	694.71	3/4	910.37	3/4	1,127.21	3/4	1,345.56	3/4	1,563.26	3/4	1,780.96	3/4	1,997.85	3/4	
6	56.96	6	271.82	6	489.18	6	699.26	6	914.82	6	1,131.76	6	1,350.10	6	1,567.80	6	1,785.49	6	2,002.34	6	
1/4	61.41	1/4	276.37	1/4	493.53	1/4	703.81	1/4	919.33	1/4	1,136.31	1/4	1,354.64	1/4	1,572.33	1/4	1,790.03	1/4	2,006.85	1/4	
1/2	65.87	1/2	280.93	1/2	497.89	1/2	708.35	1/2	923.84	1/2	1,140.86	1/2	1,359.17	1/2	1,576.87	1/2	1,794.56	1/2	2,011.35	1/2	
3/4	70.33	3/4	285.48	3/4	502.24	3/4	712.90	3/4	928.34	3/4	1,145.41	3/4	1,363.71	3/4	1,581.40	3/4	1,799.10	3/4	2,015.86	3/4	
7	74.79	7	290.03	7	506.60	7	717.44	7	932.85	7	1,149.96	7	1,368.24	7	1,585.94	7	1,803.63	7	2,020.37	7	
1/4	79.35	1/4	294.58	1/4	510.95	1/4	721.99	1/4	937.36	1/4	1,154.51	1/4	1,372.78	1/4	1,590.47	1/4	1,808.17	1/4	2,024.68	1/4	
1/2	83.92	1/2	299.13	1/2	515.30	1/2	726.54	1/2	941.86	1/2	1,159.06	1/2	1,377.31	1/2	1,595.01	1/2	1,812.70	1/2	2,029.00	1/2	
3/4	88.48	3/4	303.68	3/4	519.65	3/4	731.08	3/4	946.37	3/4	1,163.61	3/4	1,381.85	3/4	1,599.54	3/4	1,817.24	3/4	2,033.31	3/4	
8	93.05	8	308.23	8	524.00	8	735.63	8	950.87	8	1,168.15	8	1,386.38	8	1,604.08	8	1,821.77	8	2,037.63	8	
1/4	97.61	1/4	312.78	1/4	528.35	1/4	740.17	1/4	955.38	1/4	1,172.70	1/4	1,390.92	1/4	1,608.61	1/4	1,826.31	1/4	2,041.18	1/4	
1/2	102.17	1/2	317.32	1/2	532.71	1/2	744.72	1/2	959.89	1/2	1,177.25	1/2	1,395.46	1/2	1,613.15	1/2	1,830.84	1/2	2,044.74	1/2	
3/4	106.74	3/4	321.87	3/4	537.06	3/4	749.27	3/4	964.39	3/4	1,181.80	3/4	1,399.99	3/4	1,617.69	3/4	1,835.38	3/4	2,048.30	3/4	
9	111.30	9	326.42	9	541.41	9	753.81	9	968.90	9	1,186.35	9	1,404.53	9	1,622.22	9	1,839.91	9	2,051.85	9	
1/4	115.85	1/4	330.97	1/4	545.76	1/4	758.36	1/4	973.41	1/4	1,190.90	1/4	1,409.06	1/4	1,626.76	1/4	1,844.45	1/4	2,054.64	1/4	
1/2	120.41	1/2	335.52	1/2	550.11	1/2	762.90	1/2	977.91	1/2	1,195.45	1/2	1,413.60	1/2	1,631.29	1/2	1,848.99	1/2	2,057.44	1/2	
3/4	124.96	3/4	340.06	3/4	554.47	3/4	767.45	3/4	982.42	3/4	1,200.00	3/4	1,418.13	3/4	1,635.83	3/4	1,853.52	3/4	2,060.23	3/4	
10	129.51	10	344.61	10	558.82	10	772.00	10	986.93	10	1,204.55	10	1,422.67	10	1,640.36	10	1,858.06	10	2,063.02	10	
1/4	134.03	1/4	349.16	1/4	563.17	1/4	776.54	1/4	991.43	1/4	1,209.10	1/4	1,427.20	1/4	1,644.90	1/4	1,862.59	1/4	2,065.06	1/4	
1/2	138.55	1/2	353.71	1/2	567.52	1/2	781.09	1/2	995.94	1/2	1,213.65	1/2	1,431.74	1/2	1,649.43	1/2	1,867.13	1/2	2,067.09	1/2	
3/4	143.07	3/4	358.26	3/4	571.87	3/4	785.63	3/4	1,000.45	3/4	1,218.20	3/4	1,436.27	3/4	1,653.97	3/4	1,871.66	3/4	2,069.12	3/4	
11	147.59	11	362.80	11	576.22	11	790.18	11	1,004.95	11	1,222.75	11	1,440.81	11	1,658.50	11	1,876.20	11	2,071.15	11	
1/4	152.00	1/4	367.35	1/4	580.58	1/4	794.70	1/4	1,009.46	1/4	1,227.30	1/4	1,445.34	1/4	1,663.04	1/4	1,880.73	1/4	2,072.42	1/4	
1/2	156.41	1/2	371.90	1/2	584.93	1/2	799.22	1/2	1,013.97	1/2	1,231.85	1/2	1,449.88	1/2	1,667.57	1/2	1,885.27	1/2	2,073.70	1/2	
3/4	160.82	3/4	376.45	3/4	589.28	3/4	803.74	3/4	1,018.47	3/4	1,236.40	3/4	1,454.41	3/4	1,672.11	3/4	1,889.80	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: 06/24/2019 CL
RECALCULATED: 07/02/2019 CL
REPRINTED: 07/02/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "MM 320"

4 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-11 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.	IN	10 FT.
0	4.72	0	165.24	0	379.47	0	595.67	0	812.26	0	1,025.67	0	1,242.14	0	1,458.48	0	1,674.52	0	1,890.55	0	
1/4	6.68	1/4	169.65	1/4	383.99	1/4	600.17	1/4	816.67	1/4	1,030.15	1/4	1,246.66	1/4	1,462.98	1/4	1,679.02	1/4	1,895.04	1/4	
1/2	8.64	1/2	174.06	1/2	388.50	1/2	604.67	1/2	821.08	1/2	1,034.63	1/2	1,251.17	1/2	1,467.48	1/2	1,683.52	1/2	1,899.54	1/2	
3/4	10.60	3/4	178.46	3/4	393.01	3/4	609.17	3/4	825.49	3/4	1,039.11	3/4	1,255.69	3/4	1,471.98	3/4	1,688.02	3/4	1,904.03	3/4	
1	12.56	1	182.87	1	397.53	1	613.66	1	829.90	1	1,043.59	1	1,260.20	1	1,476.49	1	1,692.52	1	1,908.53	1	
1/4	14.56	1/4	187.25	1/4	402.04	1/4	618.17	1/4	834.31	1/4	1,048.08	1/4	1,264.72	1/4	1,480.99	1/4	1,697.02	1/4	1,913.00	1/4	
1/2	16.55	1/2	191.63	1/2	406.55	1/2	622.67	1/2	838.72	1/2	1,052.56	1/2	1,269.23	1/2	1,485.49	1/2	1,701.52	1/2	1,917.47	1/2	
3/4	18.55	3/4	196.00	3/4	411.07	3/4	627.17	3/4	843.13	3/4	1,057.05	3/4	1,273.75	3/4	1,489.99	3/4	1,706.02	3/4	1,921.95	3/4	
2	20.55	2	200.38	2	415.58	2	631.67	2	847.54	2	1,061.54	2	1,278.26	2	1,494.49	2	1,710.52	2	1,926.42	2	
1/4	20.83	1/4	204.76	1/4	420.09	1/4	636.18	1/4	851.95	1/4	1,066.05	1/4	1,282.78	1/4	1,498.99	1/4	1,715.02	1/4	1,930.88	1/4	
1/2	21.11	1/2	209.13	1/2	424.61	1/2	640.69	1/2	856.36	1/2	1,070.57	1/2	1,287.29	1/2	1,503.49	1/2	1,719.52	1/2	1,935.33	1/2	
3/4	21.40	3/4	213.51	3/4	429.12	3/4	645.19	3/4	860.77	3/4	1,075.08	3/4	1,291.81	3/4	1,507.99	3/4	1,724.02	3/4	1,939.79	3/4	
3	21.68	3	217.89	3	433.63	3	649.70	3	865.18	3	1,079.60	3	1,296.32	3	1,512.49	3	1,728.52	3	1,944.24	3	
1/4	23.52	1/4	222.27	1/4	438.15	1/4	654.22	1/4	869.59	1/4	1,084.11	1/4	1,300.84	1/4	1,516.99	1/4	1,733.03	1/4	1,948.70	1/4	
1/2	25.36	1/2	226.64	1/2	442.66	1/2	658.74	1/2	874.00	1/2	1,088.63	1/2	1,305.35	1/2	1,521.49	1/2	1,737.53	1/2	1,953.15	1/2	
3/4	27.19	3/4	231.02	3/4	447.17	3/4	663.26	3/4	878.41	3/4	1,093.14	3/4	1,309.87	3/4	1,525.99	3/4	1,742.03	3/4	1,957.61	3/4	
4	29.03	4	235.40	4	451.69	4	667.77	4	882.82	4	1,097.66	4	1,314.38	4	1,530.49	4	1,746.53	4	1,962.07	4	
1/4	32.02	1/4	239.81	1/4	456.20	1/4	672.29	1/4	887.23	1/4	1,102.18	1/4	1,318.90	1/4	1,534.99	1/4	1,751.03	1/4	1,966.52	1/4	
1/2	35.01	1/2	244.22	1/2	460.71	1/2	676.81	1/2	891.64	1/2	1,106.69	1/2	1,323.41	1/2	1,539.49	1/2	1,755.53	1/2	1,970.98	1/2	
3/4	38.00	3/4	248.64	3/4	465.22	3/4	681.33	3/4	896.05	3/4	1,111.21	3/4	1,327.93	3/4	1,544.00	3/4	1,760.03	3/4	1,975.43	3/4	
5	40.99	5	253.05	5	469.73	5	685.85	5	900.46	5	1,115.72	5	1,332.44	5	1,548.50	5	1,764.53	5	1,979.89	5	
1/4	44.97	1/4	257.57	1/4	474.23	1/4	690.37	1/4	904.89	1/4	1,120.24	1/4	1,336.95	1/4	1,553.00	1/4	1,769.03	1/4	1,984.35	1/4	
1/2	48.96	1/2	262.09	1/2	478.73	1/2	694.88	1/2	909.32	1/2	1,124.75	1/2	1,341.45	1/2	1,557.50	1/2	1,773.53	1/2	1,988.82	1/2	
3/4	52.95	3/4	266.61	3/4	483.23	3/4	699.40	3/4	913.74	3/4	1,129.27	3/4	1,345.96	3/4	1,562.00	3/4	1,778.03	3/4	1,993.29	3/4	
6	56.94	6	271.13	6	487.73	6	703.92	6	918.17	6	1,133.78	6	1,350.47	6	1,566.50	6	1,782.53	6	1,997.76	6	
1/4	61.40	1/4	275.65	1/4	492.23	1/4	708.44	1/4	922.65	1/4	1,138.30	1/4	1,354.97	1/4	1,571.00	1/4	1,787.03	1/4	2,002.26	1/4	
1/2	65.85	1/2	280.17	1/2	496.73	1/2	712.96	1/2	927.13	1/2	1,142.81	1/2	1,359.47	1/2	1,575.50	1/2	1,791.53	1/2	2,006.76	1/2	
3/4	70.30	3/4	284.69	3/4	501.23	3/4	717.48	3/4	931.61	3/4	1,147.33	3/4	1,363.97	3/4	1,580.00	3/4	1,796.03	3/4	2,011.26	3/4	
7	74.75	7	289.21	7	505.72	7	722.00	7	936.09	7	1,151.84	7	1,368.47	7	1,584.50	7	1,800.54	7	2,015.76	7	
1/4	79.31	1/4	293.72	1/4	510.22	1/4	726.51	1/4	940.57	1/4	1,156.36	1/4	1,372.97	1/4	1,589.00	1/4	1,805.04	1/4	2,020.07	1/4	
1/2	83.87	1/2	298.23	1/2	514.72	1/2	731.03	1/2	945.05	1/2	1,160.87	1/2	1,377.47	1/2	1,593.50	1/2	1,809.54	1/2	2,024.38	1/2	
3/4	88.43	3/4	302.75	3/4	519.22	3/4	735.55	3/4	949.53	3/4	1,165.39	3/4	1,381.97	3/4	1,598.00	3/4	1,814.04	3/4	2,028.69	3/4	
8	92.99	8	307.26	8	523.71	8	740.07	8	954.01	8	1,169.90	8	1,386.47	8	1,602.50	8	1,818.54	8	2,033.00	8	
1/4	97.55	1/4	311.77	1/4	528.21	1/4	744.59	1/4	958.48	1/4	1,174.42	1/4	1,390.97	1/4	1,607.01	1/4	1,823.04	1/4	2,036.55	1/4	
1/2	102.11	1/2	316.29	1/2	532.71	1/2	749.11	1/2	962.96	1/2	1,178.93	1/2	1,395.47	1/2	1,611.51	1/2	1,827.54	1/2	2,040.10	1/2	
3/4	106.67	3/4	320.80	3/4	537.21	3/4	753.62	3/4	967.44	3/4	1,183.45	3/4	1,399.97	3/4	1,616.01	3/4	1,832.04	3/4	2,043.65	3/4	
9	111.23	9	325.31	9	541.70	9	758.14	9	971.92	9	1,187.96	9	1,404.47	9	1,620.51	9	1,836.54	9	2,047.20	9	
1/4	115.79	1/4	329.83	1/4	546.20	1/4	762.66	1/4	976.40	1/4	1,192.48	1/4	1,408.97	1/4	1,625.01	1/4	1,841.04	1/4	2,049.99	1/4	
1/2	120.35	1/2	334.34	1/2	550.70	1/2	767.18	1/2	980.88	1/2	1,196.99	1/2	1,413.48	1/2	1,629.51	1/2	1,845.54	1/2	2,052.78	1/2	
3/4	124.91	3/4	338.85	3/4	555.20	3/4	771.70	3/4	985.36	3/4	1,201.51	3/4	1,417.98	3/4	1,634.01	3/4	1,850.04	3/4	2,055.57	3/4	
10	129.47	10	343.37	10	559.69	10	776.22	10	989.84	10	1,206.02	10	1,422.48	10	1,638.51	10	1,854.54	10	2,058.36	10	
1/4	134.00	1/4	347.88	1/4	564.19	1/4	780.73	1/4	994.32	1/4	1,210.54	1/4	1,426.98	1/4	1,643.01	1/4	1,859.04	1/4	2,060.39	1/4	
1/2	138.52	1/2	352.39	1/2	568.69	1/2	785.25	1/2	998.80	1/2	1,215.05	1/2	1,431.48	1/2	1,647.51	1/2	1,863.55	1/2	2,062.42	1/2	
3/4	143.05	3/4	356.91	3/4	573.18	3/4	789.77	3/4	1,003.28	3/4	1,219.57	3/4	1,435.98	3/4	1,652.01	3/4	1,868.05	3/4	2,064.45	3/4	
11	147.57	11	361.42	11	577.68	11	794.29	11	1,007.75	11	1,224.08	11	1,440.48	11	1,656.51	11	1,872.55	11	2,066.48	11	
1/4	151.99	1/4	365.93	1/4	582.18	1/4	798.78	1/4	1,012.23	1/4	1,228.60	1/4	1,444.98	1/4	1,661.01	1/4	1,877.05	1/4	2,067.75	1/4	
1/2	156.41	1/2	370.45	1/2	586.68	1/2	803.27	1/2	1,016.71	1/2	1,233.11	1/2	1,449.48	1/2	1,665.51	1/2	1,881.55	1/2	2,069.02	1/2	
3/4	160.82	3/4	374.96	3/4	591.17	3/4	807.77	3/4	1,021.19	3/4	1,237.63	3/4	1,453.98	3/4	1,670.02	3/4	1,886.05	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: 06/24/2019 CL
 RECALCULATED: 07/02/2019 CL
 PRINTED: 07/02/2019 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2019

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