



# BARGE "MPX 411"

## INNAGE (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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-03"

December 17, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "MPX 411"

**1 PORT  
INNAGE TABLE  
HERMETIC  
GAUGE HEIGHT 16'-04 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,366.65	0	3,709.52	0	4,052.46	0	4,394.75	0	4,736.12	0		0		0		0		0	
1/4	3,373.79	1/4	3,716.66	1/4	4,059.60	1/4	4,401.86	1/4	4,743.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,380.93	1/2	3,723.81	1/2	4,066.75	1/2	4,408.97	1/2	4,750.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,388.08	3/4	3,730.95	3/4	4,073.89	3/4	4,416.08	3/4	4,757.45	3/4		3/4		3/4		3/4		3/4	
1	3,395.22	1	3,738.10	1	4,081.04	1	4,423.19	1	4,764.56	1		1		1		1		1	
1/4	3,402.36	1/4	3,745.24	1/4	4,088.18	1/4	4,430.30	1/4	4,771.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,409.50	1/2	3,752.39	1/2	4,095.33	1/2	4,437.42	1/2	4,778.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,416.65	3/4	3,759.53	3/4	4,102.47	3/4	4,444.53	3/4	4,785.90	3/4		3/4		3/4		3/4		3/4	
2	3,423.79	2	3,766.67	2	4,109.62	2	4,451.64	2	4,793.01	2		2		2		2		2	
1/4	3,430.93	1/4	3,773.82	1/4	4,116.76	1/4	4,458.75	1/4	4,800.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.08	1/2	3,780.96	1/2	4,123.90	1/2	4,465.86	1/2	4,807.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.22	3/4	3,788.11	3/4	4,131.05	3/4	4,472.98	3/4	4,814.35	3/4		3/4		3/4		3/4		3/4	
3	3,452.36	3	3,795.25	3	4,138.19	3	4,480.09	3	4,821.46	3		3		3		3		3	
1/4	3,459.50	1/4	3,802.40	1/4	4,145.34	1/4	4,487.20	1/4	4,828.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,466.65	1/2	3,809.54	1/2	4,152.48	1/2	4,494.31	1/2	4,835.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,473.79	3/4	3,816.69	3/4	4,159.63	3/4	4,501.42	3/4	4,842.66	3/4		3/4		3/4		3/4		3/4	
4	3,480.93	4	3,823.83	4	4,166.77	4	4,508.54	4	4,849.73	4		4		4		4		4	
1/4	3,488.07	1/4	3,830.98	1/4	4,173.92	1/4	4,515.65	1/4	4,856.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.22	1/2	3,838.12	1/2	4,181.06	1/2	4,522.76	1/2	4,863.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.36	3/4	3,845.27	3/4	4,188.21	3/4	4,529.87	3/4	4,870.93	3/4		3/4		3/4		3/4		3/4	
5	3,509.50	5	3,852.41	5	4,195.35	5	4,536.98	5	4,878.00	5		5		5		5		5	
1/4	3,516.64	1/4	3,859.55	1/4	4,202.50	1/4	4,544.10	1/4	4,885.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,523.79	1/2	3,866.70	1/2	4,209.64	1/2	4,551.21	1/2	4,892.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,530.93	3/4	3,873.84	3/4	4,216.78	3/4	4,558.32	3/4	4,899.20	3/4		3/4		3/4		3/4		3/4	
6	3,538.07	6	3,880.99	6	4,223.93	6	4,565.43	6	4,906.26	6		6		6		6		6	
1/4	3,545.21	1/4	3,888.13	1/4	4,231.07	1/4	4,572.54	1/4	4,913.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.36	1/2	3,895.28	1/2	4,238.22	1/2	4,579.65	1/2	4,920.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.50	3/4	3,902.42	3/4	4,245.36	3/4	4,586.77	3/4	4,927.42	3/4		3/4		3/4		3/4		3/4	
7	3,566.64	7	3,909.57	7	4,252.51	7	4,593.88	7	4,934.47	7		7		7		7		7	
1/4	3,573.78	1/4	3,916.71	1/4	4,259.62	1/4	4,600.99	1/4	4,941.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,580.93	1/2	3,923.86	1/2	4,266.73	1/2	4,608.10	1/2	4,948.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,588.07	3/4	3,931.00	3/4	4,273.84	3/4	4,615.21	3/4	4,955.47	3/4		3/4		3/4		3/4		3/4	
8	3,595.21	8	3,938.15	8	4,280.96	8	4,622.33	8	4,962.47	8		8		8		8		8	
1/4	3,602.35	1/4	3,945.29	1/4	4,288.07	1/4	4,629.44	1/4	4,968.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.50	1/2	3,952.43	1/2	4,295.18	1/2	4,636.55	1/2	4,974.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.64	3/4	3,959.58	3/4	4,302.29	3/4	4,643.66	3/4	4,980.99	3/4		3/4		3/4		3/4		3/4	
9	3,623.78	9	3,966.72	9	4,309.40	9	4,650.77	9	4,987.16	9		9		9		9		9	
1/4	3,630.93	1/4	3,973.87	1/4	4,316.51	1/4	4,657.89	1/4	4,992.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.07	1/2	3,981.01	1/2	4,323.63	1/2	4,665.00	1/2	4,997.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.22	3/4	3,988.16	3/4	4,330.74	3/4	4,672.11	3/4	5,002.11	3/4		3/4		3/4		3/4		3/4	
10	3,652.36	10	3,995.30	10	4,337.85	10	4,679.22	10	5,007.09	10		10		10		10		10	
1/4	3,659.51	1/4	4,002.45	1/4	4,344.96	1/4	4,686.33	1/4	5,010.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.65	1/2	4,009.59	1/2	4,352.07	1/2	4,693.45	1/2	5,014.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,673.79	3/4	4,016.74	3/4	4,359.19	3/4	4,700.56	3/4	5,018.47	3/4		3/4		3/4		3/4		3/4	
11	3,680.94	11	4,023.88	11	4,366.30	11	4,707.67	11	5,022.26	11		11		11		11		11	
1/4	3,688.08	1/4	4,031.02	1/4	4,373.41	1/4	4,714.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.23	1/2	4,038.17	1/2	4,380.52	1/2	4,721.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.37	3/4	4,045.31	3/4	4,387.63	3/4	4,729.00	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

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# BARGE "MPX 411"

## 1 STBD

### INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,366.71	0	3,709.35	0	4,052.06	0	4,394.12	0	4,735.26	0		0		0		0		0	
1/4	3,373.85	1/4	3,716.49	1/4	4,059.20	1/4	4,401.23	1/4	4,742.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,380.99	1/2	3,723.63	1/2	4,066.34	1/2	4,408.33	1/2	4,749.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,388.13	3/4	3,730.77	3/4	4,073.48	3/4	4,415.44	3/4	4,756.58	3/4		3/4		3/4		3/4		3/4	
1	3,395.26	1	3,737.91	1	4,080.62	1	4,422.55	1	4,763.69	1		1		1		1		1	
1/4	3,402.40	1/4	3,745.05	1/4	4,087.76	1/4	4,429.65	1/4	4,770.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,409.54	1/2	3,752.19	1/2	4,094.90	1/2	4,436.76	1/2	4,777.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,416.68	3/4	3,759.33	3/4	4,102.04	3/4	4,443.87	3/4	4,785.01	3/4		3/4		3/4		3/4		3/4	
2	3,423.82	2	3,766.47	2	4,109.18	2	4,450.98	2	4,792.12	2		2		2		2		2	
1/4	3,430.95	1/4	3,773.61	1/4	4,116.32	1/4	4,458.08	1/4	4,799.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.09	1/2	3,780.75	1/2	4,123.46	1/2	4,465.19	1/2	4,806.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.23	3/4	3,787.89	3/4	4,130.60	3/4	4,472.30	3/4	4,813.44	3/4		3/4		3/4		3/4		3/4	
3	3,452.37	3	3,795.03	3	4,137.74	3	4,479.40	3	4,820.54	3		3		3		3		3	
1/4	3,459.50	1/4	3,802.17	1/4	4,144.88	1/4	4,486.51	1/4	4,827.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,466.64	1/2	3,809.31	1/2	4,152.02	1/2	4,493.62	1/2	4,834.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,473.78	3/4	3,816.45	3/4	4,159.16	3/4	4,500.72	3/4	4,841.73	3/4		3/4		3/4		3/4		3/4	
4	3,480.92	4	3,823.59	4	4,166.30	4	4,507.83	4	4,848.79	4		4		4		4		4	
1/4	3,488.06	1/4	3,830.73	1/4	4,173.44	1/4	4,514.94	1/4	4,855.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.19	1/2	3,837.87	1/2	4,180.58	1/2	4,522.05	1/2	4,862.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.33	3/4	3,845.01	3/4	4,187.72	3/4	4,529.15	3/4	4,869.98	3/4		3/4		3/4		3/4		3/4	
5	3,509.47	5	3,852.15	5	4,194.86	5	4,536.26	5	4,877.04	5		5		5		5		5	
1/4	3,516.61	1/4	3,859.29	1/4	4,202.00	1/4	4,543.37	1/4	4,884.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,523.74	1/2	3,866.43	1/2	4,209.14	1/2	4,550.47	1/2	4,891.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,530.88	3/4	3,873.57	3/4	4,216.28	3/4	4,557.58	3/4	4,898.23	3/4		3/4		3/4		3/4		3/4	
6	3,538.02	6	3,880.71	6	4,223.42	6	4,564.69	6	4,905.29	6		6		6		6		6	
1/4	3,545.16	1/4	3,887.85	1/4	4,230.56	1/4	4,571.80	1/4	4,912.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.30	1/2	3,894.99	1/2	4,237.70	1/2	4,578.90	1/2	4,919.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.43	3/4	3,902.13	3/4	4,244.84	3/4	4,586.01	3/4	4,926.43	3/4		3/4		3/4		3/4		3/4	
7	3,566.57	7	3,909.27	7	4,251.98	7	4,593.12	7	4,933.48	7		7		7		7		7	
1/4	3,573.71	1/4	3,916.41	1/4	4,259.08	1/4	4,600.22	1/4	4,940.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,580.85	1/2	3,923.55	1/2	4,266.19	1/2	4,607.33	1/2	4,947.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,587.99	3/4	3,930.69	3/4	4,273.30	3/4	4,614.44	3/4	4,954.46	3/4		3/4		3/4		3/4		3/4	
8	3,595.12	8	3,937.83	8	4,280.40	8	4,621.55	8	4,961.45	8		8		8		8		8	
1/4	3,602.26	1/4	3,944.97	1/4	4,287.51	1/4	4,628.65	1/4	4,967.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.40	1/2	3,952.10	1/2	4,294.62	1/2	4,635.76	1/2	4,973.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.54	3/4	3,959.24	3/4	4,301.73	3/4	4,642.87	3/4	4,979.96	3/4		3/4		3/4		3/4		3/4	
9	3,623.67	9	3,966.38	9	4,308.83	9	4,649.97	9	4,986.13	9		9		9		9		9	
1/4	3,630.81	1/4	3,973.52	1/4	4,315.94	1/4	4,657.08	1/4	4,991.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,637.95	1/2	3,980.66	1/2	4,323.05	1/2	4,664.19	1/2	4,996.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.09	3/4	3,987.80	3/4	4,330.15	3/4	4,671.30	3/4	5,001.07	3/4		3/4		3/4		3/4		3/4	
10	3,652.23	10	3,994.94	10	4,337.26	10	4,678.40	10	5,006.05	10		10		10		10		10	
1/4	3,659.37	1/4	4,002.08	1/4	4,344.37	1/4	4,685.51	1/4	5,009.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.51	1/2	4,009.22	1/2	4,351.48	1/2	4,692.62	1/2	5,013.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,673.65	3/4	4,016.36	3/4	4,358.58	3/4	4,699.72	3/4	5,017.42	3/4		3/4		3/4		3/4		3/4	
11	3,680.79	11	4,023.50	11	4,365.69	11	4,706.83	11	5,021.21	11		11		11		11		11	
1/4	3,687.93	1/4	4,030.64	1/4	4,372.80	1/4	4,713.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.07	1/2	4,037.78	1/2	4,379.90	1/2	4,721.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.21	3/4	4,044.92	3/4	4,387.01	3/4	4,728.15	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

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& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020





# BARGE "MPX 411"

## 2 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,423.92	0	3,767.66	0	4,111.40	0	4,454.48	0	4,796.66	0		0		0		0		0	
1/4	3,431.08	1/4	3,774.82	1/4	4,118.56	1/4	4,461.61	1/4	4,803.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.24	1/2	3,781.98	1/2	4,125.72	1/2	4,468.74	1/2	4,810.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.41	3/4	3,789.14	3/4	4,132.88	3/4	4,475.87	3/4	4,818.04	3/4		3/4		3/4		3/4		3/4	
1	3,452.57	1	3,796.30	1	4,140.04	1	4,483.00	1	4,825.17	1		1		1		1		1	
1/4	3,459.73	1/4	3,803.47	1/4	4,147.20	1/4	4,490.13	1/4	4,832.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,466.89	1/2	3,810.63	1/2	4,154.36	1/2	4,497.25	1/2	4,839.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,474.05	3/4	3,817.79	3/4	4,161.53	3/4	4,504.38	3/4	4,846.56	3/4		3/4		3/4		3/4		3/4	
2	3,481.21	2	3,824.95	2	4,168.69	2	4,511.51	2	4,853.68	2		2		2		2		2	
1/4	3,488.37	1/4	3,832.11	1/4	4,175.85	1/4	4,518.64	1/4	4,860.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.53	1/2	3,839.27	1/2	4,183.01	1/2	4,525.77	1/2	4,867.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.70	3/4	3,846.43	3/4	4,190.17	3/4	4,532.90	3/4	4,875.07	3/4		3/4		3/4		3/4		3/4	
3	3,509.86	3	3,853.59	3	4,197.33	3	4,540.03	3	4,882.20	3		3		3		3		3	
1/4	3,517.02	1/4	3,860.76	1/4	4,204.49	1/4	4,547.16	1/4	4,889.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.18	1/2	3,867.92	1/2	4,211.65	1/2	4,554.28	1/2	4,896.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,531.34	3/4	3,875.08	3/4	4,218.82	3/4	4,561.41	3/4	4,903.45	3/4		3/4		3/4		3/4		3/4	
4	3,538.50	4	3,882.24	4	4,225.98	4	4,568.54	4	4,910.54	4		4		4		4		4	
1/4	3,545.66	1/4	3,889.40	1/4	4,233.14	1/4	4,575.67	1/4	4,917.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.82	1/2	3,896.56	1/2	4,240.30	1/2	4,582.80	1/2	4,924.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.99	3/4	3,903.72	3/4	4,247.46	3/4	4,589.93	3/4	4,931.79	3/4		3/4		3/4		3/4		3/4	
5	3,567.15	5	3,910.88	5	4,254.62	5	4,597.06	5	4,938.87	5		5		5		5		5	
1/4	3,574.31	1/4	3,918.05	1/4	4,261.78	1/4	4,604.18	1/4	4,945.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,581.47	1/2	3,925.21	1/2	4,268.94	1/2	4,611.31	1/2	4,953.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,588.63	3/4	3,932.37	3/4	4,276.11	3/4	4,618.44	3/4	4,960.12	3/4		3/4		3/4		3/4		3/4	
6	3,595.79	6	3,939.53	6	4,283.27	6	4,625.57	6	4,967.20	6		6		6		6		6	
1/4	3,602.95	1/4	3,946.69	1/4	4,290.43	1/4	4,632.70	1/4	4,974.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,610.11	1/2	3,953.85	1/2	4,297.59	1/2	4,639.83	1/2	4,981.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,617.27	3/4	3,961.01	3/4	4,304.75	3/4	4,646.96	3/4	4,988.40	3/4		3/4		3/4		3/4		3/4	
7	3,624.44	7	3,968.17	7	4,311.91	7	4,654.08	7	4,995.47	7		7		7		7		7	
1/4	3,631.60	1/4	3,975.33	1/4	4,319.04	1/4	4,661.21	1/4	5,002.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.76	1/2	3,982.50	1/2	4,326.17	1/2	4,668.34	1/2	5,009.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.92	3/4	3,989.66	3/4	4,333.30	3/4	4,675.47	3/4	5,016.52	3/4		3/4		3/4		3/4		3/4	
8	3,653.08	8	3,996.82	8	4,340.43	8	4,682.60	8	5,023.53	8		8		8		8		8	
1/4	3,660.24	1/4	4,003.98	1/4	4,347.55	1/4	4,689.73	1/4	5,029.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,667.40	1/2	4,011.14	1/2	4,354.68	1/2	4,696.86	1/2	5,035.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,674.56	3/4	4,018.30	3/4	4,361.81	3/4	4,703.98	3/4	5,042.10	3/4		3/4		3/4		3/4		3/4	
9	3,681.73	9	4,025.46	9	4,368.94	9	4,711.11	9	5,048.28	9		9		9		9		9	
1/4	3,688.89	1/4	4,032.62	1/4	4,376.07	1/4	4,718.24	1/4	5,053.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,696.05	1/2	4,039.79	1/2	4,383.20	1/2	4,725.37	1/2	5,058.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,703.21	3/4	4,046.95	3/4	4,390.33	3/4	4,732.50	3/4	5,063.27	3/4		3/4		3/4		3/4		3/4	
10	3,710.37	10	4,054.11	10	4,397.45	10	4,739.63	10	5,068.26	10		10		10		10		10	
1/4	3,717.53	1/4	4,061.27	1/4	4,404.58	1/4	4,746.76	1/4	5,072.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,724.69	1/2	4,068.43	1/2	4,411.71	1/2	4,753.88	1/2	5,075.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,731.85	3/4	4,075.59	3/4	4,418.84	3/4	4,761.01	3/4	5,079.66	3/4		3/4		3/4		3/4		3/4	
11	3,739.02	11	4,082.75	11	4,425.97	11	4,768.14	11	5,083.46	11		11		11		11		11	
1/4	3,746.18	1/4	4,089.91	1/4	4,433.10	1/4	4,775.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,753.34	1/2	4,097.08	1/2	4,440.23	1/2	4,782.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,760.50	3/4	4,104.24	3/4	4,447.35	3/4	4,789.53	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

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ALL PRIOR TO 12/2020







# BARGE "MPX 411"

## 2 STBD INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,433.98	0	3,777.35	0	4,120.79	0	4,463.58	0	4,805.46	0		0		0		0		0	
1/4	3,441.13	1/4	3,784.50	1/4	4,127.95	1/4	4,470.70	1/4	4,812.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,448.28	1/2	3,791.66	1/2	4,135.10	1/2	4,477.83	1/2	4,819.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,455.44	3/4	3,798.81	3/4	4,142.26	3/4	4,484.95	3/4	4,826.82	3/4		3/4		3/4		3/4		3/4	
1	3,462.59	1	3,805.97	1	4,149.41	1	4,492.07	1	4,833.95	1		1		1		1		1	
1/4	3,469.74	1/4	3,813.12	1/4	4,156.57	1/4	4,499.19	1/4	4,841.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,476.89	1/2	3,820.28	1/2	4,163.72	1/2	4,506.32	1/2	4,848.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,484.05	3/4	3,827.43	3/4	4,170.88	3/4	4,513.44	3/4	4,855.31	3/4		3/4		3/4		3/4		3/4	
2	3,491.20	2	3,834.59	2	4,178.03	2	4,520.56	2	4,862.44	2		2		2		2		2	
1/4	3,498.35	1/4	3,841.74	1/4	4,185.19	1/4	4,527.68	1/4	4,869.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,505.51	1/2	3,848.90	1/2	4,192.34	1/2	4,534.81	1/2	4,876.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,512.66	3/4	3,856.05	3/4	4,199.50	3/4	4,541.93	3/4	4,883.80	3/4		3/4		3/4		3/4		3/4	
3	3,519.81	3	3,863.21	3	4,206.65	3	4,549.05	3	4,890.93	3		3		3		3		3	
1/4	3,526.97	1/4	3,870.36	1/4	4,213.81	1/4	4,556.17	1/4	4,898.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,534.12	1/2	3,877.52	1/2	4,220.96	1/2	4,563.29	1/2	4,905.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,541.27	3/4	3,884.67	3/4	4,228.12	3/4	4,570.42	3/4	4,912.16	3/4		3/4		3/4		3/4		3/4	
4	3,548.42	4	3,891.83	4	4,235.27	4	4,577.54	4	4,919.23	4		4		4		4		4	
1/4	3,555.58	1/4	3,898.98	1/4	4,242.43	1/4	4,584.66	1/4	4,926.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.73	1/2	3,906.14	1/2	4,249.58	1/2	4,591.78	1/2	4,933.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.88	3/4	3,913.29	3/4	4,256.74	3/4	4,598.91	3/4	4,940.46	3/4		3/4		3/4		3/4		3/4	
5	3,577.04	5	3,920.45	5	4,263.89	5	4,606.03	5	4,947.54	5		5		5		5		5	
1/4	3,584.19	1/4	3,927.60	1/4	4,271.05	1/4	4,613.15	1/4	4,954.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,591.34	1/2	3,934.76	1/2	4,278.20	1/2	4,620.27	1/2	4,961.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.50	3/4	3,941.91	3/4	4,285.36	3/4	4,627.40	3/4	4,968.77	3/4		3/4		3/4		3/4		3/4	
6	3,605.65	6	3,949.07	6	4,292.51	6	4,634.52	6	4,975.84	6		6		6		6		6	
1/4	3,612.80	1/4	3,956.22	1/4	4,299.67	1/4	4,641.64	1/4	4,982.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.95	1/2	3,963.38	1/2	4,306.82	1/2	4,648.76	1/2	4,989.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,627.11	3/4	3,970.53	3/4	4,313.98	3/4	4,655.89	3/4	4,997.03	3/4		3/4		3/4		3/4		3/4	
7	3,634.26	7	3,977.69	7	4,321.13	7	4,663.01	7	5,004.10	7		7		7		7		7	
1/4	3,641.41	1/4	3,984.84	1/4	4,328.26	1/4	4,670.13	1/4	5,011.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.57	1/2	3,992.00	1/2	4,335.38	1/2	4,677.25	1/2	5,018.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,655.72	3/4	3,999.15	3/4	4,342.50	3/4	4,684.38	3/4	5,025.12	3/4		3/4		3/4		3/4		3/4	
8	3,662.87	8	4,006.31	8	4,349.62	8	4,691.50	8	5,032.13	8		8		8		8		8	
1/4	3,670.03	1/4	4,013.46	1/4	4,356.75	1/4	4,698.62	1/4	5,038.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,677.18	1/2	4,020.62	1/2	4,363.87	1/2	4,705.74	1/2	5,044.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,684.33	3/4	4,027.77	3/4	4,370.99	3/4	4,712.87	3/4	5,050.68	3/4		3/4		3/4		3/4		3/4	
9	3,691.48	9	4,034.93	9	4,378.11	9	4,719.99	9	5,056.86	9		9		9		9		9	
1/4	3,698.64	1/4	4,042.08	1/4	4,385.23	1/4	4,727.11	1/4	5,061.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,705.79	1/2	4,049.24	1/2	4,392.36	1/2	4,734.23	1/2	5,066.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,712.95	3/4	4,056.39	3/4	4,399.48	3/4	4,741.35	3/4	5,071.83	3/4		3/4		3/4		3/4		3/4	
10	3,720.10	10	4,063.55	10	4,406.60	10	4,748.48	10	5,076.82	10		10		10		10		10	
1/4	3,727.26	1/4	4,070.70	1/4	4,413.72	1/4	4,755.60	1/4	5,080.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,734.41	1/2	4,077.86	1/2	4,420.85	1/2	4,762.72	1/2	5,084.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,741.57	3/4	4,085.01	3/4	4,427.97	3/4	4,769.84	3/4	5,088.22	3/4		3/4		3/4		3/4		3/4	
11	3,748.73	11	4,092.17	11	4,435.09	11	4,776.97	11	5,092.02	11		11		11		11		11	
1/4	3,755.88	1/4	4,099.32	1/4	4,442.21	1/4	4,784.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,763.04	1/2	4,106.48	1/2	4,449.34	1/2	4,791.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,770.19	3/4	4,113.64	3/4	4,456.46	3/4	4,798.33	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 3 PORT INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.64	0	342.63	0	684.58	0	1,016.88	0	1,354.11	0	1,695.95	0	2,037.79	0	2,379.64	0	2,721.45	0	3,063.42
1/4	19.09	1/4	349.76	1/4	691.70	1/4	1,023.69	1/4	1,361.23	1/4	1,703.07	1/4	2,044.92	1/4	2,386.76	1/4	2,728.57	1/4	3,070.53
1/2	23.55	1/2	356.90	1/2	698.83	1/2	1,030.50	1/2	1,368.35	1/2	1,710.20	1/2	2,052.04	1/2	2,393.88	1/2	2,735.69	1/2	3,077.65
3/4	28.01	3/4	364.03	3/4	705.95	3/4	1,037.31	3/4	1,375.48	3/4	1,717.32	3/4	2,059.16	3/4	2,401.00	3/4	2,742.81	3/4	3,084.77
1	32.47	1	371.17	1	713.07	1	1,044.13	1	1,382.60	1	1,724.44	1	2,066.28	1	2,408.12	1	2,749.93	1	3,091.88
1/4	38.71	1/4	378.29	1/4	720.19	1/4	1,050.94	1/4	1,389.72	1/4	1,731.56	1/4	2,073.40	1/4	2,415.24	1/4	2,757.05	1/4	3,099.00
1/2	44.95	1/2	385.41	1/2	727.32	1/2	1,057.75	1/2	1,396.84	1/2	1,738.68	1/2	2,080.52	1/2	2,422.37	1/2	2,764.17	1/2	3,106.12
3/4	51.20	3/4	392.54	3/4	734.44	3/4	1,064.56	3/4	1,403.96	3/4	1,745.80	3/4	2,087.65	3/4	2,429.49	3/4	2,771.29	3/4	3,113.23
2	57.44	2	399.66	2	741.56	2	1,071.38	2	1,411.08	2	1,752.93	2	2,094.77	2	2,436.61	2	2,778.41	2	3,120.35
1/4	64.54	1/4	406.78	1/4	748.69	1/4	1,078.20	1/4	1,418.21	1/4	1,760.05	1/4	2,101.89	1/4	2,443.73	1/4	2,785.53	1/4	3,127.45
1/2	71.63	1/2	413.91	1/2	755.81	1/2	1,085.02	1/2	1,425.33	1/2	1,767.17	1/2	2,109.01	1/2	2,450.85	1/2	2,792.65	1/2	3,134.55
3/4	78.73	3/4	421.03	3/4	762.93	3/4	1,091.84	3/4	1,432.45	3/4	1,774.29	3/4	2,116.13	3/4	2,457.97	3/4	2,799.77	3/4	3,141.65
3	85.83	3	428.15	3	770.06	3	1,098.66	3	1,439.57	3	1,781.41	3	2,123.25	3	2,465.10	3	2,806.89	3	3,148.75
1/4	92.95	1/4	435.27	1/4	777.18	1/4	1,105.55	1/4	1,446.69	1/4	1,788.53	1/4	2,130.38	1/4	2,472.22	1/4	2,814.01	1/4	3,155.85
1/2	100.08	1/2	442.40	1/2	784.30	1/2	1,112.44	1/2	1,453.82	1/2	1,795.66	1/2	2,137.50	1/2	2,479.34	1/2	2,821.14	1/2	3,162.95
3/4	107.20	3/4	449.52	3/4	791.42	3/4	1,119.33	3/4	1,460.94	3/4	1,802.78	3/4	2,144.62	3/4	2,486.46	3/4	2,828.26	3/4	3,170.05
4	114.33	4	456.64	4	798.55	4	1,126.22	4	1,468.06	4	1,809.90	4	2,151.74	4	2,493.58	4	2,835.38	4	3,177.15
1/4	121.46	1/4	463.77	1/4	805.64	1/4	1,133.34	1/4	1,475.18	1/4	1,817.02	1/4	2,158.86	1/4	2,500.70	1/4	2,842.50	1/4	3,184.25
1/2	128.59	1/2	470.89	1/2	812.73	1/2	1,140.46	1/2	1,482.30	1/2	1,824.14	1/2	2,165.98	1/2	2,507.82	1/2	2,849.62	1/2	3,191.34
3/4	135.73	3/4	478.01	3/4	819.82	3/4	1,147.58	3/4	1,489.42	3/4	1,831.27	3/4	2,173.11	3/4	2,514.95	3/4	2,856.74	3/4	3,198.44
5	142.86	5	485.14	5	826.11	5	1,154.70	5	1,496.55	5	1,838.39	5	2,180.23	5	2,522.07	5	2,863.86	5	3,205.54
1/4	149.99	1/4	492.26	1/4	832.93	1/4	1,161.83	1/4	1,503.67	1/4	1,845.51	1/4	2,187.35	1/4	2,529.19	1/4	2,870.98	1/4	3,212.64
1/2	157.13	1/2	499.38	1/2	839.75	1/2	1,168.95	1/2	1,510.79	1/2	1,852.63	1/2	2,194.47	1/2	2,536.31	1/2	2,878.10	1/2	3,219.74
3/4	164.26	3/4	506.50	3/4	846.57	3/4	1,176.07	3/4	1,517.91	3/4	1,859.75	3/4	2,201.59	3/4	2,543.43	3/4	2,885.22	3/4	3,226.84
6	171.40	6	513.63	6	853.39	6	1,183.19	6	1,525.03	6	1,866.87	6	2,208.72	6	2,550.55	6	2,892.34	6	3,233.94
1/4	178.53	1/4	520.75	1/4	860.20	1/4	1,190.31	1/4	1,532.15	1/4	1,874.00	1/4	2,215.84	1/4	2,557.67	1/4	2,899.46	1/4	3,241.04
1/2	185.67	1/2	527.87	1/2	867.02	1/2	1,197.43	1/2	1,539.28	1/2	1,881.12	1/2	2,222.96	1/2	2,564.79	1/2	2,906.58	1/2	3,248.14
3/4	192.80	3/4	535.00	3/4	873.83	3/4	1,204.56	3/4	1,546.40	3/4	1,888.24	3/4	2,230.08	3/4	2,571.91	3/4	2,913.70	3/4	3,255.24
7	199.94	7	542.12	7	880.64	7	1,211.68	7	1,553.52	7	1,895.36	7	2,237.20	7	2,579.03	7	2,920.83	7	3,262.34
1/4	207.07	1/4	549.24	1/4	887.45	1/4	1,218.80	1/4	1,560.64	1/4	1,902.48	1/4	2,244.32	1/4	2,586.15	1/4	2,927.96	1/4	3,269.44
1/2	214.21	1/2	556.37	1/2	894.26	1/2	1,225.92	1/2	1,567.76	1/2	1,909.60	1/2	2,251.45	1/2	2,593.27	1/2	2,935.09	1/2	3,276.54
3/4	221.34	3/4	563.49	3/4	901.07	3/4	1,233.04	3/4	1,574.88	3/4	1,916.73	3/4	2,258.57	3/4	2,600.39	3/4	2,942.22	3/4	3,283.64
8	228.48	8	570.61	8	907.89	8	1,240.16	8	1,582.01	8	1,923.85	8	2,265.69	8	2,607.51	8	2,949.36	8	3,290.74
1/4	235.61	1/4	577.73	1/4	914.70	1/4	1,247.29	1/4	1,589.13	1/4	1,930.97	1/4	2,272.81	1/4	2,614.64	1/4	2,956.49	1/4	3,297.84
1/2	242.74	1/2	584.86	1/2	921.51	1/2	1,254.41	1/2	1,596.25	1/2	1,938.09	1/2	2,279.93	1/2	2,621.76	1/2	2,963.62	1/2	3,304.94
3/4	249.88	3/4	591.98	3/4	928.32	3/4	1,261.53	3/4	1,603.37	3/4	1,945.21	3/4	2,287.05	3/4	2,628.88	3/4	2,970.75	3/4	3,312.04
9	257.01	9	599.10	9	935.13	9	1,268.65	9	1,610.49	9	1,952.33	9	2,294.18	9	2,636.00	9	2,977.89	9	3,319.15
1/4	264.15	1/4	606.23	1/4	941.95	1/4	1,275.77	1/4	1,617.61	1/4	1,959.46	1/4	2,301.30	1/4	2,643.12	1/4	2,985.02	1/4	3,326.25
1/2	271.28	1/2	613.35	1/2	948.76	1/2	1,282.89	1/2	1,624.74	1/2	1,966.58	1/2	2,308.42	1/2	2,650.24	1/2	2,992.15	1/2	3,333.35
3/4	278.42	3/4	620.47	3/4	955.57	3/4	1,290.02	3/4	1,631.86	3/4	1,973.70	3/4	2,315.54	3/4	2,657.36	3/4	2,999.29	3/4	3,340.45
10	285.55	10	627.60	10	962.38	10	1,297.14	10	1,638.98	10	1,980.82	10	2,322.66	10	2,664.48	10	3,006.42	10	3,347.55
1/4	292.69	1/4	634.72	1/4	969.19	1/4	1,304.26	1/4	1,646.10	1/4	1,987.94	1/4	2,329.78	1/4	2,671.60	1/4	3,013.55	1/4	3,354.65
1/2	299.82	1/2	641.84	1/2	976.01	1/2	1,311.38	1/2	1,653.22	1/2	1,995.06	1/2	2,336.91	1/2	2,678.72	1/2	3,020.68	1/2	3,361.75
3/4	306.96	3/4	648.96	3/4	982.82	3/4	1,318.50	3/4	1,660.34	3/4	2,002.19	3/4	2,344.03	3/4	2,685.84	3/4	3,027.82	3/4	3,368.85
11	314.09	11	656.09	11	989.63	11	1,325.62	11	1,667.47	11	2,009.31	11	2,351.15	11	2,692.96	11	3,034.95	11	3,375.95
1/4	321.23	1/4	663.21	1/4	996.44	1/4	1,332.75	1/4	1,674.59	1/4	2,016.43	1/4	2,358.27	1/4	2,700.08	1/4	3,042.07	1/4	3,383.05
1/2	328.36	1/2	670.33	1/2	1,003.25	1/2	1,339.87	1/2	1,681.71	1/2	2,023.55	1/2	2,365.39	1/2	2,707.20	1/2	3,049.18	1/2	3,390.15
3/4	335.49	3/4	677.46	3/4	1,010.07	3/4	1,346.99	3/4	1,688.83	3/4	2,030.67	3/4	2,372.51	3/4	2,714.32	3/4	3,056.30	3/4	3,397.25

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MPX 411"

## 3 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,382.26	0	3,591.57	0	3,801.45	0	4,010.96	0	4,219.92	0		0		0		0		0	
1/4	3,386.61	1/4	3,595.94	1/4	3,805.83	1/4	4,015.31	1/4	4,224.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,390.97	1/2	3,600.31	1/2	3,810.20	1/2	4,019.66	1/2	4,228.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,395.33	3/4	3,604.69	3/4	3,814.57	3/4	4,024.02	3/4	4,232.98	3/4		3/4		3/4		3/4		3/4	
1	3,399.68	1	3,609.06	1	3,818.94	1	4,028.37	1	4,237.33	1		1		1		1		1	
1/4	3,404.04	1/4	3,613.43	1/4	3,823.32	1/4	4,032.72	1/4	4,241.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,408.40	1/2	3,617.81	1/2	3,827.69	1/2	4,037.08	1/2	4,246.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,412.75	3/4	3,622.18	3/4	3,832.06	3/4	4,041.43	3/4	4,250.39	3/4		3/4		3/4		3/4		3/4	
2	3,417.11	2	3,626.55	2	3,836.44	2	4,045.78	2	4,254.75	2		2		2		2		2	
1/4	3,421.47	1/4	3,630.92	1/4	3,840.81	1/4	4,050.14	1/4	4,259.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,425.82	1/2	3,635.30	1/2	3,845.18	1/2	4,054.49	1/2	4,263.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,430.18	3/4	3,639.67	3/4	3,849.55	3/4	4,058.84	3/4	4,267.81	3/4		3/4		3/4		3/4		3/4	
3	3,434.54	3	3,644.04	3	3,853.93	3	4,063.20	3	4,272.16	3		3		3		3		3	
1/4	3,438.89	1/4	3,648.41	1/4	3,858.30	1/4	4,067.55	1/4	4,276.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,443.25	1/2	3,652.79	1/2	3,862.67	1/2	4,071.90	1/2	4,280.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,447.61	3/4	3,657.16	3/4	3,867.04	3/4	4,076.26	3/4	4,285.14	3/4		3/4		3/4		3/4		3/4	
4	3,451.96	4	3,661.53	4	3,871.42	4	4,080.61	4	4,289.46	4		4		4		4		4	
1/4	3,456.32	1/4	3,665.90	1/4	3,875.79	1/4	4,084.96	1/4	4,293.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,460.68	1/2	3,670.28	1/2	3,880.16	1/2	4,089.32	1/2	4,298.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,465.03	3/4	3,674.65	3/4	3,884.53	3/4	4,093.67	3/4	4,302.44	3/4		3/4		3/4		3/4		3/4	
5	3,469.39	5	3,679.02	5	3,888.91	5	4,098.02	5	4,306.76	5		5		5		5		5	
1/4	3,473.75	1/4	3,683.39	1/4	3,893.28	1/4	4,102.38	1/4	4,311.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,478.10	1/2	3,687.77	1/2	3,897.65	1/2	4,106.73	1/2	4,315.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,482.46	3/4	3,692.14	3/4	3,902.02	3/4	4,111.08	3/4	4,319.73	3/4		3/4		3/4		3/4		3/4	
6	3,486.82	6	3,696.51	6	3,906.40	6	4,115.44	6	4,324.06	6		6		6		6		6	
1/4	3,491.17	1/4	3,700.88	1/4	3,910.77	1/4	4,119.79	1/4	4,328.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.53	1/2	3,705.26	1/2	3,915.14	1/2	4,124.14	1/2	4,332.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,499.89	3/4	3,709.63	3/4	3,919.51	3/4	4,128.50	3/4	4,336.99	3/4		3/4		3/4		3/4		3/4	
7	3,504.24	7	3,714.00	7	3,923.89	7	4,132.85	7	4,341.30	7		7		7		7		7	
1/4	3,508.60	1/4	3,718.37	1/4	3,928.24	1/4	4,137.20	1/4	4,345.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.96	1/2	3,722.75	1/2	3,932.59	1/2	4,141.56	1/2	4,349.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,517.31	3/4	3,727.12	3/4	3,936.95	3/4	4,145.91	3/4	4,354.07	3/4		3/4		3/4		3/4		3/4	
8	3,521.67	8	3,731.49	8	3,941.30	8	4,150.26	8	4,358.33	8		8		8		8		8	
1/4	3,526.03	1/4	3,735.87	1/4	3,945.65	1/4	4,154.62	1/4	4,361.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,530.38	1/2	3,740.24	1/2	3,950.01	1/2	4,158.97	1/2	4,365.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.74	3/4	3,744.61	3/4	3,954.36	3/4	4,163.32	3/4	4,368.63	3/4		3/4		3/4		3/4		3/4	
9	3,539.10	9	3,748.98	9	3,958.71	9	4,167.68	9	4,372.07	9		9		9		9		9	
1/4	3,543.47	1/4	3,753.36	1/4	3,963.07	1/4	4,172.03	1/4	4,374.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,547.84	1/2	3,757.73	1/2	3,967.42	1/2	4,176.38	1/2	4,376.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,552.22	3/4	3,762.10	3/4	3,971.77	3/4	4,180.74	3/4	4,378.80	3/4		3/4		3/4		3/4		3/4	
10	3,556.59	10	3,766.47	10	3,976.13	10	4,185.09	10	4,381.05	10		10		10		10		10	
1/4	3,560.96	1/4	3,770.85	1/4	3,980.48	1/4	4,189.44	1/4	4,382.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.33	1/2	3,775.22	1/2	3,984.83	1/2	4,193.80	1/2	4,384.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.71	3/4	3,779.59	3/4	3,989.19	3/4	4,198.15	3/4	4,386.17	3/4		3/4		3/4		3/4		3/4	
11	3,574.08	11	3,783.96	11	3,993.54	11	4,202.50	11	4,387.88	11		11		11		11		11	
1/4	3,578.45	1/4	3,788.34	1/4	3,997.90	1/4	4,206.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,582.82	1/2	3,792.71	1/2	4,002.25	1/2	4,211.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,587.20	3/4	3,797.08	3/4	4,006.60	3/4	4,215.57	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 3 STBD INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.61	0	342.10	0	684.04	0	1,025.62	0	1,367.42	0	1,709.37	0	2,051.31	0	2,393.25	0	2,734.93	0	3,076.01
1/4	19.06	1/4	349.23	1/4	691.16	1/4	1,032.73	1/4	1,374.55	1/4	1,716.49	1/4	2,058.43	1/4	2,400.37	1/4	2,742.04	1/4	3,083.11
1/2	23.52	1/2	356.35	1/2	698.29	1/2	1,039.84	1/2	1,381.67	1/2	1,723.61	1/2	2,065.56	1/2	2,407.50	1/2	2,749.15	1/2	3,090.22
3/4	27.97	3/4	363.47	3/4	705.41	3/4	1,046.95	3/4	1,388.80	3/4	1,730.74	3/4	2,072.68	3/4	2,414.62	3/4	2,756.25	3/4	3,097.33
1	32.42	1	370.60	1	712.54	1	1,054.06	1	1,395.92	1	1,737.86	1	2,079.80	1	2,421.75	1	2,763.36	1	3,104.43
1/4	38.65	1/4	377.72	1/4	719.66	1/4	1,061.16	1/4	1,403.04	1/4	1,744.99	1/4	2,086.93	1/4	2,428.87	1/4	2,770.46	1/4	3,111.54
1/2	44.88	1/2	384.85	1/2	726.78	1/2	1,068.27	1/2	1,410.17	1/2	1,752.11	1/2	2,094.05	1/2	2,435.99	1/2	2,777.57	1/2	3,118.64
3/4	51.12	3/4	391.97	3/4	733.91	3/4	1,075.38	3/4	1,417.29	3/4	1,759.23	3/4	2,101.18	3/4	2,443.12	3/4	2,784.67	3/4	3,125.75
2	57.35	2	399.09	2	741.03	2	1,082.49	2	1,424.41	2	1,766.36	2	2,108.30	2	2,450.24	2	2,791.78	2	3,132.85
1/4	64.44	1/4	406.22	1/4	748.15	1/4	1,089.61	1/4	1,431.54	1/4	1,773.48	1/4	2,115.42	1/4	2,457.37	1/4	2,798.89	1/4	3,139.94
1/2	71.52	1/2	413.34	1/2	755.28	1/2	1,096.73	1/2	1,438.66	1/2	1,780.60	1/2	2,122.55	1/2	2,464.49	1/2	2,805.99	1/2	3,147.03
3/4	78.61	3/4	420.46	3/4	762.40	3/4	1,103.85	3/4	1,445.79	3/4	1,787.73	3/4	2,129.67	3/4	2,471.61	3/4	2,813.10	3/4	3,154.12
3	85.70	3	427.59	3	769.53	3	1,110.97	3	1,452.91	3	1,794.85	3	2,136.79	3	2,478.74	3	2,820.20	3	3,161.21
1/4	92.81	1/4	434.71	1/4	776.65	1/4	1,118.09	1/4	1,460.03	1/4	1,801.98	1/4	2,143.92	1/4	2,485.86	1/4	2,827.31	1/4	3,168.30
1/2	99.92	1/2	441.84	1/2	783.77	1/2	1,125.21	1/2	1,467.16	1/2	1,809.10	1/2	2,151.04	1/2	2,492.98	1/2	2,834.41	1/2	3,175.38
3/4	107.04	3/4	448.96	3/4	790.90	3/4	1,132.34	3/4	1,474.28	3/4	1,816.22	3/4	2,158.17	3/4	2,500.11	3/4	2,841.52	3/4	3,182.47
4	114.15	4	456.08	4	798.02	4	1,139.46	4	1,481.40	4	1,823.35	4	2,165.29	4	2,507.23	4	2,848.63	4	3,189.56
1/4	121.27	1/4	463.21	1/4	805.14	1/4	1,146.59	1/4	1,488.53	1/4	1,830.47	1/4	2,172.41	1/4	2,514.36	1/4	2,855.73	1/4	3,196.65
1/2	128.40	1/2	470.33	1/2	812.27	1/2	1,153.71	1/2	1,495.65	1/2	1,837.59	1/2	2,179.54	1/2	2,521.48	1/2	2,862.84	1/2	3,203.74
3/4	135.52	3/4	477.45	3/4	819.39	3/4	1,160.83	3/4	1,502.78	3/4	1,844.72	3/4	2,186.66	3/4	2,528.61	3/4	2,869.94	3/4	3,210.82
5	142.64	5	484.58	5	826.52	5	1,167.96	5	1,509.90	5	1,851.84	5	2,193.78	5	2,535.73	5	2,877.05	5	3,217.91
1/4	149.76	1/4	491.70	1/4	833.63	1/4	1,175.08	1/4	1,517.02	1/4	1,858.97	1/4	2,200.91	1/4	2,542.86	1/4	2,884.15	1/4	3,225.00
1/2	156.89	1/2	498.82	1/2	840.75	1/2	1,182.21	1/2	1,524.15	1/2	1,866.09	1/2	2,208.03	1/2	2,549.99	1/2	2,891.26	1/2	3,232.09
3/4	164.01	3/4	505.95	3/4	847.87	3/4	1,189.33	3/4	1,531.27	3/4	1,873.21	3/4	2,215.16	3/4	2,557.11	3/4	2,898.37	3/4	3,239.18
6	171.13	6	513.07	6	854.98	6	1,196.45	6	1,538.40	6	1,880.34	6	2,222.28	6	2,564.24	6	2,905.47	6	3,246.27
1/4	178.26	1/4	520.20	1/4	862.09	1/4	1,203.58	1/4	1,545.52	1/4	1,887.46	1/4	2,229.40	1/4	2,571.36	1/4	2,912.58	1/4	3,253.35
1/2	185.38	1/2	527.32	1/2	869.20	1/2	1,210.70	1/2	1,552.64	1/2	1,894.59	1/2	2,236.53	1/2	2,578.49	1/2	2,919.68	1/2	3,260.44
3/4	192.51	3/4	534.44	3/4	876.31	3/4	1,217.82	3/4	1,559.77	3/4	1,901.71	3/4	2,243.65	3/4	2,585.61	3/4	2,926.79	3/4	3,267.53
7	199.63	7	541.57	7	883.42	7	1,224.95	7	1,566.89	7	1,908.83	7	2,250.78	7	2,592.74	7	2,933.89	7	3,274.62
1/4	206.75	1/4	548.69	1/4	890.53	1/4	1,232.07	1/4	1,574.01	1/4	1,915.96	1/4	2,257.90	1/4	2,599.87	1/4	2,941.00	1/4	3,281.71
1/2	213.88	1/2	555.81	1/2	897.64	1/2	1,239.20	1/2	1,581.14	1/2	1,923.08	1/2	2,265.02	1/2	2,606.99	1/2	2,948.11	1/2	3,288.80
3/4	221.00	3/4	562.94	3/4	904.75	3/4	1,246.32	3/4	1,588.26	3/4	1,930.20	3/4	2,272.15	3/4	2,614.12	3/4	2,955.21	3/4	3,295.88
8	228.12	8	570.06	8	911.86	8	1,253.44	8	1,595.39	8	1,937.33	8	2,279.27	8	2,621.24	8	2,962.32	8	3,302.97
1/4	235.25	1/4	577.19	1/4	918.97	1/4	1,260.57	1/4	1,602.51	1/4	1,944.45	1/4	2,286.39	1/4	2,628.35	1/4	2,969.42	1/4	3,310.06
1/2	242.37	1/2	584.31	1/2	926.08	1/2	1,267.69	1/2	1,609.63	1/2	1,951.58	1/2	2,293.52	1/2	2,635.45	1/2	2,976.53	1/2	3,317.15
3/4	249.50	3/4	591.43	3/4	933.19	3/4	1,274.81	3/4	1,616.76	3/4	1,958.70	3/4	2,300.64	3/4	2,642.56	3/4	2,983.63	3/4	3,324.24
9	256.62	9	598.56	9	940.30	9	1,281.94	9	1,623.88	9	1,965.82	9	2,307.77	9	2,649.67	9	2,990.74	9	3,331.33
1/4	263.74	1/4	605.68	1/4	947.41	1/4	1,289.06	1/4	1,631.00	1/4	1,972.95	1/4	2,314.89	1/4	2,656.77	1/4	2,997.85	1/4	3,338.41
1/2	270.87	1/2	612.80	1/2	954.52	1/2	1,296.19	1/2	1,638.13	1/2	1,980.07	1/2	2,322.01	1/2	2,663.88	1/2	3,004.95	1/2	3,345.50
3/4	277.99	3/4	619.93	3/4	961.63	3/4	1,303.31	3/4	1,645.25	3/4	1,987.19	3/4	2,329.14	3/4	2,670.98	3/4	3,012.06	3/4	3,352.59
10	285.11	10	627.05	10	968.74	10	1,310.43	10	1,652.38	10	1,994.32	10	2,336.26	10	2,678.09	10	3,019.16	10	3,359.68
1/4	292.24	1/4	634.18	1/4	975.85	1/4	1,317.56	1/4	1,659.50	1/4	2,001.44	1/4	2,343.38	1/4	2,685.19	1/4	3,026.27	1/4	3,366.01
1/2	299.36	1/2	641.30	1/2	982.96	1/2	1,324.68	1/2	1,666.62	1/2	2,008.57	1/2	2,350.51	1/2	2,692.30	1/2	3,033.37	1/2	3,368.35
3/4	306.49	3/4	648.42	3/4	990.07	3/4	1,331.80	3/4	1,673.75	3/4	2,015.69	3/4	2,357.63	3/4	2,699.41	3/4	3,040.48	3/4	3,372.68
11	313.61	11	655.55	11	997.18	11	1,338.93	11	1,680.87	11	2,022.81	11	2,364.76	11	2,706.51	11	3,047.59	11	3,377.01
1/4	320.73	1/4	662.67	1/4	1,004.29	1/4	1,346.05	1/4	1,687.99	1/4	2,029.94	1/4	2,371.88	1/4	2,713.62	1/4	3,054.69	1/4	3,381.35
1/2	327.86	1/2	669.79	1/2	1,011.40	1/2	1,353.18	1/2	1,695.12	1/2	2,037.06	1/2	2,379.00	1/2	2,720.72	1/2	3,061.80	1/2	3,385.68
3/4	334.98	3/4	676.92	3/4	1,018.51	3/4	1,360.30	3/4	1,702.24	3/4	2,044.18	3/4	2,386.13	3/4	2,727.83	3/4	3,068.90	3/4	3,390.01

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MPX 411"

## 3 STBD

### INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,394.35	0	3,604.06	0	3,813.77	0	4,023.10	0	4,231.90	0		0		0		0		0	
1/4	3,398.72	1/4	3,608.43	1/4	3,818.14	1/4	4,027.45	1/4	4,236.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,403.08	1/2	3,612.80	1/2	3,822.51	1/2	4,031.80	1/2	4,240.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,407.45	3/4	3,617.17	3/4	3,826.88	3/4	4,036.15	3/4	4,244.95	3/4		3/4		3/4		3/4		3/4	
1	3,411.82	1	3,621.53	1	3,831.25	1	4,040.50	1	4,249.30	1		1		1		1		1	
1/4	3,416.19	1/4	3,625.90	1/4	3,835.62	1/4	4,044.85	1/4	4,253.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,420.56	1/2	3,630.27	1/2	3,839.98	1/2	4,049.20	1/2	4,257.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,424.93	3/4	3,634.64	3/4	3,844.35	3/4	4,053.55	3/4	4,262.34	3/4		3/4		3/4		3/4		3/4	
2	3,429.30	2	3,639.01	2	3,848.72	2	4,057.90	2	4,266.69	2		2		2		2		2	
1/4	3,433.67	1/4	3,643.38	1/4	3,853.09	1/4	4,062.25	1/4	4,271.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.04	1/2	3,647.75	1/2	3,857.46	1/2	4,066.60	1/2	4,275.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,442.41	3/4	3,652.12	3/4	3,861.83	3/4	4,070.95	3/4	4,279.74	3/4		3/4		3/4		3/4		3/4	
3	3,446.77	3	3,656.49	3	3,866.20	3	4,075.30	3	4,284.09	3		3		3		3		3	
1/4	3,451.14	1/4	3,660.86	1/4	3,870.57	1/4	4,079.65	1/4	4,288.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,455.51	1/2	3,665.22	1/2	3,874.94	1/2	4,084.00	1/2	4,292.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,459.88	3/4	3,669.59	3/4	3,879.31	3/4	4,088.35	3/4	4,297.06	3/4		3/4		3/4		3/4		3/4	
4	3,464.25	4	3,673.96	4	3,883.67	4	4,092.70	4	4,301.38	4		4		4		4		4	
1/4	3,468.62	1/4	3,678.33	1/4	3,888.04	1/4	4,097.05	1/4	4,305.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,472.99	1/2	3,682.70	1/2	3,892.41	1/2	4,101.40	1/2	4,310.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,477.36	3/4	3,687.07	3/4	3,896.78	3/4	4,105.75	3/4	4,314.35	3/4		3/4		3/4		3/4		3/4	
5	3,481.73	5	3,691.44	5	3,901.15	5	4,110.10	5	4,318.67	5		5		5		5		5	
1/4	3,486.10	1/4	3,695.81	1/4	3,905.52	1/4	4,114.45	1/4	4,322.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,490.46	1/2	3,700.18	1/2	3,909.89	1/2	4,118.80	1/2	4,327.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,494.83	3/4	3,704.55	3/4	3,914.26	3/4	4,123.15	3/4	4,331.63	3/4		3/4		3/4		3/4		3/4	
6	3,499.20	6	3,708.91	6	3,918.63	6	4,127.50	6	4,335.95	6		6		6		6		6	
1/4	3,503.57	1/4	3,713.28	1/4	3,923.00	1/4	4,131.85	1/4	4,340.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,507.94	1/2	3,717.65	1/2	3,927.36	1/2	4,136.20	1/2	4,344.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,512.31	3/4	3,722.02	3/4	3,931.73	3/4	4,140.55	3/4	4,348.87	3/4		3/4		3/4		3/4		3/4	
7	3,516.68	7	3,726.39	7	3,936.10	7	4,144.90	7	4,353.18	7		7		7		7		7	
1/4	3,521.05	1/4	3,730.76	1/4	3,940.45	1/4	4,149.25	1/4	4,357.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,525.42	1/2	3,735.13	1/2	3,944.80	1/2	4,153.60	1/2	4,361.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,529.79	3/4	3,739.50	3/4	3,949.15	3/4	4,157.95	3/4	4,365.94	3/4		3/4		3/4		3/4		3/4	
8	3,534.15	8	3,743.87	8	3,953.50	8	4,162.30	8	4,370.20	8		8		8		8		8	
1/4	3,538.52	1/4	3,748.24	1/4	3,957.85	1/4	4,166.65	1/4	4,373.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.89	1/2	3,752.60	1/2	3,962.20	1/2	4,171.00	1/2	4,377.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,547.26	3/4	3,756.97	3/4	3,966.55	3/4	4,175.35	3/4	4,380.49	3/4		3/4		3/4		3/4		3/4	
9	3,551.63	9	3,761.34	9	3,970.90	9	4,179.70	9	4,383.93	9		9		9		9		9	
1/4	3,556.00	1/4	3,765.71	1/4	3,975.25	1/4	4,184.05	1/4	4,386.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.37	1/2	3,770.08	1/2	3,979.60	1/2	4,188.40	1/2	4,388.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.74	3/4	3,774.45	3/4	3,983.95	3/4	4,192.75	3/4	4,390.66	3/4		3/4		3/4		3/4		3/4	
10	3,569.11	10	3,778.82	10	3,988.30	10	4,197.10	10	4,392.90	10		10		10		10		10	
1/4	3,573.48	1/4	3,783.19	1/4	3,992.65	1/4	4,201.45	1/4	4,394.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,577.84	1/2	3,787.56	1/2	3,997.00	1/2	4,205.80	1/2	4,396.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,582.21	3/4	3,791.93	3/4	4,001.35	3/4	4,210.15	3/4	4,398.02	3/4		3/4		3/4		3/4		3/4	
11	3,586.58	11	3,796.29	11	4,005.70	11	4,214.50	11	4,399.73	11		11		11		11		11	
1/4	3,590.95	1/4	3,800.66	1/4	4,010.05	1/4	4,218.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,595.32	1/2	3,805.03	1/2	4,014.40	1/2	4,223.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,599.69	3/4	3,809.40	3/4	4,018.75	3/4	4,227.55	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

ULLAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

December 17, 2020

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

<http://www.pmacorp.net>



# BARGE "MPX 411"

## 1 PORT ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,856.79	0	4,515.64	0	4,173.91	0	3,830.97	0	3,488.07	0	3,145.23	0	2,802.33	0	2,459.38
1/4		1/4		1/4	4,849.73	1/4	4,508.53	1/4	4,166.77	1/4	3,823.83	1/4	3,480.93	1/4	3,138.08	1/4	2,795.18	1/4	2,452.24
1/2		1/2		1/2	4,842.66	1/2	4,501.42	1/2	4,159.62	1/2	3,816.68	1/2	3,473.79	1/2	3,130.94	1/2	2,788.04	1/2	2,445.09
3/4		3/4		3/4	4,835.59	3/4	4,494.31	3/4	4,152.48	3/4	3,809.54	3/4	3,466.64	3/4	3,123.80	3/4	2,780.90	3/4	2,437.95
1		1		1	4,828.52	1	4,487.20	1	4,145.34	1	3,802.39	1	3,459.50	1	3,116.66	1	2,773.75	1	2,430.80
1/4		1/4		1/4	4,821.46	1/4	4,480.09	1/4	4,138.19	1/4	3,795.25	1/4	3,452.36	1/4	3,109.51	1/4	2,766.61	1/4	2,423.66
1/2		1/2		1/2	4,814.34	1/2	4,472.97	1/2	4,131.05	1/2	3,788.11	1/2	3,445.21	1/2	3,102.37	1/2	2,759.46	1/2	2,416.51
3/4		3/4		3/4	4,807.23	3/4	4,465.86	3/4	4,123.90	3/4	3,780.96	3/4	3,438.07	3/4	3,095.23	3/4	2,752.32	3/4	2,409.37
2		2		2	4,800.12	2	4,458.75	2	4,116.76	2	3,773.82	2	3,430.93	2	3,088.08	2	2,745.17	2	2,402.22
1/4		1/4		1/4	4,793.01	1/4	4,451.64	1/4	4,109.61	1/4	3,766.67	1/4	3,423.79	1/4	3,080.94	1/4	2,738.03	1/4	2,395.08
1/2		1/2		1/2	4,785.90	1/2	4,444.53	1/2	4,102.47	1/2	3,759.53	1/2	3,416.64	1/2	3,073.80	1/2	2,730.88	1/2	2,387.93
3/4		3/4		3/4	4,778.79	3/4	4,437.41	3/4	4,095.32	3/4	3,752.38	3/4	3,409.50	3/4	3,066.66	3/4	2,723.74	3/4	2,380.79
3		3		3	4,771.67	3	4,430.30	3	4,088.18	3	3,745.24	3	3,402.36	3	3,059.51	3	2,716.60	3	2,373.64
1/4		1/4		1/4	4,764.56	1/4	4,423.19	1/4	4,081.03	1/4	3,738.09	1/4	3,395.22	1/4	3,052.37	1/4	2,709.45	1/4	2,366.50
1/2		1/2		1/2	4,757.45	1/2	4,416.08	1/2	4,073.89	1/2	3,730.95	1/2	3,388.07	1/2	3,045.23	1/2	2,702.31	1/2	2,359.35
3/4		3/4		3/4	4,750.34	3/4	4,408.97	3/4	4,066.74	3/4	3,723.80	3/4	3,380.93	3/4	3,038.09	3/4	2,695.16	3/4	2,352.21
4		4		4	4,743.23	4	4,401.85	4	4,059.60	4	3,716.66	4	3,373.79	4	3,030.94	4	2,688.02	4	2,345.06
1/4		1/4		1/4	4,736.11	1/4	4,394.74	1/4	4,052.46	1/4	3,709.51	1/4	3,366.65	1/4	3,023.80	1/4	2,680.87	1/4	2,337.92
1/2		1/2		1/2	4,729.00	1/2	4,387.63	1/2	4,045.31	1/2	3,702.37	1/2	3,359.50	1/2	3,016.66	1/2	2,673.73	1/2	2,330.77
3/4		3/4		3/4	4,721.89	3/4	4,380.52	3/4	4,038.17	3/4	3,695.23	3/4	3,352.36	3/4	3,009.52	3/4	2,666.58	3/4	2,323.63
5		5		5	4,714.78	5	4,373.41	5	4,031.02	5	3,688.08	5	3,345.22	5	3,002.37	5	2,659.44	5	2,316.48
1/4		1/4	5,022.26	1/4	4,707.67	1/4	4,366.29	1/4	4,023.88	1/4	3,680.94	1/4	3,338.08	1/4	2,995.23	1/4	2,652.29	1/4	2,309.34
1/2		1/2	5,018.47	1/2	4,700.55	1/2	4,359.18	1/2	4,016.73	1/2	3,673.79	1/2	3,330.93	1/2	2,988.09	1/2	2,645.15	1/2	2,302.19
3/4		3/4	5,014.68	3/4	4,693.44	3/4	4,352.07	3/4	4,009.59	3/4	3,666.65	3/4	3,323.79	3/4	2,980.94	3/4	2,638.01	3/4	2,295.05
6		6	5,010.88	6	4,686.33	6	4,344.96	6	4,002.44	6	3,659.50	6	3,316.65	6	2,973.80	6	2,630.86	6	2,287.90
1/4		1/4	5,007.09	1/4	4,679.22	1/4	4,337.85	1/4	3,995.30	1/4	3,652.36	1/4	3,309.51	1/4	2,966.65	1/4	2,623.72	1/4	2,280.76
1/2		1/2	5,002.11	1/2	4,672.11	1/2	4,330.74	1/2	3,988.15	1/2	3,645.21	1/2	3,302.36	1/2	2,959.51	1/2	2,616.57	1/2	2,273.61
3/4		3/4	4,997.13	3/4	4,664.99	3/4	4,323.62	3/4	3,981.01	3/4	3,638.07	3/4	3,295.22	3/4	2,952.36	3/4	2,609.43	3/4	2,266.47
7		7	4,992.14	7	4,657.88	7	4,316.51	7	3,973.87	7	3,630.92	7	3,288.08	7	2,945.22	7	2,602.28	7	2,259.32
1/4		1/4	4,987.16	1/4	4,650.77	1/4	4,309.40	1/4	3,966.72	1/4	3,623.78	1/4	3,280.93	1/4	2,938.07	1/4	2,595.14	1/4	2,252.18
1/2		1/2	4,980.99	1/2	4,643.66	1/2	4,302.29	1/2	3,959.58	1/2	3,616.64	1/2	3,273.79	1/2	2,930.93	1/2	2,587.99	1/2	2,245.03
3/4		3/4	4,974.81	3/4	4,636.55	3/4	4,295.18	3/4	3,952.43	3/4	3,609.49	3/4	3,266.65	3/4	2,923.79	3/4	2,580.85	3/4	2,237.89
8		8	4,968.64	8	4,629.44	8	4,288.06	8	3,945.29	8	3,602.35	8	3,259.51	8	2,916.64	8	2,573.70	8	2,230.74
1/4		1/4	4,962.46	1/4	4,622.32	1/4	4,280.95	1/4	3,938.14	1/4	3,595.21	1/4	3,252.36	1/4	2,909.50	1/4	2,566.56	1/4	2,223.60
1/2		1/2	4,955.47	1/2	4,615.21	1/2	4,273.84	1/2	3,931.00	1/2	3,588.07	1/2	3,245.22	1/2	2,902.35	1/2	2,559.41	1/2	2,216.45
3/4		3/4	4,948.47	3/4	4,608.10	3/4	4,266.73	3/4	3,923.85	3/4	3,580.92	3/4	3,238.08	3/4	2,895.21	3/4	2,552.27	3/4	2,209.31
9		9	4,941.47	9	4,600.99	9	4,259.62	9	3,916.71	9	3,573.78	9	3,230.94	9	2,888.06	9	2,545.12	9	2,202.16
1/4		1/4	4,934.47	1/4	4,593.88	1/4	4,252.50	1/4	3,909.56	1/4	3,566.64	1/4	3,223.79	1/4	2,880.92	1/4	2,537.98	1/4	2,195.02
1/2		1/2	4,927.42	1/2	4,586.76	1/2	4,245.36	1/2	3,902.42	1/2	3,559.50	1/2	3,216.65	1/2	2,873.77	1/2	2,530.83	1/2	2,187.87
3/4		3/4	4,920.37	3/4	4,579.65	3/4	4,238.22	3/4	3,895.27	3/4	3,552.35	3/4	3,209.51	3/4	2,866.63	3/4	2,523.69	3/4	2,180.73
10		10	4,913.31	10	4,572.54	10	4,231.07	10	3,888.13	10	3,545.21	10	3,202.37	10	2,859.49	10	2,516.54	10	2,173.58
1/4		1/4	4,906.26	1/4	4,565.43	1/4	4,223.93	1/4	3,880.99	1/4	3,538.07	1/4	3,195.22	1/4	2,852.34	1/4	2,509.40	1/4	2,166.44
1/2		1/2	4,899.19	1/2	4,558.32	1/2	4,216.78	1/2	3,873.84	1/2	3,530.93	1/2	3,188.08	1/2	2,845.20	1/2	2,502.25	1/2	2,159.29
3/4		3/4	4,892.13	3/4	4,551.20	3/4	4,209.64	3/4	3,866.70	3/4	3,523.78	3/4	3,180.94	3/4	2,838.05	3/4	2,495.11	3/4	2,152.15
11		11	4,885.06	11	4,544.09	11	4,202.49	11	3,859.55	11	3,516.64	11	3,173.80	11	2,830.91	11	2,487.96	11	2,145.00
1/4		1/4	4,877.99	1/4	4,536.98	1/4	4,195.35	1/4	3,852.41	1/4	3,509.50	1/4	3,166.65	1/4	2,823.76	1/4	2,480.82	1/4	2,137.86
1/2		1/2	4,870.93	1/2	4,529.87	1/2	4,188.20	1/2	3,845.26	1/2	3,502.36	1/2	3,159.51	1/2	2,816.62	1/2	2,473.67	1/2	2,130.71
3/4		3/4	4,863.86	3/4	4,522.76	3/4	4,181.06	3/4	3,838.12	3/4	3,495.21	3/4	3,152.37	3/4	2,809.47	3/4	2,466.53	3/4	2,123.57

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "MPX 411"

## 1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-04 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,116.42	0	1,773.46	0	1,430.50	0	1,087.54	0	747.18	0	405.60	0	97.71	0		0		0	
1/4	2,109.28	1/4	1,766.32	1/4	1,423.36	1/4	1,080.40	1/4	740.06	1/4	398.66	1/4	91.78	1/4	1/4	1/4		1/4	
1/2	2,102.13	1/2	1,759.17	1/2	1,416.21	1/2	1,073.29	1/2	732.92	1/2	391.81	1/2	85.94	1/2	1/2	1/2		1/2	
3/4	2,094.99	3/4	1,752.03	3/4	1,409.07	3/4	1,066.18	3/4	725.77	3/4	384.96	3/4	80.10	3/4	3/4	3/4		3/4	
1	2,087.84	1	1,744.88	1	1,401.92	1	1,059.06	1	718.63	1	378.10	1	74.26	1	1	1		1	
1/4	2,080.70	1/4	1,737.74	1/4	1,394.78	1/4	1,051.95	1/4	711.49	1/4	371.25	1/4	68.42	1/4	1/4	1/4		1/4	
1/2	2,073.55	1/2	1,730.59	1/2	1,387.63	1/2	1,044.86	1/2	704.34	1/2	364.48	1/2	62.69	1/2	1/2	1/2		1/2	
3/4	2,066.41	3/4	1,723.45	3/4	1,380.49	3/4	1,037.77	3/4	697.20	3/4	357.71	3/4	56.96	3/4	3/4	3/4		3/4	
2	2,059.26	2	1,716.30	2	1,373.34	2	1,030.67	2	690.05	2	350.94	2	51.22	2	2	2		2	
1/4	2,052.12	1/4	1,709.16	1/4	1,366.20	1/4	1,023.58	1/4	682.91	1/4	344.17	1/4	45.49	1/4	1/4	1/4		1/4	
1/2	2,044.97	1/2	1,702.01	1/2	1,359.05	1/2	1,016.50	1/2	675.76	1/2	337.49	1/2	40.70	1/2	1/2	1/2		1/2	
3/4	2,037.83	3/4	1,694.87	3/4	1,351.91	3/4	1,009.41	3/4	668.62	3/4	330.80	3/4	35.92	3/4	3/4	3/4		3/4	
3	2,030.68	3	1,687.72	3	1,344.76	3	1,002.33	3	661.47	3	324.12	3	31.13	3	3	3		3	
1/4	2,023.54	1/4	1,680.58	1/4	1,337.62	1/4	995.24	1/4	654.33	1/4	317.43	1/4	26.34	1/4	1/4	1/4		1/4	
1/2	2,016.39	1/2	1,673.43	1/2	1,330.47	1/2	988.16	1/2	647.18	1/2	310.83	1/2	23.42	1/2	1/2	1/2		1/2	
3/4	2,009.25	3/4	1,666.29	3/4	1,323.33	3/4	981.07	3/4	640.04	3/4	304.23	3/4	20.49	3/4	3/4	3/4		3/4	
4	2,002.10	4	1,659.14	4	1,316.18	4	973.99	4	632.89	4	297.62	4	17.57	4	4	4		4	
1/4	1,994.96	1/4	1,652.00	1/4	1,309.04	1/4	966.91	1/4	625.75	1/4	291.02	1/4	14.66	1/4	1/4	1/4		1/4	
1/2	1,987.81	1/2	1,644.85	1/2	1,301.89	1/2	959.82	1/2	618.60	1/2	284.50	1/2		1/2	1/2	1/2		1/2	
3/4	1,980.67	3/4	1,637.71	3/4	1,294.75	3/4	952.74	3/4	611.46	3/4	277.98	3/4		3/4	3/4	3/4		3/4	
5	1,973.52	5	1,630.56	5	1,287.60	5	945.65	5	604.31	5	271.47	5		5	5	5		5	
1/4	1,966.38	1/4	1,623.42	1/4	1,280.46	1/4	938.57	1/4	597.17	1/4	264.95	1/4		1/4	1/4	1/4		1/4	
1/2	1,959.23	1/2	1,616.27	1/2	1,273.31	1/2	931.48	1/2	590.03	1/2	258.51	1/2		1/2	1/2	1/2		1/2	
3/4	1,952.09	3/4	1,609.13	3/4	1,266.17	3/4	924.40	3/4	582.88	3/4	252.08	3/4		3/4	3/4	3/4		3/4	
6	1,944.94	6	1,601.98	6	1,259.02	6	917.31	6	575.74	6	245.64	6		6	6	6		6	
1/4	1,937.80	1/4	1,594.84	1/4	1,251.88	1/4	910.23	1/4	568.59	1/4	239.21	1/4		1/4	1/4	1/4		1/4	
1/2	1,930.65	1/2	1,587.69	1/2	1,244.73	1/2	903.15	1/2	561.45	1/2	232.85	1/2		1/2	1/2	1/2		1/2	
3/4	1,923.51	3/4	1,580.55	3/4	1,237.59	3/4	896.06	3/4	554.30	3/4	226.50	3/4		3/4	3/4	3/4		3/4	
7	1,916.36	7	1,573.40	7	1,230.44	7	888.98	7	547.16	7	220.15	7		7	7	7		7	
1/4	1,909.22	1/4	1,566.26	1/4	1,223.30	1/4	881.89	1/4	540.01	1/4	213.80	1/4		1/4	1/4	1/4		1/4	
1/2	1,902.07	1/2	1,559.11	1/2	1,216.15	1/2	874.81	1/2	532.87	1/2	207.53	1/2		1/2	1/2	1/2		1/2	
3/4	1,894.93	3/4	1,551.97	3/4	1,209.01	3/4	867.72	3/4	525.72	3/4	201.26	3/4		3/4	3/4	3/4		3/4	
8	1,887.78	8	1,544.82	8	1,201.86	8	860.64	8	518.58	8	194.99	8		8	8	8		8	
1/4	1,880.64	1/4	1,537.68	1/4	1,194.72	1/4	853.55	1/4	511.43	1/4	188.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,873.49	1/2	1,530.53	1/2	1,187.57	1/2	846.47	1/2	504.29	1/2	182.54	1/2		1/2	1/2	1/2		1/2	
3/4	1,866.35	3/4	1,523.39	3/4	1,180.43	3/4	839.39	3/4	497.14	3/4	176.36	3/4		3/4	3/4	3/4		3/4	
9	1,859.20	9	1,516.24	9	1,173.28	9	832.30	9	490.00	9	170.17	9		9	9	9		9	
1/4	1,852.06	1/4	1,509.10	1/4	1,166.14	1/4	825.22	1/4	482.85	1/4	163.99	1/4		1/4	1/4	1/4		1/4	
1/2	1,844.91	1/2	1,501.95	1/2	1,158.99	1/2	818.13	1/2	475.76	1/2	157.89	1/2		1/2	1/2	1/2		1/2	
3/4	1,837.77	3/4	1,494.81	3/4	1,151.85	3/4	811.05	3/4	468.66	3/4	151.78	3/4		3/4	3/4	3/4		3/4	
10	1,830.62	10	1,487.66	10	1,144.70	10	803.96	10	461.56	10	145.68	10		10	10	10		10	
1/4	1,823.48	1/4	1,480.52	1/4	1,137.56	1/4	796.88	1/4	454.46	1/4	139.58	1/4		1/4	1/4	1/4		1/4	
1/2	1,816.33	1/2	1,473.37	1/2	1,130.41	1/2	789.79	1/2	447.45	1/2	133.56	1/2		1/2	1/2	1/2		1/2	
3/4	1,809.19	3/4	1,466.23	3/4	1,123.27	3/4	782.69	3/4	440.43	3/4	127.55	3/4		3/4	3/4	3/4		3/4	
11	1,802.04	11	1,459.08	11	1,116.12	11	775.60	11	433.42	11	121.53	11		11	11	11		11	
1/4	1,794.90	1/4	1,451.94	1/4	1,108.98	1/4	768.51	1/4	426.41	1/4	115.51	1/4		1/4	1/4	1/4		1/4	
1/2	1,787.75	1/2	1,444.79	1/2	1,101.83	1/2	761.40	1/2	419.47	1/2	109.58	1/2		1/2	1/2	1/2		1/2	
3/4	1,780.61	3/4	1,437.65	3/4	1,094.69	3/4	754.29	3/4	412.53	3/4	103.64	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020







# BARGE "MPX 411"

**1 STBD**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,117.33	0	1,774.60	0	1,431.87	0	1,089.14	0	746.70	0	405.28	0	97.63	0		0		0	
1/4	2,110.19	1/4	1,767.46	1/4	1,424.73	1/4	1,082.00	1/4	739.56	1/4	398.35	1/4	91.70	1/4	1/4	1/4		1/4	
1/2	2,103.05	1/2	1,760.32	1/2	1,417.59	1/2	1,074.86	1/2	732.42	1/2	391.50	1/2	85.87	1/2	1/2	1/2		1/2	
3/4	2,095.91	3/4	1,753.18	3/4	1,410.45	3/4	1,067.72	3/4	725.28	3/4	384.65	3/4	80.03	3/4	3/4	3/4		3/4	
1	2,088.77	1	1,746.04	1	1,403.31	1	1,060.58	1	718.14	1	377.81	1	74.20	1	1	1		1	
1/4	2,081.63	1/4	1,738.90	1/4	1,396.17	1/4	1,053.44	1/4	711.00	1/4	370.96	1/4	68.36	1/4	1/4	1/4		1/4	
1/2	2,074.49	1/2	1,731.76	1/2	1,389.03	1/2	1,046.30	1/2	703.86	1/2	364.19	1/2	62.64	1/2	1/2	1/2		1/2	
3/4	2,067.35	3/4	1,724.62	3/4	1,381.89	3/4	1,039.16	3/4	696.72	3/4	357.43	3/4	56.91	3/4	3/4	3/4		3/4	
2	2,060.21	2	1,717.48	2	1,374.75	2	1,032.02	2	689.58	2	350.67	2	51.18	2	2	2		2	
1/4	2,053.07	1/4	1,710.34	1/4	1,367.61	1/4	1,024.88	1/4	682.44	1/4	343.90	1/4	45.46	1/4	1/4	1/4		1/4	
1/2	2,045.93	1/2	1,703.20	1/2	1,360.47	1/2	1,017.75	1/2	675.30	1/2	337.22	1/2	40.67	1/2	1/2	1/2		1/2	
3/4	2,038.79	3/4	1,696.06	3/4	1,353.33	3/4	1,010.62	3/4	668.16	3/4	330.54	3/4	35.89	3/4	3/4	3/4		3/4	
3	2,031.65	3	1,688.92	3	1,346.19	3	1,003.49	3	661.02	3	323.86	3	31.10	3	3	3		3	
1/4	2,024.51	1/4	1,681.78	1/4	1,339.05	1/4	996.36	1/4	653.88	1/4	317.18	1/4	26.32	1/4	1/4	1/4		1/4	
1/2	2,017.37	1/2	1,674.64	1/2	1,331.91	1/2	989.23	1/2	646.74	1/2	310.58	1/2	23.40	1/2	1/2	1/2		1/2	
3/4	2,010.23	3/4	1,667.50	3/4	1,324.77	3/4	982.09	3/4	639.60	3/4	303.98	3/4	20.48	3/4	3/4	3/4		3/4	
4	2,003.09	4	1,660.36	4	1,317.63	4	974.96	4	632.46	4	297.39	4	17.56	4	4	4		4	
1/4	1,995.95	1/4	1,653.22	1/4	1,310.49	1/4	967.83	1/4	625.32	1/4	290.79	1/4	14.65	1/4	1/4	1/4		1/4	
1/2	1,988.81	1/2	1,646.08	1/2	1,303.35	1/2	960.70	1/2	618.18	1/2	284.28	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.67	3/4	1,638.94	3/4	1,296.21	3/4	953.57	3/4	611.04	3/4	277.76	3/4		3/4	3/4	3/4		3/4	
5	1,974.53	5	1,631.80	5	1,289.07	5	946.44	5	603.90	5	271.25	5		5	5	5		5	
1/4	1,967.39	1/4	1,624.66	1/4	1,281.93	1/4	939.31	1/4	596.76	1/4	264.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,960.25	1/2	1,617.52	1/2	1,274.79	1/2	932.17	1/2	589.62	1/2	258.30	1/2		1/2	1/2	1/2		1/2	
3/4	1,953.11	3/4	1,610.38	3/4	1,267.65	3/4	925.04	3/4	582.48	3/4	251.87	3/4		3/4	3/4	3/4		3/4	
6	1,945.97	6	1,603.24	6	1,260.51	6	917.91	6	575.34	6	245.44	6		6	6	6		6	
1/4	1,938.83	1/4	1,596.10	1/4	1,253.37	1/4	910.78	1/4	568.20	1/4	239.01	1/4		1/4	1/4	1/4		1/4	
1/2	1,931.69	1/2	1,588.96	1/2	1,246.23	1/2	903.65	1/2	561.06	1/2	232.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,924.55	3/4	1,581.82	3/4	1,239.09	3/4	896.52	3/4	553.93	3/4	226.32	3/4		3/4	3/4	3/4		3/4	
7	1,917.41	7	1,574.68	7	1,231.95	7	889.39	7	546.79	7	219.97	7		7	7	7		7	
1/4	1,910.26	1/4	1,567.54	1/4	1,224.81	1/4	882.26	1/4	539.65	1/4	213.63	1/4		1/4	1/4	1/4		1/4	
1/2	1,903.12	1/2	1,560.40	1/2	1,217.67	1/2	875.12	1/2	532.51	1/2	207.36	1/2		1/2	1/2	1/2		1/2	
3/4	1,895.98	3/4	1,553.25	3/4	1,210.53	3/4	867.99	3/4	525.37	3/4	201.10	3/4		3/4	3/4	3/4		3/4	
8	1,888.84	8	1,546.11	8	1,203.39	8	860.86	8	518.23	8	194.84	8		8	8	8		8	
1/4	1,881.70	1/4	1,538.97	1/4	1,196.24	1/4	853.73	1/4	511.09	1/4	188.57	1/4		1/4	1/4	1/4		1/4	
1/2	1,874.56	1/2	1,531.83	1/2	1,189.10	1/2	846.60	1/2	503.95	1/2	182.39	1/2		1/2	1/2	1/2		1/2	
3/4	1,867.42	3/4	1,524.69	3/4	1,181.96	3/4	839.47	3/4	496.81	3/4	176.21	3/4		3/4	3/4	3/4		3/4	
9	1,860.28	9	1,517.55	9	1,174.82	9	832.34	9	489.67	9	170.03	9		9	9	9		9	
1/4	1,853.14	1/4	1,510.41	1/4	1,167.68	1/4	825.21	1/4	482.53	1/4	163.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,846.00	1/2	1,503.27	1/2	1,160.54	1/2	818.08	1/2	475.43	1/2	157.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,838.86	3/4	1,496.13	3/4	1,153.40	3/4	810.94	3/4	468.33	3/4	151.66	3/4		3/4	3/4	3/4		3/4	
10	1,831.72	10	1,488.99	10	1,146.26	10	803.81	10	461.23	10	145.56	10		10	10	10		10	
1/4	1,824.58	1/4	1,481.85	1/4	1,139.12	1/4	796.68	1/4	454.13	1/4	139.47	1/4		1/4	1/4	1/4		1/4	
1/2	1,817.44	1/2	1,474.71	1/2	1,131.98	1/2	789.54	1/2	447.12	1/2	133.45	1/2		1/2	1/2	1/2		1/2	
3/4	1,810.30	3/4	1,467.57	3/4	1,124.84	3/4	782.40	3/4	440.10	3/4	127.44	3/4		3/4	3/4	3/4		3/4	
11	1,803.16	11	1,460.43	11	1,117.70	11	775.26	11	433.09	11	121.43	11		11	11	11		11	
1/4	1,796.02	1/4	1,453.29	1/4	1,110.56	1/4	768.12	1/4	426.07	1/4	115.42	1/4		1/4	1/4	1/4		1/4	
1/2	1,788.88	1/2	1,446.15	1/2	1,103.42	1/2	760.98	1/2	419.14	1/2	109.49	1/2		1/2	1/2	1/2		1/2	
3/4	1,781.74	3/4	1,439.01	3/4	1,096.28	3/4	753.84	3/4	412.21	3/4	103.56	3/4		3/4	3/4	3/4		3/4	

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 2 PORT ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,931.78	0	4,589.92	0	4,247.46	0	3,903.72	0	3,559.98	0	3,216.24	0	2,872.45	0	2,528.61
1/4		1/4		1/4	4,924.70	1/4	4,582.79	1/4	4,240.29	1/4	3,896.56	1/4	3,552.82	1/4	3,209.08	1/4	2,865.29	1/4	2,521.44
1/2		1/2		1/2	4,917.62	1/2	4,575.67	1/2	4,233.13	1/2	3,889.40	1/2	3,545.66	1/2	3,201.92	1/2	2,858.12	1/2	2,514.28
3/4		3/4		3/4	4,910.53	3/4	4,568.54	3/4	4,225.97	3/4	3,882.23	3/4	3,538.50	3/4	3,194.76	3/4	2,850.96	3/4	2,507.12
1		1		1	4,903.45	1	4,561.41	1	4,218.81	1	3,875.07	1	3,531.34	1	3,187.60	1	2,843.80	1	2,499.95
1/4		1/4		1/4	4,896.36	1/4	4,554.28	1/4	4,211.65	1/4	3,867.91	1/4	3,524.17	1/4	3,180.44	1/4	2,836.63	1/4	2,492.79
1/2		1/2		1/2	4,889.28	1/2	4,547.15	1/2	4,204.49	1/2	3,860.75	1/2	3,517.01	1/2	3,173.28	1/2	2,829.47	1/2	2,485.63
3/4		3/4		3/4	4,882.19	3/4	4,540.02	3/4	4,197.33	3/4	3,853.59	3/4	3,509.85	3/4	3,166.11	3/4	2,822.31	3/4	2,478.46
2		2		2	4,875.07	2	4,532.89	2	4,190.17	2	3,846.43	2	3,502.69	2	3,158.95	2	2,815.14	2	2,471.30
1/4		1/4		1/4	4,867.94	1/4	4,525.76	1/4	4,183.01	1/4	3,839.27	1/4	3,495.53	1/4	3,151.79	1/4	2,807.98	1/4	2,464.14
1/2		1/2		1/2	4,860.81	1/2	4,518.64	1/2	4,175.84	1/2	3,832.11	1/2	3,488.37	1/2	3,144.63	1/2	2,800.82	1/2	2,456.97
3/4		3/4		3/4	4,853.68	3/4	4,511.51	3/4	4,168.68	3/4	3,824.95	3/4	3,481.21	3/4	3,137.47	3/4	2,793.65	3/4	2,449.81
3		3		3	4,846.55	3	4,504.38	3	4,161.52	3	3,817.78	3	3,474.05	3	3,130.31	3	2,786.49	3	2,442.65
1/4		1/4		1/4	4,839.42	1/4	4,497.25	1/4	4,154.36	1/4	3,810.62	1/4	3,466.89	1/4	3,123.15	1/4	2,779.33	1/4	2,435.48
1/2		1/2		1/2	4,832.29	1/2	4,490.12	1/2	4,147.20	1/2	3,803.46	1/2	3,459.72	1/2	3,115.99	1/2	2,772.16	1/2	2,428.32
3/4		3/4		3/4	4,825.17	3/4	4,482.99	3/4	4,140.04	3/4	3,796.30	3/4	3,452.56	3/4	3,108.83	3/4	2,765.00	3/4	2,421.16
4		4		4	4,818.04	4	4,475.86	4	4,132.88	4	3,789.14	4	3,445.40	4	3,101.66	4	2,757.84	4	2,413.99
1/4		1/4		1/4	4,810.91	1/4	4,468.74	1/4	4,125.72	1/4	3,781.98	1/4	3,438.24	1/4	3,094.50	1/4	2,750.67	1/4	2,406.83
1/2		1/2		1/2	4,803.78	1/2	4,461.61	1/2	4,118.55	1/2	3,774.82	1/2	3,431.08	1/2	3,087.34	1/2	2,743.51	1/2	2,399.67
3/4		3/4		3/4	4,796.65	3/4	4,454.48	3/4	4,111.39	3/4	3,767.66	3/4	3,423.92	3/4	3,080.18	3/4	2,736.35	3/4	2,392.50
5		5		5	4,789.52	5	4,447.35	5	4,104.23	5	3,760.49	5	3,416.76	5	3,073.02	5	2,729.18	5	2,385.34
1/4		1/4		1/4	4,782.39	1/4	4,440.22	1/4	4,097.07	1/4	3,753.33	1/4	3,409.60	1/4	3,065.86	1/4	2,722.02	1/4	2,378.18
1/2		1/2		1/2	4,775.27	1/2	4,433.09	1/2	4,089.91	1/2	3,746.17	1/2	3,402.43	1/2	3,058.70	1/2	2,714.86	1/2	2,371.01
3/4		3/4		3/4	5,083.46	3/4	4,768.14	3/4	4,425.96	3/4	4,082.75	3/4	3,739.01	3/4	3,395.27	3/4	3,051.54	3/4	2,707.69
6		6		6	5,079.66	6	4,761.01	6	4,418.84	6	4,075.59	6	3,731.85	6	3,388.11	6	3,044.37	6	2,700.53
1/4		1/4		1/4	5,075.86	1/4	4,753.88	1/4	4,411.71	1/4	4,068.43	1/4	3,724.69	1/4	3,380.95	1/4	3,037.21	1/4	2,693.37
1/2		1/2		1/2	5,072.06	1/2	4,746.75	1/2	4,404.58	1/2	4,061.26	1/2	3,717.53	1/2	3,373.79	1/2	3,030.05	1/2	2,686.20
3/4		3/4		3/4	5,068.26	3/4	4,739.62	3/4	4,397.45	3/4	4,054.10	3/4	3,710.37	3/4	3,366.63	3/4	3,022.88	3/4	2,679.04
7		7		7	5,063.26	7	4,732.49	7	4,390.32	7	4,046.94	7	3,703.20	7	3,359.47	7	3,015.72	7	2,671.88
1/4		1/4		1/4	5,058.27	1/4	4,725.37	1/4	4,383.19	1/4	4,039.78	1/4	3,696.04	1/4	3,352.31	1/4	3,008.56	1/4	2,664.71
1/2		1/2		1/2	5,053.27	1/2	4,718.24	1/2	4,376.06	1/2	4,032.62	1/2	3,688.88	1/2	3,345.14	1/2	3,001.39	1/2	2,657.55
3/4		3/4		3/4	5,048.28	3/4	4,711.11	3/4	4,368.94	3/4	4,025.46	3/4	3,681.72	3/4	3,337.98	3/4	2,994.23	3/4	2,650.34
8		8		8	5,042.09	8	4,703.98	8	4,361.81	8	4,018.30	8	3,674.56	8	3,330.82	8	2,987.07	8	2,643.22
1/4		1/4		1/4	5,035.90	1/4	4,696.85	1/4	4,354.68	1/4	4,011.14	1/4	3,667.40	1/4	3,323.66	1/4	2,979.90	1/4	2,636.06
1/2		1/2		1/2	5,029.72	1/2	4,689.72	1/2	4,347.55	1/2	4,003.98	1/2	3,660.24	1/2	3,316.50	1/2	2,972.74	1/2	2,628.90
3/4		3/4		3/4	5,023.53	3/4	4,682.59	3/4	4,340.42	3/4	3,996.81	3/4	3,653.08	3/4	3,309.34	3/4	2,965.57	3/4	2,621.73
9		9		9	5,016.51	9	4,675.47	9	4,333.29	9	3,989.65	9	3,645.92	9	3,302.18	9	2,958.41	9	2,614.57
1/4		1/4		1/4	5,009.50	1/4	4,668.34	1/4	4,326.16	1/4	3,982.49	1/4	3,638.75	1/4	3,295.02	1/4	2,951.25	1/4	2,607.40
1/2		1/2		1/2	5,002.48	1/2	4,661.21	1/2	4,319.04	1/2	3,975.33	1/2	3,631.59	1/2	3,287.86	1/2	2,944.08	1/2	2,600.24
3/4		3/4		3/4	4,995.47	3/4	4,654.08	3/4	4,311.91	3/4	3,968.17	3/4	3,624.43	3/4	3,280.69	3/4	2,936.92	3/4	2,593.08
10		10		10	4,988.40	10	4,646.95	10	4,304.75	10	3,961.01	10	3,617.27	10	3,273.53	10	2,929.76	10	2,585.91
1/4		1/4		1/4	4,981.33	1/4	4,639.82	1/4	4,297.58	1/4	3,953.85	1/4	3,610.11	1/4	3,266.37	1/4	2,922.59	1/4	2,578.75
1/2		1/2		1/2	4,974.26	1/2	4,632.69	1/2	4,290.42	1/2	3,946.69	1/2	3,602.95	1/2	3,259.21	1/2	2,915.43	1/2	2,571.59
3/4		3/4		3/4	4,967.19	3/4	4,625.57	3/4	4,283.26	3/4	3,939.52	3/4	3,595.79	3/4	3,252.05	3/4	2,908.27	3/4	2,564.42
11		11		11	4,960.11	11	4,618.44	11	4,276.10	11	3,932.36	11	3,588.63	11	3,244.89	11	2,901.10	11	2,557.26
1/4		1/4		1/4	4,953.03	1/4	4,611.31	1/4	4,268.94	1/4	3,925.20	1/4	3,581.46	1/4	3,237.73	1/4	2,893.94	1/4	2,550.10
1/2		1/2		1/2	4,945.95	1/2	4,604.18	1/2	4,261.78	1/2	3,918.04	1/2	3,574.30	1/2	3,230.57	1/2	2,886.78	1/2	2,542.93
3/4		3/4		3/4	4,938.87	3/4	4,597.05	3/4	4,254.62	3/4	3,910.88	3/4	3,567.14	3/4	3,223.40	3/4	2,879.61	3/4	2,535.77

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "MPX 411"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,184.76	0	1,840.92	0	1,497.08	0	1,153.23	0	823.07	0	480.09	0	136.26	0		0			
1/4	2,177.60	1/4	1,833.76	1/4	1,489.91	1/4	1,146.07	1/4	816.19	1/4	472.93	1/4	129.10	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,170.44	1/2	1,826.59	1/2	1,482.75	1/2	1,138.91	1/2	809.31	1/2	465.76	1/2	121.94	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,163.27	3/4	1,819.43	3/4	1,475.59	3/4	1,131.74	3/4	802.43	3/4	458.60	3/4	114.78	3/4	3/4	3/4	3/4	3/4	3/4
1	2,156.11	1	1,812.27	1	1,468.42	1	1,124.86	1	795.27	1	451.44	1	107.62	1	1	1	1	1	1
1/4	2,148.95	1/4	1,805.10	1/4	1,461.26	1/4	1,117.98	1/4	788.10	1/4	444.27	1/4	100.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,141.78	1/2	1,797.94	1/2	1,454.10	1/2	1,111.10	1/2	780.94	1/2	437.11	1/2	93.32	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,134.62	3/4	1,790.78	3/4	1,446.93	3/4	1,104.22	3/4	773.78	3/4	429.95	3/4	86.17	3/4	3/4	3/4	3/4	3/4	3/4
2	2,127.46	2	1,783.61	2	1,439.77	2	1,097.36	2	766.61	2	422.78	2	79.04	2	2	2	2	2	2
1/4	2,120.29	1/4	1,776.45	1/4	1,432.61	1/4	1,090.49	1/4	759.45	1/4	415.62	1/4	71.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,113.13	1/2	1,769.29	1/2	1,425.44	1/2	1,083.63	1/2	752.29	1/2	408.46	1/2	64.79	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,105.97	3/4	1,762.12	3/4	1,418.28	3/4	1,076.77	3/4	745.12	3/4	401.30	3/4	57.66	3/4	3/4	3/4	3/4	3/4	3/4
3	2,098.80	3	1,754.96	3	1,411.12	3	1,069.91	3	737.96	3	394.13	3	51.39	3	3	3	3	3	3
1/4	2,091.64	1/4	1,747.80	1/4	1,403.95	1/4	1,063.06	1/4	730.80	1/4	386.97	1/4	45.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,084.48	1/2	1,740.63	1/2	1,396.79	1/2	1,056.20	1/2	723.64	1/2	379.81	1/2	38.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,077.31	3/4	1,733.47	3/4	1,389.63	3/4	1,049.35	3/4	716.47	3/4	372.64	3/4	32.59	3/4	3/4	3/4	3/4	3/4	3/4
4	2,070.15	4	1,726.31	4	1,382.46	4	1,042.49	4	709.31	4	365.48	4	28.12	4	4	4	4	4	4
1/4	2,062.99	1/4	1,719.14	1/4	1,375.30	1/4	1,035.64	1/4	702.15	1/4	358.32	1/4	23.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,055.82	1/2	1,711.98	1/2	1,368.14	1/2	1,028.78	1/2	694.98	1/2	351.15	1/2	19.16	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,048.66	3/4	1,704.82	3/4	1,360.97	3/4	1,021.93	3/4	687.82	3/4	343.99	3/4	14.69	3/4	3/4	3/4	3/4	3/4	3/4
5	2,041.50	5	1,697.65	5	1,353.81	5	1,015.07	5	680.66	5	336.83	5		5	5	5	5	5	5
1/4	2,034.33	1/4	1,690.49	1/4	1,346.65	1/4	1,008.22	1/4	673.49	1/4	329.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,027.17	1/2	1,683.33	1/2	1,339.48	1/2	1,001.36	1/2	666.33	1/2	322.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,020.01	3/4	1,676.16	3/4	1,332.32	3/4	994.50	3/4	659.17	3/4	315.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,012.84	6	1,669.00	6	1,325.16	6	987.65	6	652.00	6	308.18	6		6	6	6	6	6	6
1/4	2,005.68	1/4	1,661.84	1/4	1,317.99	1/4	980.79	1/4	644.84	1/4	301.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.52	1/2	1,654.67	1/2	1,310.83	1/2	973.94	1/2	637.68	1/2	293.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,991.35	3/4	1,647.51	3/4	1,303.67	3/4	967.08	3/4	630.51	3/4	286.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,984.19	7	1,640.35	7	1,296.50	7	960.23	7	623.35	7	279.52	7		7	7	7	7	7	7
1/4	1,977.03	1/4	1,633.18	1/4	1,289.34	1/4	953.37	1/4	616.19	1/4	272.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,969.86	1/2	1,626.02	1/2	1,282.18	1/2	946.52	1/2	609.03	1/2	265.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,962.70	3/4	1,618.86	3/4	1,275.01	3/4	939.66	3/4	601.86	3/4	258.03	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,955.54	8	1,611.69	8	1,267.85	8	932.81	8	594.70	8	250.87	8		8	8	8	8	8	8
1/4	1,948.37	1/4	1,604.53	1/4	1,260.69	1/4	925.95	1/4	587.54	1/4	243.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.21	1/2	1,597.37	1/2	1,253.52	1/2	919.10	1/2	580.37	1/2	236.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,934.05	3/4	1,590.20	3/4	1,246.36	3/4	912.24	3/4	573.21	3/4	229.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,926.88	9	1,583.04	9	1,239.20	9	905.39	9	566.05	9	222.22	9		9	9	9	9	9	9
1/4	1,919.72	1/4	1,575.88	1/4	1,232.03	1/4	898.53	1/4	558.88	1/4	215.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,912.56	1/2	1,568.71	1/2	1,224.87	1/2	891.68	1/2	551.72	1/2	207.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,905.39	3/4	1,561.55	3/4	1,217.71	3/4	884.82	3/4	544.56	3/4	200.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,898.23	10	1,554.39	10	1,210.54	10	877.97	10	537.39	10	193.57	10		10	10	10	10	10	10
1/4	1,891.06	1/4	1,547.22	1/4	1,203.38	1/4	871.11	1/4	530.23	1/4	186.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,883.90	1/2	1,540.06	1/2	1,196.22	1/2	864.26	1/2	523.07	1/2	179.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,876.74	3/4	1,532.89	3/4	1,189.05	3/4	857.40	3/4	515.91	3/4	172.08	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,869.57	11	1,525.73	11	1,181.89	11	850.54	11	508.74	11	164.91	11		11	11	11	11	11	11
1/4	1,862.41	1/4	1,518.57	1/4	1,174.72	1/4	843.68	1/4	501.58	1/4	157.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,855.25	1/2	1,511.40	1/2	1,167.56	1/2	836.81	1/2	494.42	1/2	150.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,848.08	3/4	1,504.24	3/4	1,160.40	3/4	829.95	3/4	487.25	3/4	143.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



BARGE "MPX 411"

2 STBD
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-04 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Table with columns for height (0 FT. to 9 FT.) and depth (IN 0, 1/4, 1/2, 3/4). Contains capacity values in barrels of 42 U.S. gallons.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

Signature of Precision Measurement & Analysis, Inc.



# BARGE "MPX 411"

**2 STBD**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,181.95	0	1,838.50	0	1,495.06	0	1,151.61	0	808.67	0	465.24	0	121.81	0		0		0	
1/4	2,174.79	1/4	1,831.35	1/4	1,487.90	1/4	1,144.46	1/4	801.51	1/4	458.08	1/4	114.65	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,167.64	1/2	1,824.19	1/2	1,480.75	1/2	1,137.30	1/2	794.36	1/2	450.93	1/2	107.51	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,160.48	3/4	1,817.04	3/4	1,473.59	3/4	1,130.15	3/4	787.20	3/4	443.77	3/4	100.37	3/4	3/4	3/4	3/4	3/4	3/4
1	2,153.33	1	1,809.88	1	1,466.44	1	1,122.99	1	780.05	1	436.62	1	93.22	1	1	1	1	1	1
1/4	2,146.17	1/4	1,802.73	1/4	1,459.28	1/4	1,115.84	1/4	772.89	1/4	429.46	1/4	86.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,139.02	1/2	1,795.57	1/2	1,452.13	1/2	1,108.69	1/2	765.74	1/2	422.31	1/2	78.96	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,131.86	3/4	1,788.42	3/4	1,444.97	3/4	1,101.54	3/4	758.58	3/4	415.15	3/4	71.84	3/4	3/4	3/4	3/4	3/4	3/4
2	2,124.71	2	1,781.26	2	1,437.82	2	1,094.39	2	751.43	2	408.00	2	64.72	2	2	2	2	2	2
1/4	2,117.55	1/4	1,774.11	1/4	1,430.66	1/4	1,087.24	1/4	744.27	1/4	400.84	1/4	57.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,110.40	1/2	1,766.95	1/2	1,423.51	1/2	1,080.10	1/2	737.12	1/2	393.69	1/2	51.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,103.24	3/4	1,759.80	3/4	1,416.35	3/4	1,072.96	3/4	729.96	3/4	386.53	3/4	45.09	3/4	3/4	3/4	3/4	3/4	3/4
3	2,096.09	3	1,752.64	3	1,409.20	3	1,065.82	3	722.81	3	379.38	3	38.83	3	3	3	3	3	3
1/4	2,088.93	1/4	1,745.49	1/4	1,402.04	1/4	1,058.68	1/4	715.65	1/4	372.22	1/4	32.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,081.78	1/2	1,738.33	1/2	1,394.89	1/2	1,051.54	1/2	708.50	1/2	365.07	1/2	28.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,074.62	3/4	1,731.18	3/4	1,387.73	3/4	1,044.40	3/4	701.34	3/4	357.91	3/4	23.62	3/4	3/4	3/4	3/4	3/4	3/4
4	2,067.47	4	1,724.02	4	1,380.58	4	1,037.25	4	694.19	4	350.76	4	19.15	4	4	4	4	4	4
1/4	2,060.31	1/4	1,716.87	1/4	1,373.42	1/4	1,030.11	1/4	687.03	1/4	343.60	1/4	14.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,053.16	1/2	1,709.71	1/2	1,366.27	1/2	1,022.97	1/2	679.88	1/2	336.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,046.00	3/4	1,702.56	3/4	1,359.11	3/4	1,015.83	3/4	672.72	3/4	329.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,038.85	5	1,695.40	5	1,351.96	5	1,008.69	5	665.57	5	322.14	5	5	5	5	5	5	5	5
1/4	2,031.69	1/4	1,688.25	1/4	1,344.80	1/4	1,001.55	1/4	658.41	1/4	314.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,024.54	1/2	1,681.09	1/2	1,337.65	1/2	994.41	1/2	651.26	1/2	307.83	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,017.38	3/4	1,673.94	3/4	1,330.49	3/4	987.27	3/4	644.11	3/4	300.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,010.23	6	1,666.78	6	1,323.34	6	980.13	6	636.95	6	293.52	6	6	6	6	6	6	6	6
1/4	2,003.07	1/4	1,659.63	1/4	1,316.18	1/4	972.98	1/4	629.80	1/4	286.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,995.92	1/2	1,652.47	1/2	1,309.03	1/2	965.84	1/2	622.64	1/2	279.21	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,988.76	3/4	1,645.32	3/4	1,301.87	3/4	958.70	3/4	615.49	3/4	272.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,981.61	7	1,638.16	7	1,294.72	7	951.56	7	608.33	7	264.90	7	7	7	7	7	7	7	7
1/4	1,974.45	1/4	1,631.01	1/4	1,287.56	1/4	944.42	1/4	601.18	1/4	257.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,967.29	1/2	1,623.85	1/2	1,280.41	1/2	937.28	1/2	594.02	1/2	250.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,960.14	3/4	1,616.70	3/4	1,273.25	3/4	930.14	3/4	586.87	3/4	243.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,952.98	8	1,609.54	8	1,266.10	8	923.00	8	579.71	8	236.28	8	8	8	8	8	8	8	8
1/4	1,945.83	1/4	1,602.38	1/4	1,258.94	1/4	915.86	1/4	572.56	1/4	229.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,938.67	1/2	1,595.23	1/2	1,251.78	1/2	908.72	1/2	565.40	1/2	221.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,931.52	3/4	1,588.07	3/4	1,244.63	3/4	901.58	3/4	558.25	3/4	214.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,924.36	9	1,580.92	9	1,237.47	9	894.43	9	551.09	9	207.66	9	9	9	9	9	9	9	9
1/4	1,917.21	1/4	1,573.76	1/4	1,230.32	1/4	887.29	1/4	543.94	1/4	200.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,910.05	1/2	1,566.61	1/2	1,223.16	1/2	880.15	1/2	536.78	1/2	193.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,902.90	3/4	1,559.45	3/4	1,216.01	3/4	873.01	3/4	529.63	3/4	186.20	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,895.74	10	1,552.30	10	1,208.85	10	865.87	10	522.47	10	179.04	10	10	10	10	10	10	10	10
1/4	1,888.59	1/4	1,545.14	1/4	1,201.70	1/4	858.73	1/4	515.32	1/4	171.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,881.43	1/2	1,537.99	1/2	1,194.54	1/2	851.58	1/2	508.16	1/2	164.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,874.28	3/4	1,530.83	3/4	1,187.39	3/4	844.43	3/4	501.01	3/4	157.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,867.12	11	1,523.68	11	1,180.23	11	837.28	11	493.85	11	150.42	11	11	11	11	11	11	11	11
1/4	1,859.97	1/4	1,516.52	1/4	1,173.08	1/4	830.13	1/4	486.70	1/4	143.27	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,852.81	1/2	1,509.37	1/2	1,165.92	1/2	822.98	1/2	479.54	1/2	136.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,845.66	3/4	1,502.21	3/4	1,158.77	3/4	815.82	3/4	472.39	3/4	128.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



**BARGE "MPX 411"**

**3 PORT  
ULLAGE TABLE**

**HERMETIC  
GAUGE HEIGHT 16'-05"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Table with columns labeled from 0 FT. to 9 FT. and rows representing different fill heights from 0 to 3/4. Each cell contains a numerical capacity value.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL. CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK. CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE. GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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





# BARGE "MPX 411"

## 3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,180.23	0	1,838.39	0	1,496.55	0	1,154.70	0	826.11	0	485.14	0	142.86	0		0			
1/4	2,173.11	1/4	1,831.27	1/4	1,489.42	1/4	1,147.58	1/4	819.22	1/4	478.01	1/4	135.73	1/4	1/4				
1/2	2,165.99	1/2	1,824.14	1/2	1,482.30	1/2	1,140.46	1/2	812.33	1/2	470.89	1/2	128.59	1/2	1/2				
3/4	2,158.86	3/4	1,817.02	3/4	1,475.18	3/4	1,133.34	3/4	805.44	3/4	463.77	3/4	121.46	3/4	3/4				
1	2,151.74	1	1,809.90	1	1,468.06	1	1,126.22	1	798.55	1	456.64	1	114.33	1	1				
1/4	2,144.62	1/4	1,802.78	1/4	1,460.94	1/4	1,119.33	1/4	791.43	1/4	449.52	1/4	107.20	1/4	1/4				
1/2	2,137.50	1/2	1,795.66	1/2	1,453.82	1/2	1,112.44	1/2	784.30	1/2	442.40	1/2	100.08	1/2	1/2				
3/4	2,130.38	3/4	1,788.54	3/4	1,446.69	3/4	1,105.55	3/4	777.18	3/4	435.28	3/4	92.96	3/4	3/4				
2	2,123.26	2	1,781.41	2	1,439.57	2	1,098.66	2	770.06	2	428.15	2	85.83	2	2				
1/4	2,116.13	1/4	1,774.29	1/4	1,432.45	1/4	1,091.84	1/4	762.93	1/4	421.03	1/4	78.73	1/4	1/4				
1/2	2,109.01	1/2	1,767.17	1/2	1,425.33	1/2	1,085.02	1/2	755.81	1/2	413.91	1/2	71.63	1/2	1/2				
3/4	2,101.89	3/4	1,760.05	3/4	1,418.21	3/4	1,078.20	3/4	748.69	3/4	406.78	3/4	64.54	3/4	3/4				
3	2,094.77	3	1,752.93	3	1,411.09	3	1,071.38	3	741.56	3	399.66	3	57.44	3	3				
1/4	2,087.65	1/4	1,745.81	1/4	1,403.96	1/4	1,064.56	1/4	734.44	1/4	392.54	1/4	51.20	1/4	1/4				
1/2	2,080.53	1/2	1,738.68	1/2	1,396.84	1/2	1,057.75	1/2	727.32	1/2	385.41	1/2	44.96	1/2	1/2				
3/4	2,073.40	3/4	1,731.56	3/4	1,389.72	3/4	1,050.94	3/4	720.20	3/4	378.29	3/4	38.71	3/4	3/4				
4	2,066.28	4	1,724.44	4	1,382.60	4	1,044.13	4	713.07	4	371.17	4	32.47	4	4				
1/4	2,059.16	1/4	1,717.32	1/4	1,375.48	1/4	1,037.32	1/4	705.95	1/4	364.03	1/4	28.01	1/4	1/4				
1/2	2,052.04	1/2	1,710.20	1/2	1,368.36	1/2	1,030.50	1/2	698.83	1/2	356.90	1/2	23.55	1/2	1/2				
3/4	2,044.92	3/4	1,703.08	3/4	1,361.23	3/4	1,023.69	3/4	691.70	3/4	349.76	3/4	19.10	3/4	3/4				
5	2,037.80	5	1,695.95	5	1,354.11	5	1,016.88	5	684.58	5	342.63	5	14.64	5	5				
1/4	2,030.67	1/4	1,688.83	1/4	1,346.99	1/4	1,010.07	1/4	677.46	1/4	335.50	1/4		1/4	1/4				
1/2	2,023.55	1/2	1,681.71	1/2	1,339.87	1/2	1,003.26	1/2	670.33	1/2	328.36	1/2		1/2	1/2				
3/4	2,016.43	3/4	1,674.59	3/4	1,332.75	3/4	996.44	3/4	663.21	3/4	321.23	3/4		3/4	3/4				
6	2,009.31	6	1,667.47	6	1,325.63	6	989.63	6	656.09	6	314.09	6		6	6				
1/4	2,002.19	1/4	1,660.35	1/4	1,318.50	1/4	982.82	1/4	648.97	1/4	306.96	1/4		1/4	1/4				
1/2	1,995.07	1/2	1,653.22	1/2	1,311.38	1/2	976.01	1/2	641.84	1/2	299.82	1/2		1/2	1/2				
3/4	1,987.94	3/4	1,646.10	3/4	1,304.26	3/4	969.19	3/4	634.72	3/4	292.69	3/4		3/4	3/4				
7	1,980.82	7	1,638.98	7	1,297.14	7	962.38	7	627.60	7	285.55	7		7	7				
1/4	1,973.70	1/4	1,631.86	1/4	1,290.02	1/4	955.57	1/4	620.47	1/4	278.42	1/4		1/4	1/4				
1/2	1,966.58	1/2	1,624.74	1/2	1,282.90	1/2	948.76	1/2	613.35	1/2	271.28	1/2		1/2	1/2				
3/4	1,959.46	3/4	1,617.62	3/4	1,275.77	3/4	941.95	3/4	606.23	3/4	264.15	3/4		3/4	3/4				
8	1,952.34	8	1,610.49	8	1,268.65	8	935.13	8	599.10	8	257.01	8		8	8				
1/4	1,945.21	1/4	1,603.37	1/4	1,261.53	1/4	928.32	1/4	591.98	1/4	249.88	1/4		1/4	1/4				
1/2	1,938.09	1/2	1,596.25	1/2	1,254.41	1/2	921.51	1/2	584.86	1/2	242.75	1/2		1/2	1/2				
3/4	1,930.97	3/4	1,589.13	3/4	1,247.29	3/4	914.70	3/4	577.74	3/4	235.61	3/4		3/4	3/4				
9	1,923.85	9	1,582.01	9	1,240.17	9	907.89	9	570.61	9	228.48	9		9	9				
1/4	1,916.73	1/4	1,574.89	1/4	1,233.04	1/4	901.08	1/4	563.49	1/4	221.34	1/4		1/4	1/4				
1/2	1,909.60	1/2	1,567.76	1/2	1,225.92	1/2	894.26	1/2	556.37	1/2	214.21	1/2		1/2	1/2				
3/4	1,902.48	3/4	1,560.64	3/4	1,218.80	3/4	887.45	3/4	549.24	3/4	207.07	3/4		3/4	3/4				
10	1,895.36	10	1,553.52	10	1,211.68	10	880.64	10	542.12	10	199.94	10		10	10				
1/4	1,888.24	1/4	1,546.40	1/4	1,204.56	1/4	873.83	1/4	535.00	1/4	192.80	1/4		1/4	1/4				
1/2	1,881.12	1/2	1,539.28	1/2	1,197.44	1/2	867.02	1/2	527.87	1/2	185.67	1/2		1/2	1/2				
3/4	1,874.00	3/4	1,532.15	3/4	1,190.31	3/4	860.20	3/4	520.75	3/4	178.53	3/4		3/4	3/4				
11	1,866.87	11	1,525.03	11	1,183.19	11	853.39	11	513.63	11	171.40	11		11	11				
1/4	1,859.75	1/4	1,517.91	1/4	1,176.07	1/4	846.57	1/4	506.51	1/4	164.26	1/4		1/4	1/4				
1/2	1,852.63	1/2	1,510.79	1/2	1,168.95	1/2	839.75	1/2	499.38	1/2	157.13	1/2		1/2	1/2				
3/4	1,845.51	3/4	1,503.67	3/4	1,161.83	3/4	832.93	3/4	492.26	3/4	150.00	3/4		3/4	3/4				

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020







# BARGE "MPX 411"

## 3 STBD

### ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,186.66	0	1,844.72	0	1,502.78	0	1,160.83	0	819.39	0	477.45	0	135.52	0		0		0	
1/4	2,179.54	1/4	1,837.59	1/4	1,495.65	1/4	1,153.71	1/4	812.27	1/4	470.33	1/4	128.39	1/4	1/4	1/4		1/4	
1/2	2,172.41	1/2	1,830.47	1/2	1,488.53	1/2	1,146.59	1/2	805.14	1/2	463.21	1/2	121.27	1/2	1/2	1/2		1/2	
3/4	2,165.29	3/4	1,823.35	3/4	1,481.40	3/4	1,139.46	3/4	798.02	3/4	456.08	3/4	114.15	3/4	3/4	3/4		3/4	
1	2,158.17	1	1,816.22	1	1,474.28	1	1,132.34	1	790.90	1	448.96	1	107.04	1	1	1		1	
1/4	2,151.04	1/4	1,809.10	1/4	1,467.16	1/4	1,125.21	1/4	783.77	1/4	441.83	1/4	99.92	1/4	1/4	1/4		1/4	
1/2	2,143.92	1/2	1,801.98	1/2	1,460.03	1/2	1,118.09	1/2	776.65	1/2	434.71	1/2	92.81	1/2	1/2	1/2		1/2	
3/4	2,136.79	3/4	1,794.85	3/4	1,452.91	3/4	1,110.97	3/4	769.53	3/4	427.59	3/4	85.70	3/4	3/4	3/4		3/4	
2	2,129.67	2	1,787.73	2	1,445.79	2	1,103.85	2	762.40	2	420.46	2	78.61	2	2	2		2	
1/4	2,122.55	1/4	1,780.60	1/4	1,438.66	1/4	1,096.73	1/4	755.28	1/4	413.34	1/4	71.52	1/4	1/4	1/4		1/4	
1/2	2,115.42	1/2	1,773.48	1/2	1,431.54	1/2	1,089.61	1/2	748.15	1/2	406.22	1/2	64.44	1/2	1/2	1/2		1/2	
3/4	2,108.30	3/4	1,766.36	3/4	1,424.41	3/4	1,082.49	3/4	741.03	3/4	399.09	3/4	57.35	3/4	3/4	3/4		3/4	
3	2,101.17	3	1,759.23	3	1,417.29	3	1,075.38	3	733.91	3	391.97	3	51.12	3	3	3		3	
1/4	2,094.05	1/4	1,752.11	1/4	1,410.17	1/4	1,068.27	1/4	726.78	1/4	384.85	1/4	44.88	1/4	1/4	1/4		1/4	
1/2	2,086.93	1/2	1,744.98	1/2	1,403.04	1/2	1,061.16	1/2	719.66	1/2	377.72	1/2	38.65	1/2	1/2	1/2		1/2	
3/4	2,079.80	3/4	1,737.86	3/4	1,395.92	3/4	1,054.05	3/4	712.54	3/4	370.60	3/4	32.42	3/4	3/4	3/4		3/4	
4	2,072.68	4	1,730.74	4	1,388.79	4	1,046.94	4	705.41	4	363.47	4	27.97	4	4	4		4	
1/4	2,065.56	1/4	1,723.61	1/4	1,381.67	1/4	1,039.84	1/4	698.29	1/4	356.35	1/4	23.52	1/4	1/4	1/4		1/4	
1/2	2,058.43	1/2	1,716.49	1/2	1,374.55	1/2	1,032.73	1/2	691.16	1/2	349.23	1/2	19.06	1/2	1/2	1/2		1/2	
3/4	2,051.31	3/4	1,709.37	3/4	1,367.42	3/4	1,025.62	3/4	684.04	3/4	342.10	3/4	14.61	3/4	3/4	3/4		3/4	
5	2,044.18	5	1,702.24	5	1,360.30	5	1,018.51	5	676.92	5	334.98	5		5	5	5		5	
1/4	2,037.06	1/4	1,695.12	1/4	1,353.18	1/4	1,011.40	1/4	669.79	1/4	327.86	1/4		1/4	1/4	1/4		1/4	
1/2	2,029.94	1/2	1,687.99	1/2	1,346.05	1/2	1,004.29	1/2	662.67	1/2	320.73	1/2		1/2	1/2	1/2		1/2	
3/4	2,022.81	3/4	1,680.87	3/4	1,338.93	3/4	997.18	3/4	655.55	3/4	313.61	3/4		3/4	3/4	3/4		3/4	
6	2,015.69	6	1,673.75	6	1,331.80	6	990.07	6	648.42	6	306.48	6		6	6	6		6	
1/4	2,008.57	1/4	1,666.62	1/4	1,324.68	1/4	982.96	1/4	641.30	1/4	299.36	1/4		1/4	1/4	1/4		1/4	
1/2	2,001.44	1/2	1,659.50	1/2	1,317.56	1/2	975.85	1/2	634.17	1/2	292.24	1/2		1/2	1/2	1/2		1/2	
3/4	1,994.32	3/4	1,652.38	3/4	1,310.43	3/4	968.74	3/4	627.05	3/4	285.11	3/4		3/4	3/4	3/4		3/4	
7	1,987.19	7	1,645.25	7	1,303.31	7	961.63	7	619.93	7	277.99	7		7	7	7		7	
1/4	1,980.07	1/4	1,638.13	1/4	1,296.19	1/4	954.52	1/4	612.80	1/4	270.87	1/4		1/4	1/4	1/4		1/4	
1/2	1,972.95	1/2	1,631.00	1/2	1,289.06	1/2	947.41	1/2	605.68	1/2	263.74	1/2		1/2	1/2	1/2		1/2	
3/4	1,965.82	3/4	1,623.88	3/4	1,281.94	3/4	940.30	3/4	598.56	3/4	256.62	3/4		3/4	3/4	3/4		3/4	
8	1,958.70	8	1,616.76	8	1,274.81	8	933.19	8	591.43	8	249.50	8		8	8	8		8	
1/4	1,951.58	1/4	1,609.63	1/4	1,267.69	1/4	926.08	1/4	584.31	1/4	242.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,944.45	1/2	1,602.51	1/2	1,260.57	1/2	918.97	1/2	577.19	1/2	235.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,937.33	3/4	1,595.39	3/4	1,253.44	3/4	911.86	3/4	570.06	3/4	228.12	3/4		3/4	3/4	3/4		3/4	
9	1,930.20	9	1,588.26	9	1,246.32	9	904.75	9	562.94	9	221.00	9		9	9	9		9	
1/4	1,923.08	1/4	1,581.14	1/4	1,239.20	1/4	897.64	1/4	555.81	1/4	213.88	1/4		1/4	1/4	1/4		1/4	
1/2	1,915.96	1/2	1,574.01	1/2	1,232.07	1/2	890.53	1/2	548.69	1/2	206.75	1/2		1/2	1/2	1/2		1/2	
3/4	1,908.83	3/4	1,566.89	3/4	1,224.95	3/4	883.42	3/4	541.57	3/4	199.63	3/4		3/4	3/4	3/4		3/4	
10	1,901.71	10	1,559.77	10	1,217.82	10	876.31	10	534.44	10	192.51	10		10	10	10		10	
1/4	1,894.58	1/4	1,552.64	1/4	1,210.70	1/4	869.20	1/4	527.32	1/4	185.38	1/4		1/4	1/4	1/4		1/4	
1/2	1,887.46	1/2	1,545.52	1/2	1,203.58	1/2	862.09	1/2	520.20	1/2	178.26	1/2		1/2	1/2	1/2		1/2	
3/4	1,880.34	3/4	1,538.39	3/4	1,196.45	3/4	854.98	3/4	513.07	3/4	171.13	3/4		3/4	3/4	3/4		3/4	
11	1,873.21	11	1,531.27	11	1,189.33	11	847.86	11	505.95	11	164.01	11		11	11	11		11	
1/4	1,866.09	1/4	1,524.15	1/4	1,182.20	1/4	840.75	1/4	498.82	1/4	156.89	1/4		1/4	1/4	1/4		1/4	
1/2	1,858.97	1/2	1,517.02	1/2	1,175.08	1/2	833.63	1/2	491.70	1/2	149.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,851.84	3/4	1,509.90	3/4	1,167.96	3/4	826.51	3/4	484.58	3/4	142.64	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

INNAGE (10" 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	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 08-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

December 17, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "MPX 411"

**1 PORT  
INNAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,323.80	0	3,666.65	0	4,009.59	0	4,352.07	0	4,693.44	0	5,014.68	0		0		0		0	
1/4	3,330.94	1/4	3,673.80	1/4	4,016.74	1/4	4,359.19	1/4	4,700.56	1/4	5,017.88	1/4		1/4		1/4		1/4	
1/2	3,338.08	1/2	3,680.94	1/2	4,023.88	1/2	4,366.30	1/2	4,707.67	1/2	5,021.07	1/2		1/2		1/2		1/2	
3/4	3,345.23	3/4	3,688.09	3/4	4,031.03	3/4	4,373.41	3/4	4,714.78	3/4	5,024.27	3/4		3/4		3/4		3/4	
1	3,352.37	1	3,695.23	1	4,038.17	1	4,380.52	1	4,721.89	1	5,027.47	1		1		1		1	
1/4	3,359.51	1/4	3,702.38	1/4	4,045.32	1/4	4,387.63	1/4	4,729.00	1/4	5,029.47	1/4		1/4		1/4		1/4	
1/2	3,366.65	1/2	3,709.52	1/2	4,052.46	1/2	4,394.75	1/2	4,736.12	1/2	5,031.48	1/2		1/2		1/2		1/2	
3/4	3,373.80	3/4	3,716.66	3/4	4,059.61	3/4	4,401.86	3/4	4,743.23	3/4	5,033.48	3/4		3/4		3/4		3/4	
2	3,380.94	2	3,723.81	2	4,066.75	2	4,408.97	2	4,750.34	2	5,035.49	2		2		2		2	
1/4	3,388.08	1/4	3,730.95	1/4	4,073.89	1/4	4,416.08	1/4	4,757.45	1/4	5,036.42	1/4		1/4		1/4		1/4	
1/2	3,395.22	1/2	3,738.10	1/2	4,081.04	1/2	4,423.19	1/2	4,764.56	1/2	5,037.35	1/2		1/2		1/2		1/2	
3/4	3,402.37	3/4	3,745.24	3/4	4,088.18	3/4	4,430.30	3/4	4,771.68	3/4	5,038.27	3/4		3/4		3/4		3/4	
3	3,409.51	3	3,752.39	3	4,095.33	3	4,437.42	3	4,778.79	3	5,039.20	3		3		3		3	
1/4	3,416.65	1/4	3,759.53	1/4	4,102.47	1/4	4,444.53	1/4	4,785.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,423.79	1/2	3,766.68	1/2	4,109.62	1/2	4,451.64	1/2	4,793.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,430.94	3/4	3,773.82	3/4	4,116.76	3/4	4,458.75	3/4	4,800.12	3/4		3/4		3/4		3/4		3/4	
4	3,438.08	4	3,780.97	4	4,123.91	4	4,465.86	4	4,807.24	4		4		4		4		4	
1/4	3,445.22	1/4	3,788.11	1/4	4,131.05	1/4	4,472.98	1/4	4,814.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,452.36	1/2	3,795.25	1/2	4,138.20	1/2	4,480.09	1/2	4,821.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,459.51	3/4	3,802.40	3/4	4,145.34	3/4	4,487.20	3/4	4,828.50	3/4		3/4		3/4		3/4		3/4	
5	3,466.65	5	3,809.54	5	4,152.48	5	4,494.31	5	4,835.59	5		5		5		5		5	
1/4	3,473.79	1/4	3,816.69	1/4	4,159.63	1/4	4,501.42	1/4	4,842.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,480.93	1/2	3,823.83	1/2	4,166.77	1/2	4,508.54	1/2	4,849.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,488.08	3/4	3,830.98	3/4	4,173.92	3/4	4,515.65	3/4	4,856.80	3/4		3/4		3/4		3/4		3/4	
6	3,495.22	6	3,838.12	6	4,181.06	6	4,522.76	6	4,863.86	6		6		6		6		6	
1/4	3,502.36	1/4	3,845.27	1/4	4,188.21	1/4	4,529.87	1/4	4,870.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,509.50	1/2	3,852.41	1/2	4,195.35	1/2	4,536.98	1/2	4,878.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,516.65	3/4	3,859.56	3/4	4,202.50	3/4	4,544.09	3/4	4,885.06	3/4		3/4		3/4		3/4		3/4	
7	3,523.79	7	3,866.70	7	4,209.64	7	4,551.21	7	4,892.13	7		7		7		7		7	
1/4	3,530.93	1/4	3,873.85	1/4	4,216.79	1/4	4,558.32	1/4	4,899.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.08	1/2	3,880.99	1/2	4,223.93	1/2	4,565.43	1/2	4,906.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,545.22	3/4	3,888.13	3/4	4,231.08	3/4	4,572.54	3/4	4,913.31	3/4		3/4		3/4		3/4		3/4	
8	3,552.36	8	3,895.28	8	4,238.22	8	4,579.65	8	4,920.37	8		8		8		8		8	
1/4	3,559.50	1/4	3,902.42	1/4	4,245.35	1/4	4,586.77	1/4	4,927.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,566.65	1/2	3,909.57	1/2	4,252.48	1/2	4,593.88	1/2	4,934.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.79	3/4	3,916.71	3/4	4,259.60	3/4	4,600.99	3/4	4,941.44	3/4		3/4		3/4		3/4		3/4	
9	3,580.93	9	3,923.86	9	4,266.73	9	4,608.10	9	4,948.47	9		9		9		9		9	
1/4	3,588.07	1/4	3,931.00	1/4	4,273.84	1/4	4,615.21	1/4	4,955.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.22	1/2	3,938.15	1/2	4,280.95	1/2	4,622.33	1/2	4,961.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.36	3/4	3,945.29	3/4	4,288.07	3/4	4,629.44	3/4	4,968.23	3/4		3/4		3/4		3/4		3/4	
10	3,609.50	10	3,952.44	10	4,295.18	10	4,636.55	10	4,974.81	10		10		10		10		10	
1/4	3,616.64	1/4	3,959.58	1/4	4,302.29	1/4	4,643.66	1/4	4,980.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.79	1/2	3,966.73	1/2	4,309.40	1/2	4,650.77	1/2	4,985.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.93	3/4	3,973.87	3/4	4,316.51	3/4	4,657.89	3/4	4,991.55	3/4		3/4		3/4		3/4		3/4	
11	3,638.07	11	3,981.01	11	4,323.63	11	4,665.00	11	4,997.13	11		11		11		11		11	
1/4	3,645.22	1/4	3,988.16	1/4	4,330.74	1/4	4,672.11	1/4	5,001.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.36	1/2	3,995.30	1/2	4,337.85	1/2	4,679.22	1/2	5,005.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.51	3/4	4,002.45	3/4	4,344.96	3/4	4,686.33	3/4	5,010.29	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020





# BARGE "MPX 411"

**1 STBD  
INNAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,323.89	0	3,666.51	0	4,009.22	0	4,351.48	0	4,692.62	0	5,013.63	0		0		0		0	
1/4	3,331.03	1/4	3,673.65	1/4	4,016.36	1/4	4,358.58	1/4	4,699.72	1/4	5,016.82	1/4		1/4		1/4		1/4	
1/2	3,338.17	1/2	3,680.79	1/2	4,023.50	1/2	4,365.69	1/2	4,706.83	1/2	5,020.02	1/2		1/2		1/2		1/2	
3/4	3,345.30	3/4	3,687.93	3/4	4,030.64	3/4	4,372.80	3/4	4,713.94	3/4	5,023.21	3/4		3/4		3/4		3/4	
1	3,352.44	1	3,695.07	1	4,037.78	1	4,379.90	1	4,721.05	1	5,026.41	1		1		1		1	
1/4	3,359.58	1/4	3,702.21	1/4	4,044.92	1/4	4,387.01	1/4	4,728.15	1/4	5,028.41	1/4		1/4		1/4		1/4	
1/2	3,366.72	1/2	3,709.35	1/2	4,052.06	1/2	4,394.12	1/2	4,735.26	1/2	5,030.42	1/2		1/2		1/2		1/2	
3/4	3,373.85	3/4	3,716.49	3/4	4,059.20	3/4	4,401.23	3/4	4,742.37	3/4	5,032.42	3/4		3/4		3/4		3/4	
2	3,380.99	2	3,723.63	2	4,066.34	2	4,408.33	2	4,749.47	2	5,034.43	2		2		2		2	
1/4	3,388.13	1/4	3,730.77	1/4	4,073.48	1/4	4,415.44	1/4	4,756.58	1/4	5,035.35	1/4		1/4		1/4		1/4	
1/2	3,395.27	1/2	3,737.91	1/2	4,080.62	1/2	4,422.55	1/2	4,763.69	1/2	5,036.28	1/2		1/2		1/2		1/2	
3/4	3,402.41	3/4	3,745.05	3/4	4,087.76	3/4	4,429.65	3/4	4,770.79	3/4	5,037.21	3/4		3/4		3/4		3/4	
3	3,409.54	3	3,752.19	3	4,094.90	3	4,436.76	3	4,777.90	3	5,038.14	3		3		3		3	
1/4	3,416.68	1/4	3,759.33	1/4	4,102.04	1/4	4,443.87	1/4	4,785.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,423.82	1/2	3,766.47	1/2	4,109.18	1/2	4,450.98	1/2	4,792.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,430.96	3/4	3,773.61	3/4	4,116.32	3/4	4,458.08	3/4	4,799.22	3/4		3/4		3/4		3/4		3/4	
4	3,438.10	4	3,780.75	4	4,123.46	4	4,465.19	4	4,806.33	4		4		4		4		4	
1/4	3,445.23	1/4	3,787.89	1/4	4,130.60	1/4	4,472.30	1/4	4,813.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,452.37	1/2	3,795.03	1/2	4,137.74	1/2	4,479.40	1/2	4,820.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,459.51	3/4	3,802.17	3/4	4,144.88	3/4	4,486.51	3/4	4,827.59	3/4		3/4		3/4		3/4		3/4	
5	3,466.65	5	3,809.31	5	4,152.02	5	4,493.62	5	4,834.67	5		5		5		5		5	
1/4	3,473.78	1/4	3,816.45	1/4	4,159.16	1/4	4,500.72	1/4	4,841.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,480.92	1/2	3,823.59	1/2	4,166.30	1/2	4,507.83	1/2	4,848.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,488.06	3/4	3,830.73	3/4	4,173.44	3/4	4,514.94	3/4	4,855.86	3/4		3/4		3/4		3/4		3/4	
6	3,495.20	6	3,837.87	6	4,180.58	6	4,522.05	6	4,862.92	6		6		6		6		6	
1/4	3,502.34	1/4	3,845.01	1/4	4,187.72	1/4	4,529.15	1/4	4,869.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,509.47	1/2	3,852.15	1/2	4,194.86	1/2	4,536.26	1/2	4,877.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,516.61	3/4	3,859.29	3/4	4,202.00	3/4	4,543.37	3/4	4,884.10	3/4		3/4		3/4		3/4		3/4	
7	3,523.75	7	3,866.43	7	4,209.14	7	4,550.47	7	4,891.17	7		7		7		7		7	
1/4	3,530.89	1/4	3,873.57	1/4	4,216.28	1/4	4,557.58	1/4	4,898.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.02	1/2	3,880.71	1/2	4,223.42	1/2	4,564.69	1/2	4,905.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,545.16	3/4	3,887.85	3/4	4,230.56	3/4	4,571.80	3/4	4,912.33	3/4		3/4		3/4		3/4		3/4	
8	3,552.30	8	3,894.99	8	4,237.70	8	4,578.90	8	4,919.38	8		8		8		8		8	
1/4	3,559.44	1/4	3,902.13	1/4	4,244.82	1/4	4,586.01	1/4	4,926.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,566.58	1/2	3,909.27	1/2	4,251.94	1/2	4,593.12	1/2	4,933.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.71	3/4	3,916.41	3/4	4,259.07	3/4	4,600.22	3/4	4,940.44	3/4		3/4		3/4		3/4		3/4	
9	3,580.85	9	3,923.55	9	4,266.19	9	4,607.33	9	4,947.47	9		9		9		9		9	
1/4	3,587.99	1/4	3,930.69	1/4	4,273.30	1/4	4,614.44	1/4	4,954.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.13	1/2	3,937.83	1/2	4,280.40	1/2	4,621.55	1/2	4,960.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.26	3/4	3,944.97	3/4	4,287.51	3/4	4,628.65	3/4	4,967.21	3/4		3/4		3/4		3/4		3/4	
10	3,609.40	10	3,952.11	10	4,294.62	10	4,635.76	10	4,973.79	10		10		10		10		10	
1/4	3,616.54	1/4	3,959.25	1/4	4,301.73	1/4	4,642.87	1/4	4,979.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.68	1/2	3,966.39	1/2	4,308.83	1/2	4,649.97	1/2	4,984.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.82	3/4	3,973.53	3/4	4,315.94	3/4	4,657.08	3/4	4,990.52	3/4		3/4		3/4		3/4		3/4	
11	3,637.96	11	3,980.67	11	4,323.05	11	4,664.19	11	4,996.09	11		11		11		11		11	
1/4	3,645.10	1/4	3,987.81	1/4	4,330.15	1/4	4,671.30	1/4	5,000.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.24	1/2	3,994.95	1/2	4,337.26	1/2	4,678.40	1/2	5,004.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.37	3/4	4,002.09	3/4	4,344.37	3/4	4,685.51	3/4	5,009.24	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020







# BARGE "MPX 411"

## 2 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,380.94	0	3,724.68	0	4,068.42	0	4,411.71	0	4,753.89	0	5,075.86	0		0		0		0	
1/4	3,388.10	1/4	3,731.84	1/4	4,075.59	1/4	4,418.84	1/4	4,761.02	1/4	5,079.07	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,395.26	1/2	3,739.00	1/2	4,082.75	1/2	4,425.97	1/2	4,768.15	1/2	5,082.27	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,402.42	3/4	3,746.17	3/4	4,089.91	3/4	4,433.10	3/4	4,775.28	3/4	5,085.47	3/4	3/4	3/4	3/4		3/4		3/4
1	3,409.58	1	3,753.33	1	4,097.07	1	4,440.23	1	4,782.41	1	5,088.68	1		1		1		1	
1/4	3,416.75	1/4	3,760.49	1/4	4,104.23	1/4	4,447.36	1/4	4,789.54	1/4	5,090.69	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,423.91	1/2	3,767.65	1/2	4,111.39	1/2	4,454.49	1/2	4,796.66	1/2	5,092.70	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,431.07	3/4	3,774.81	3/4	4,118.55	3/4	4,461.62	3/4	4,803.79	3/4	5,094.71	3/4	3/4	3/4	3/4		3/4		3/4
2	3,438.23	2	3,781.97	2	4,125.72	2	4,468.74	2	4,810.92	2	5,096.72	2		2		2		2	
1/4	3,445.39	1/4	3,789.13	1/4	4,132.88	1/4	4,475.87	1/4	4,818.05	1/4	5,097.65	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,452.55	1/2	3,796.30	1/2	4,140.04	1/2	4,483.00	1/2	4,825.18	1/2	5,098.58	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,459.71	3/4	3,803.46	3/4	4,147.20	3/4	4,490.13	3/4	4,832.31	3/4	5,099.51	3/4	3/4	3/4	3/4		3/4		3/4
3	3,466.88	3	3,810.62	3	4,154.36	3	4,497.26	3	4,839.44	3	5,100.44	3		3		3		3	
1/4	3,474.04	1/4	3,817.78	1/4	4,161.52	1/4	4,504.39	1/4	4,846.57	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,481.20	1/2	3,824.94	1/2	4,168.68	1/2	4,511.52	1/2	4,853.69	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,488.36	3/4	3,832.10	3/4	4,175.84	3/4	4,518.65	3/4	4,860.82	3/4		3/4	3/4	3/4	3/4		3/4		3/4
4	3,495.52	4	3,839.26	4	4,183.01	4	4,525.77	4	4,867.95	4		4		4		4		4	
1/4	3,502.68	1/4	3,846.42	1/4	4,190.17	1/4	4,532.90	1/4	4,875.06	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,509.84	1/2	3,853.59	1/2	4,197.33	1/2	4,540.03	1/2	4,882.16	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,517.00	3/4	3,860.75	3/4	4,204.49	3/4	4,547.16	3/4	4,889.27	3/4		3/4	3/4	3/4	3/4		3/4		3/4
5	3,524.17	5	3,867.91	5	4,211.65	5	4,554.29	5	4,896.37	5		5		5		5		5	
1/4	3,531.33	1/4	3,875.07	1/4	4,218.81	1/4	4,561.42	1/4	4,903.45	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,538.49	1/2	3,882.23	1/2	4,225.97	1/2	4,568.55	1/2	4,910.54	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,545.65	3/4	3,889.39	3/4	4,233.13	3/4	4,575.67	3/4	4,917.62	3/4		3/4	3/4	3/4	3/4		3/4		3/4
6	3,552.81	6	3,896.55	6	4,240.30	6	4,582.80	6	4,924.71	6		6		6		6		6	
1/4	3,559.97	1/4	3,903.71	1/4	4,247.46	1/4	4,589.93	1/4	4,931.79	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,567.13	1/2	3,910.88	1/2	4,254.62	1/2	4,597.06	1/2	4,938.87	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,574.29	3/4	3,918.04	3/4	4,261.78	3/4	4,604.19	3/4	4,945.95	3/4		3/4	3/4	3/4	3/4		3/4		3/4
7	3,581.46	7	3,925.20	7	4,268.94	7	4,611.32	7	4,953.03	7		7		7		7		7	
1/4	3,588.62	1/4	3,932.36	1/4	4,276.10	1/4	4,618.45	1/4	4,960.11	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,595.78	1/2	3,939.52	1/2	4,283.26	1/2	4,625.58	1/2	4,967.18	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,602.94	3/4	3,946.68	3/4	4,290.42	3/4	4,632.70	3/4	4,974.26	3/4		3/4	3/4	3/4	3/4		3/4		3/4
8	3,610.10	8	3,953.84	8	4,297.59	8	4,639.83	8	4,981.33	8		8		8		8		8	
1/4	3,617.26	1/4	3,961.01	1/4	4,304.73	1/4	4,646.96	1/4	4,988.38	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,624.42	1/2	3,968.17	1/2	4,311.88	1/2	4,654.09	1/2	4,995.42	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,631.59	3/4	3,975.33	3/4	4,319.02	3/4	4,661.22	3/4	5,002.46	3/4		3/4	3/4	3/4	3/4		3/4		3/4
9	3,638.75	9	3,982.49	9	4,326.17	9	4,668.35	9	5,009.50	9		9		9		9		9	
1/4	3,645.91	1/4	3,989.65	1/4	4,333.30	1/4	4,675.48	1/4	5,016.10	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,653.07	1/2	3,996.81	1/2	4,340.43	1/2	4,682.61	1/2	5,022.71	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,660.23	3/4	4,003.97	3/4	4,347.56	3/4	4,689.73	3/4	5,029.31	3/4		3/4	3/4	3/4	3/4		3/4		3/4
10	3,667.39	10	4,011.13	10	4,354.69	10	4,696.86	10	5,035.91	10		10		10		10		10	
1/4	3,674.55	1/4	4,018.30	1/4	4,361.81	1/4	4,703.99	1/4	5,041.50	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,681.71	1/2	4,025.46	1/2	4,368.94	1/2	4,711.12	1/2	5,047.09	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,688.88	3/4	4,032.62	3/4	4,376.07	3/4	4,718.25	3/4	5,052.68	3/4		3/4	3/4	3/4	3/4		3/4		3/4
11	3,696.04	11	4,039.78	11	4,383.20	11	4,725.38	11	5,058.27	11		11		11		11		11	
1/4	3,703.20	1/4	4,046.94	1/4	4,390.33	1/4	4,732.51	1/4	5,062.67	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,710.36	1/2	4,054.10	1/2	4,397.46	1/2	4,739.63	1/2	5,067.07	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,717.52	3/4	4,061.26	3/4	4,404.59	3/4	4,746.76	3/4	5,071.47	3/4		3/4	3/4	3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
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ALL PRIOR TO 12/2020

PRECISION MEASUREMENT  
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# BARGE "MPX 411"

**2 STBD  
INNAGE TABLE**

**10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	300.67	0	644.10	0	987.26	0	1,330.49	0	1,673.93	0	2,017.38	0	2,360.82	0	2,704.27	0	3,047.71
1/4	3.94	1/4	307.82	1/4	651.25	1/4	994.40	1/4	1,337.64	1/4	1,681.09	1/4	2,024.53	1/4	2,367.98	1/4	2,711.42	1/4	3,054.86
1/2	5.73	1/2	314.98	1/2	658.41	1/2	1,001.54	1/2	1,344.80	1/2	1,688.24	1/2	2,031.69	1/2	2,375.13	1/2	2,718.58	1/2	3,062.01
3/4	7.52	3/4	322.13	3/4	665.56	3/4	1,008.68	3/4	1,351.95	3/4	1,695.40	3/4	2,038.84	3/4	2,382.29	3/4	2,725.73	3/4	3,069.17
1	9.31	1	329.29	1	672.72	1	1,015.83	1	1,359.11	1	1,702.55	1	2,046.00	1	2,389.44	1	2,732.89	1	3,076.32
1/4	12.89	1/4	336.44	1/4	679.87	1/4	1,022.97	1/4	1,366.26	1/4	1,709.71	1/4	2,053.15	1/4	2,396.60	1/4	2,740.04	1/4	3,083.47
1/2	16.46	1/2	343.60	1/2	687.03	1/2	1,030.11	1/2	1,373.42	1/2	1,716.86	1/2	2,060.31	1/2	2,403.75	1/2	2,747.20	1/2	3,090.63
3/4	20.04	3/4	350.75	3/4	694.18	3/4	1,037.25	3/4	1,380.57	3/4	1,724.02	3/4	2,067.46	3/4	2,410.91	3/4	2,754.35	3/4	3,097.78
2	23.62	2	357.91	2	701.34	2	1,044.39	2	1,387.73	2	1,731.17	2	2,074.62	2	2,418.06	2	2,761.51	2	3,104.93
1/4	28.98	1/4	365.06	1/4	708.49	1/4	1,051.53	1/4	1,394.88	1/4	1,738.33	1/4	2,081.77	1/4	2,425.22	1/4	2,768.66	1/4	3,112.09
1/2	34.35	1/2	372.22	1/2	715.65	1/2	1,058.67	1/2	1,402.04	1/2	1,745.48	1/2	2,088.93	1/2	2,432.37	1/2	2,775.82	1/2	3,119.24
3/4	39.72	3/4	379.37	3/4	722.80	3/4	1,065.81	3/4	1,409.19	3/4	1,752.64	3/4	2,096.08	3/4	2,439.53	3/4	2,782.97	3/4	3,126.39
3	45.08	3	386.53	3	729.96	3	1,072.95	3	1,416.35	3	1,759.79	3	2,103.24	3	2,446.68	3	2,790.13	3	3,133.54
1/4	51.77	1/4	393.68	1/4	737.11	1/4	1,080.10	1/4	1,423.50	1/4	1,766.95	1/4	2,110.39	1/4	2,453.84	1/4	2,797.28	1/4	3,140.70
1/2	58.46	1/2	400.84	1/2	744.27	1/2	1,087.24	1/2	1,430.66	1/2	1,774.10	1/2	2,117.55	1/2	2,460.99	1/2	2,804.44	1/2	3,147.85
3/4	65.15	3/4	407.99	3/4	751.42	3/4	1,094.39	3/4	1,437.81	3/4	1,781.26	3/4	2,124.70	3/4	2,468.15	3/4	2,811.59	3/4	3,155.00
4	71.84	4	415.15	4	758.58	4	1,101.53	4	1,444.97	4	1,788.41	4	2,131.86	4	2,475.30	4	2,818.75	4	3,162.16
1/4	78.97	1/4	422.30	1/4	765.73	1/4	1,108.69	1/4	1,452.12	1/4	1,795.57	1/4	2,139.01	1/4	2,482.46	1/4	2,825.90	1/4	3,169.31
1/2	86.10	1/2	429.46	1/2	772.89	1/2	1,115.84	1/2	1,459.28	1/2	1,802.72	1/2	2,146.17	1/2	2,489.61	1/2	2,833.06	1/2	3,176.46
3/4	93.23	3/4	436.61	3/4	780.04	3/4	1,122.99	3/4	1,466.43	3/4	1,809.88	3/4	2,153.32	3/4	2,496.77	3/4	2,840.21	3/4	3,183.62
5	100.36	5	443.77	5	787.20	5	1,130.14	5	1,473.59	5	1,817.03	5	2,160.48	5	2,503.92	5	2,847.37	5	3,190.77
1/4	107.51	1/4	450.92	1/4	794.35	1/4	1,137.30	1/4	1,480.74	1/4	1,824.19	1/4	2,167.63	1/4	2,511.08	1/4	2,854.52	1/4	3,197.92
1/2	114.66	1/2	458.08	1/2	801.51	1/2	1,144.45	1/2	1,487.90	1/2	1,831.34	1/2	2,174.79	1/2	2,518.23	1/2	2,861.68	1/2	3,205.08
3/4	121.81	3/4	465.23	3/4	808.66	3/4	1,151.61	3/4	1,495.05	3/4	1,838.50	3/4	2,181.94	3/4	2,525.39	3/4	2,868.83	3/4	3,212.23
6	128.96	6	472.38	6	815.82	6	1,158.76	6	1,502.21	6	1,845.65	6	2,189.10	6	2,532.54	6	2,875.99	6	3,219.38
1/4	136.11	1/4	479.54	1/4	822.97	1/4	1,165.92	1/4	1,509.36	1/4	1,852.81	1/4	2,196.25	1/4	2,539.70	1/4	2,883.14	1/4	3,226.53
1/2	143.27	1/2	486.69	1/2	830.12	1/2	1,173.07	1/2	1,516.52	1/2	1,859.96	1/2	2,203.41	1/2	2,546.85	1/2	2,890.30	1/2	3,233.69
3/4	150.42	3/4	493.85	3/4	837.27	3/4	1,180.23	3/4	1,523.67	3/4	1,867.12	3/4	2,210.56	3/4	2,554.01	3/4	2,897.45	3/4	3,240.84
7	157.57	7	501.00	7	844.43	7	1,187.38	7	1,530.83	7	1,874.27	7	2,217.72	7	2,561.16	7	2,904.61	7	3,247.99
1/4	164.73	1/4	508.16	1/4	851.57	1/4	1,194.54	1/4	1,537.98	1/4	1,881.43	1/4	2,224.87	1/4	2,568.32	1/4	2,911.76	1/4	3,255.15
1/2	171.88	1/2	515.31	1/2	858.72	1/2	1,201.69	1/2	1,545.14	1/2	1,888.58	1/2	2,232.03	1/2	2,575.47	1/2	2,918.92	1/2	3,262.30
3/4	179.04	3/4	522.47	3/4	865.86	3/4	1,208.85	3/4	1,552.29	3/4	1,895.74	3/4	2,239.18	3/4	2,582.63	3/4	2,926.07	3/4	3,269.45
8	186.19	8	529.62	8	873.01	8	1,216.00	8	1,559.45	8	1,902.89	8	2,246.34	8	2,589.78	8	2,933.23	8	3,276.61
1/4	193.35	1/4	536.78	1/4	880.15	1/4	1,223.16	1/4	1,566.60	1/4	1,910.05	1/4	2,253.49	1/4	2,596.94	1/4	2,940.38	1/4	3,283.76
1/2	200.50	1/2	543.93	1/2	887.29	1/2	1,230.31	1/2	1,573.76	1/2	1,917.20	1/2	2,260.65	1/2	2,604.09	1/2	2,947.54	1/2	3,290.91
3/4	207.66	3/4	551.09	3/4	894.43	3/4	1,237.47	3/4	1,580.91	3/4	1,924.36	3/4	2,267.80	3/4	2,611.25	3/4	2,954.69	3/4	3,298.07
9	214.81	9	558.24	9	901.57	9	1,244.62	9	1,588.07	9	1,931.51	9	2,274.96	9	2,618.40	9	2,961.85	9	3,305.22
1/4	221.97	1/4	565.40	1/4	908.71	1/4	1,251.78	1/4	1,595.22	1/4	1,938.67	1/4	2,282.11	1/4	2,625.56	1/4	2,969.00	1/4	3,312.37
1/2	229.12	1/2	572.55	1/2	915.85	1/2	1,258.94	1/2	1,602.38	1/2	1,945.82	1/2	2,289.27	1/2	2,632.71	1/2	2,976.16	1/2	3,319.52
3/4	236.28	3/4	579.71	3/4	922.99	3/4	1,266.09	3/4	1,609.53	3/4	1,952.98	3/4	2,296.42	3/4	2,639.87	3/4	2,983.31	3/4	3,326.68
10	243.43	10	586.86	10	930.13	10	1,273.25	10	1,616.69	10	1,960.13	10	2,303.58	10	2,647.02	10	2,990.47	10	3,333.83
1/4	250.59	1/4	594.02	1/4	937.27	1/4	1,280.40	1/4	1,623.85	1/4	1,967.29	1/4	2,310.73	1/4	2,654.18	1/4	2,997.62	1/4	3,340.98
1/2	257.74	1/2	601.17	1/2	944.42	1/2	1,287.56	1/2	1,631.00	1/2	1,974.45	1/2	2,317.89	1/2	2,661.33	1/2	3,004.78	1/2	3,348.14
3/4	264.90	3/4	608.33	3/4	951.56	3/4	1,294.71	3/4	1,638.16	3/4	1,981.60	3/4	2,325.04	3/4	2,668.49	3/4	3,011.93	3/4	3,355.29
11	272.05	11	615.48	11	958.70	11	1,301.87	11	1,645.31	11	1,988.76	11	2,332.20	11	2,675.64	11	3,019.09	11	3,362.44
1/4	279.21	1/4	622.64	1/4	965.84	1/4	1,309.02	1/4	1,652.47	1/4	1,995.91	1/4	2,339.36	1/4	2,682.80	1/4	3,026.24	1/4	3,369.60
1/2	286.36	1/2	629.79	1/2	972.98	1/2	1,316.18	1/2	1,659.62	1/2	2,003.07	1/2	2,346.51	1/2	2,689.95	1/2	3,033.40	1/2	3,376.75
3/4	293.51	3/4	636.95	3/4	980.12	3/4	1,323.33	3/4	1,666.78	3/4	2,010.22	3/4	2,353.67	3/4	2,697.11	3/4	3,040.55	3/4	3,383.90

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MPX 411"

**2 STBD  
INNAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,391.06	0	3,734.41	0	4,077.86	0	4,420.84	0	4,762.72	0	5,084.42	0		0		0		0	
1/4	3,398.21	1/4	3,741.57	1/4	4,085.01	1/4	4,427.97	1/4	4,769.84	1/4	5,087.62	1/4		1/4		1/4		1/4	
1/2	3,405.36	1/2	3,748.72	1/2	4,092.17	1/2	4,435.09	1/2	4,776.96	1/2	5,090.82	1/2		1/2		1/2		1/2	
3/4	3,412.52	3/4	3,755.88	3/4	4,099.32	3/4	4,442.21	3/4	4,784.09	3/4	5,094.02	3/4		3/4		3/4		3/4	
1	3,419.67	1	3,763.03	1	4,106.48	1	4,449.33	1	4,791.21	1	5,097.23	1		1		1		1	
1/4	3,426.82	1/4	3,770.19	1/4	4,113.63	1/4	4,456.46	1/4	4,798.33	1/4	5,099.24	1/4		1/4		1/4		1/4	
1/2	3,433.97	1/2	3,777.34	1/2	4,120.79	1/2	4,463.58	1/2	4,805.45	1/2	5,101.24	1/2		1/2		1/2		1/2	
3/4	3,441.13	3/4	3,784.50	3/4	4,127.94	3/4	4,470.70	3/4	4,812.58	3/4	5,103.25	3/4		3/4		3/4		3/4	
2	3,448.28	2	3,791.66	2	4,135.10	2	4,477.82	2	4,819.70	2	5,105.26	2		2		2		2	
1/4	3,455.43	1/4	3,798.81	1/4	4,142.26	1/4	4,484.95	1/4	4,826.82	1/4	5,106.19	1/4		1/4		1/4		1/4	
1/2	3,462.59	1/2	3,805.97	1/2	4,149.41	1/2	4,492.07	1/2	4,833.94	1/2	5,107.12	1/2		1/2		1/2		1/2	
3/4	3,469.74	3/4	3,813.12	3/4	4,156.57	3/4	4,499.19	3/4	4,841.07	3/4	5,108.05	3/4		3/4		3/4		3/4	
3	3,476.89	3	3,820.28	3	4,163.72	3	4,506.31	3	4,848.19	3	5,108.98	3		3		3		3	
1/4	3,484.05	1/4	3,827.43	1/4	4,170.88	1/4	4,513.44	1/4	4,855.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.20	1/2	3,834.59	1/2	4,178.03	1/2	4,520.56	1/2	4,862.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,498.35	3/4	3,841.74	3/4	4,185.19	3/4	4,527.68	3/4	4,869.56	3/4		3/4		3/4		3/4		3/4	
4	3,505.51	4	3,848.90	4	4,192.34	4	4,534.80	4	4,876.68	4		4		4		4		4	
1/4	3,512.66	1/4	3,856.05	1/4	4,199.50	1/4	4,541.92	1/4	4,883.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,519.81	1/2	3,863.21	1/2	4,206.65	1/2	4,549.05	1/2	4,890.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,526.96	3/4	3,870.36	3/4	4,213.81	3/4	4,556.17	3/4	4,897.98	3/4		3/4		3/4		3/4		3/4	
5	3,534.12	5	3,877.52	5	4,220.96	5	4,563.29	5	4,905.08	5		5		5		5		5	
1/4	3,541.27	1/4	3,884.67	1/4	4,228.12	1/4	4,570.41	1/4	4,912.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,548.42	1/2	3,891.83	1/2	4,235.27	1/2	4,577.54	1/2	4,919.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.58	3/4	3,898.98	3/4	4,242.43	3/4	4,584.66	3/4	4,926.31	3/4		3/4		3/4		3/4		3/4	
6	3,562.73	6	3,906.14	6	4,249.58	6	4,591.78	6	4,933.39	6		6		6		6		6	
1/4	3,569.88	1/4	3,913.29	1/4	4,256.74	1/4	4,598.90	1/4	4,940.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,577.04	1/2	3,920.45	1/2	4,263.89	1/2	4,606.03	1/2	4,947.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.19	3/4	3,927.60	3/4	4,271.05	3/4	4,613.15	3/4	4,954.62	3/4		3/4		3/4		3/4		3/4	
7	3,591.34	7	3,934.76	7	4,278.20	7	4,620.27	7	4,961.69	7		7		7		7		7	
1/4	3,598.50	1/4	3,941.91	1/4	4,285.36	1/4	4,627.39	1/4	4,968.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.65	1/2	3,949.07	1/2	4,292.51	1/2	4,634.52	1/2	4,975.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.80	3/4	3,956.22	3/4	4,299.67	3/4	4,641.64	3/4	4,982.90	3/4		3/4		3/4		3/4		3/4	
8	3,619.96	8	3,963.38	8	4,306.82	8	4,648.76	8	4,989.97	8		8		8		8		8	
1/4	3,627.11	1/4	3,970.53	1/4	4,313.96	1/4	4,655.88	1/4	4,997.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,634.26	1/2	3,977.69	1/2	4,321.10	1/2	4,663.01	1/2	5,004.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,641.41	3/4	3,984.84	3/4	4,328.24	3/4	4,670.13	3/4	5,011.08	3/4		3/4		3/4		3/4		3/4	
9	3,648.57	9	3,992.00	9	4,335.38	9	4,677.25	9	5,018.11	9		9		9		9		9	
1/4	3,655.72	1/4	3,999.15	1/4	4,342.50	1/4	4,684.37	1/4	5,024.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.87	1/2	4,006.31	1/2	4,349.62	1/2	4,691.50	1/2	5,031.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,670.03	3/4	4,013.46	3/4	4,356.74	3/4	4,698.62	3/4	5,037.90	3/4		3/4		3/4		3/4		3/4	
10	3,677.18	10	4,020.62	10	4,363.86	10	4,705.74	10	5,044.49	10		10		10		10		10	
1/4	3,684.33	1/4	4,027.77	1/4	4,370.99	1/4	4,712.86	1/4	5,050.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.49	1/2	4,034.93	1/2	4,378.11	1/2	4,719.98	1/2	5,055.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.64	3/4	4,042.08	3/4	4,385.23	3/4	4,727.11	3/4	5,061.26	3/4		3/4		3/4		3/4		3/4	
11	3,705.79	11	4,049.24	11	4,392.35	11	4,734.23	11	5,066.84	11		11		11		11		11	
1/4	3,712.95	1/4	4,056.39	1/4	4,399.48	1/4	4,741.35	1/4	5,071.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,720.10	1/2	4,063.55	1/2	4,406.60	1/2	4,748.47	1/2	5,075.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,727.26	3/4	4,070.70	3/4	4,413.72	3/4	4,755.60	3/4	5,080.02	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 3 PORT INNAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.82	0	641.84	0	976.01	0	1,311.38	0	1,653.22	0	1,995.06	0	2,336.91	0	2,678.72	0	3,020.69
1/4	3.93	1/4	306.96	1/4	648.96	1/4	982.82	1/4	1,318.50	1/4	1,660.34	1/4	2,002.19	1/4	2,344.03	1/4	2,685.84	1/4	3,027.81
1/2	5.72	1/2	314.09	1/2	656.09	1/2	989.63	1/2	1,325.62	1/2	1,667.47	1/2	2,009.31	1/2	2,351.15	1/2	2,692.96	1/2	3,034.93
3/4	7.50	3/4	321.22	3/4	663.21	3/4	996.44	3/4	1,332.75	3/4	1,674.59	3/4	2,016.43	3/4	2,358.27	3/4	2,700.08	3/4	3,042.06
1	9.28	1	328.36	1	670.33	1	1,003.25	1	1,339.87	1	1,681.71	1	2,023.55	1	2,365.39	1	2,707.20	1	3,049.18
1/4	12.85	1/4	335.49	1/4	677.46	1/4	1,010.07	1/4	1,346.99	1/4	1,688.83	1/4	2,030.67	1/4	2,372.51	1/4	2,714.32	1/4	3,056.30
1/2	16.42	1/2	342.63	1/2	684.58	1/2	1,016.88	1/2	1,354.11	1/2	1,695.95	1/2	2,037.79	1/2	2,379.64	1/2	2,721.45	1/2	3,063.42
3/4	19.99	3/4	349.76	3/4	691.70	3/4	1,023.69	3/4	1,361.23	3/4	1,703.07	3/4	2,044.92	3/4	2,386.76	3/4	2,728.57	3/4	3,070.53
2	23.55	2	356.90	2	698.83	2	1,030.50	2	1,368.35	2	1,710.20	2	2,052.04	2	2,393.88	2	2,735.69	2	3,077.65
1/4	28.90	1/4	364.03	1/4	705.95	1/4	1,037.32	1/4	1,375.48	1/4	1,717.32	1/4	2,059.16	1/4	2,401.00	1/4	2,742.81	1/4	3,084.77
1/2	34.25	1/2	371.16	1/2	713.07	1/2	1,044.13	1/2	1,382.60	1/2	1,724.44	1/2	2,066.28	1/2	2,408.12	1/2	2,749.93	1/2	3,091.88
3/4	39.60	3/4	378.28	3/4	720.19	3/4	1,050.94	3/4	1,389.72	3/4	1,731.56	3/4	2,073.40	3/4	2,415.24	3/4	2,757.05	3/4	3,099.00
3	44.95	3	385.41	3	727.32	3	1,057.75	3	1,396.84	3	1,738.68	3	2,080.52	3	2,422.37	3	2,764.17	3	3,106.12
1/4	51.62	1/4	392.54	1/4	734.44	1/4	1,064.57	1/4	1,403.96	1/4	1,745.80	1/4	2,087.65	1/4	2,429.49	1/4	2,771.29	1/4	3,113.23
1/2	58.29	1/2	399.66	1/2	741.56	1/2	1,071.38	1/2	1,411.08	1/2	1,752.93	1/2	2,094.77	1/2	2,436.61	1/2	2,778.41	1/2	3,120.33
3/4	64.96	3/4	406.78	3/4	748.69	3/4	1,078.20	3/4	1,418.21	3/4	1,760.05	3/4	2,101.89	3/4	2,443.73	3/4	2,785.53	3/4	3,127.44
4	71.63	4	413.91	4	755.81	4	1,085.02	4	1,425.33	4	1,767.17	4	2,109.01	4	2,450.85	4	2,792.65	4	3,134.55
1/4	78.75	1/4	421.03	1/4	762.93	1/4	1,091.87	1/4	1,432.45	1/4	1,774.29	1/4	2,116.13	1/4	2,457.97	1/4	2,799.77	1/4	3,141.65
1/2	85.86	1/2	428.15	1/2	770.06	1/2	1,098.73	1/2	1,439.57	1/2	1,781.41	1/2	2,123.25	1/2	2,465.10	1/2	2,806.90	1/2	3,148.75
3/4	92.97	3/4	435.27	3/4	777.18	3/4	1,105.58	3/4	1,446.69	3/4	1,788.53	3/4	2,130.38	3/4	2,472.22	3/4	2,814.02	3/4	3,155.85
5	100.08	5	442.40	5	784.30	5	1,112.44	5	1,453.82	5	1,795.66	5	2,137.50	5	2,479.34	5	2,821.14	5	3,162.95
1/4	107.21	1/4	449.52	1/4	791.31	1/4	1,119.44	1/4	1,460.94	1/4	1,802.78	1/4	2,144.62	1/4	2,486.46	1/4	2,828.26	1/4	3,170.05
1/2	114.34	1/2	456.64	1/2	798.32	1/2	1,126.45	1/2	1,468.06	1/2	1,809.90	1/2	2,151.74	1/2	2,493.58	1/2	2,835.38	1/2	3,177.15
3/4	121.46	3/4	463.77	3/4	805.32	3/4	1,133.45	3/4	1,475.18	3/4	1,817.02	3/4	2,158.86	3/4	2,500.70	3/4	2,842.50	3/4	3,184.25
6	128.59	6	470.89	6	812.33	6	1,140.46	6	1,482.30	6	1,824.14	6	2,165.99	6	2,507.82	6	2,849.62	6	3,191.34
1/4	135.73	1/4	478.01	1/4	819.18	1/4	1,147.58	1/4	1,489.42	1/4	1,831.27	1/4	2,173.11	1/4	2,514.94	1/4	2,856.74	1/4	3,198.44
1/2	142.86	1/2	485.14	1/2	826.04	1/2	1,154.70	1/2	1,496.55	1/2	1,838.39	1/2	2,180.23	1/2	2,522.06	1/2	2,863.86	1/2	3,205.54
3/4	150.00	3/4	492.26	3/4	832.90	3/4	1,161.83	3/4	1,503.67	3/4	1,845.51	3/4	2,187.35	3/4	2,529.18	3/4	2,870.98	3/4	3,212.64
7	157.13	7	499.38	7	839.75	7	1,168.95	7	1,510.79	7	1,852.63	7	2,194.47	7	2,536.30	7	2,878.10	7	3,219.74
1/4	164.26	1/4	506.50	1/4	846.57	1/4	1,176.07	1/4	1,517.91	1/4	1,859.75	1/4	2,201.59	1/4	2,543.43	1/4	2,885.22	1/4	3,226.84
1/2	171.40	1/2	513.63	1/2	853.38	1/2	1,183.19	1/2	1,525.03	1/2	1,866.87	1/2	2,208.72	1/2	2,550.55	1/2	2,892.34	1/2	3,233.94
3/4	178.53	3/4	520.75	3/4	860.20	3/4	1,190.31	3/4	1,532.15	3/4	1,874.00	3/4	2,215.84	3/4	2,557.67	3/4	2,899.47	3/4	3,241.04
8	185.67	8	527.87	8	867.02	8	1,197.43	8	1,539.28	8	1,881.12	8	2,222.96	8	2,564.79	8	2,906.59	8	3,248.14
1/4	192.80	1/4	535.00	1/4	873.83	1/4	1,204.56	1/4	1,546.40	1/4	1,888.24	1/4	2,230.08	1/4	2,571.91	1/4	2,913.71	1/4	3,255.24
1/2	199.94	1/2	542.12	1/2	880.64	1/2	1,211.68	1/2	1,553.52	1/2	1,895.36	1/2	2,237.20	1/2	2,579.03	1/2	2,920.84	1/2	3,262.34
3/4	207.07	3/4	549.24	3/4	887.45	3/4	1,218.80	3/4	1,560.64	3/4	1,902.48	3/4	2,244.32	3/4	2,586.15	3/4	2,927.97	3/4	3,269.44
9	214.21	9	556.37	9	894.26	9	1,225.92	9	1,567.76	9	1,909.60	9	2,251.45	9	2,593.27	9	2,935.10	9	3,276.54
1/4	221.34	1/4	563.49	1/4	901.07	1/4	1,233.04	1/4	1,574.88	1/4	1,916.73	1/4	2,258.57	1/4	2,600.39	1/4	2,942.23	1/4	3,283.64
1/2	228.48	1/2	570.61	1/2	907.89	1/2	1,240.16	1/2	1,582.01	1/2	1,923.85	1/2	2,265.69	1/2	2,607.51	1/2	2,949.36	1/2	3,290.74
3/4	235.61	3/4	577.73	3/4	914.70	3/4	1,247.29	3/4	1,589.13	3/4	1,930.97	3/4	2,272.81	3/4	2,614.63	3/4	2,956.49	3/4	3,297.84
10	242.74	10	584.86	10	921.51	10	1,254.41	10	1,596.25	10	1,938.09	10	2,279.93	10	2,621.75	10	2,963.63	10	3,304.94
1/4	249.88	1/4	591.98	1/4	928.32	1/4	1,261.53	1/4	1,603.37	1/4	1,945.21	1/4	2,287.05	1/4	2,628.88	1/4	2,970.76	1/4	3,312.04
1/2	257.01	1/2	599.10	1/2	935.13	1/2	1,268.65	1/2	1,610.49	1/2	1,952.33	1/2	2,294.18	1/2	2,636.00	1/2	2,977.89	1/2	3,319.15
3/4	264.15	3/4	606.23	3/4	941.95	3/4	1,275.77	3/4	1,617.61	3/4	1,959.46	3/4	2,301.30	3/4	2,643.12	3/4	2,985.02	3/4	3,326.25
11	271.28	11	613.35	11	948.76	11	1,282.89	11	1,624.74	11	1,966.58	11	2,308.42	11	2,650.24	11	2,992.16	11	3,333.35
1/4	278.42	1/4	620.47	1/4	955.57	1/4	1,290.02	1/4	1,631.86	1/4	1,973.70	1/4	2,315.54	1/4	2,657.36	1/4	2,999.29	1/4	3,339.07
1/2	285.55	1/2	627.60	1/2	962.38	1/2	1,297.14	1/2	1,638.98	1/2	1,980.82	1/2	2,322.66	1/2	2,664.48	1/2	3,006.42	1/2	3,344.79
3/4	292.69	3/4	634.72	3/4	969.19	3/4	1,304.26	3/4	1,646.10	3/4	1,987.94	3/4	2,329.78	3/4	2,671.60	3/4	3,013.55	3/4	3,350.51

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "MPX 411"

## 3 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,356.23	0	3,565.34	0	3,775.22	0	3,984.83	0	4,193.79	0	4,384.46	0		0		0		0	
1/4	3,360.56	1/4	3,569.71	1/4	3,779.59	1/4	3,989.18	1/4	4,198.15	1/4	4,386.17	1/4		1/4		1/4		1/4	
1/2	3,364.90	1/2	3,574.08	1/2	3,783.97	1/2	3,993.54	1/2	4,202.50	1/2	4,387.88	1/2		1/2		1/2		1/2	
3/4	3,369.24	3/4	3,578.45	3/4	3,788.34	3/4	3,997.89	3/4	4,206.85	3/4	4,389.59	3/4		3/4		3/4		3/4	
1	3,373.58	1	3,582.83	1	3,792.71	1	4,002.24	1	4,211.21	1	4,391.30	1		1		1		1	
1/4	3,377.93	1/4	3,587.20	1/4	3,797.08	1/4	4,006.60	1/4	4,215.56	1/4	4,393.00	1/4		1/4		1/4		1/4	
1/2	3,382.28	1/2	3,591.57	1/2	3,801.46	1/2	4,010.95	1/2	4,219.91	1/2	4,394.71	1/2		1/2		1/2		1/2	
3/4	3,386.62	3/4	3,595.94	3/4	3,805.83	3/4	4,015.30	3/4	4,224.27	3/4	4,396.42	3/4		3/4		3/4		3/4	
2	3,390.97	2	3,600.32	2	3,810.20	2	4,019.66	2	4,228.62	2	4,398.13	2		2		2		2	
1/4	3,395.33	1/4	3,604.69	1/4	3,814.57	1/4	4,024.01	1/4	4,232.97	1/4	4,399.21	1/4		1/4		1/4		1/4	
1/2	3,399.68	1/2	3,609.06	1/2	3,818.95	1/2	4,028.36	1/2	4,237.33	1/2	4,400.28	1/2		1/2		1/2		1/2	
3/4	3,404.04	3/4	3,613.43	3/4	3,823.32	3/4	4,032.72	3/4	4,241.68	3/4	4,401.36	3/4		3/4		3/4		3/4	
3	3,408.40	3	3,617.81	3	3,827.69	3	4,037.07	3	4,246.03	3	4,402.44	3		3		3		3	
1/4	3,412.75	1/4	3,622.18	1/4	3,832.06	1/4	4,041.42	1/4	4,250.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,417.11	1/2	3,626.55	1/2	3,836.44	1/2	4,045.78	1/2	4,254.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,421.47	3/4	3,630.92	3/4	3,840.81	3/4	4,050.13	3/4	4,259.09	3/4		3/4		3/4		3/4		3/4	
4	3,425.82	4	3,635.30	4	3,845.18	4	4,054.49	4	4,263.45	4		4		4		4		4	
1/4	3,430.18	1/4	3,639.67	1/4	3,849.55	1/4	4,058.84	1/4	4,267.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,434.54	1/2	3,644.04	1/2	3,853.93	1/2	4,063.19	1/2	4,272.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,438.89	3/4	3,648.42	3/4	3,858.30	3/4	4,067.55	3/4	4,276.47	3/4		3/4		3/4		3/4		3/4	
5	3,443.25	5	3,652.79	5	3,862.67	5	4,071.90	5	4,280.81	5		5		5		5		5	
1/4	3,447.61	1/4	3,657.16	1/4	3,867.05	1/4	4,076.25	1/4	4,285.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,451.96	1/2	3,661.53	1/2	3,871.42	1/2	4,080.61	1/2	4,289.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,456.32	3/4	3,665.91	3/4	3,875.79	3/4	4,084.96	3/4	4,293.79	3/4		3/4		3/4		3/4		3/4	
6	3,460.68	6	3,670.28	6	3,880.16	6	4,089.31	6	4,298.11	6		6		6		6		6	
1/4	3,465.03	1/4	3,674.65	1/4	3,884.54	1/4	4,093.67	1/4	4,302.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,469.39	1/2	3,679.02	1/2	3,888.91	1/2	4,098.02	1/2	4,306.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,473.75	3/4	3,683.40	3/4	3,893.28	3/4	4,102.37	3/4	4,311.09	3/4		3/4		3/4		3/4		3/4	
7	3,478.10	7	3,687.77	7	3,897.65	7	4,106.73	7	4,315.41	7		7		7		7		7	
1/4	3,482.46	1/4	3,692.14	1/4	3,902.03	1/4	4,111.08	1/4	4,319.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,486.82	1/2	3,696.51	1/2	3,906.40	1/2	4,115.43	1/2	4,324.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,491.17	3/4	3,700.89	3/4	3,910.77	3/4	4,119.79	3/4	4,328.36	3/4		3/4		3/4		3/4		3/4	
8	3,495.53	8	3,705.26	8	3,915.14	8	4,124.14	8	4,332.68	8		8		8		8		8	
1/4	3,499.89	1/4	3,709.63	1/4	3,919.51	1/4	4,128.49	1/4	4,336.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,504.24	1/2	3,714.00	1/2	3,923.87	1/2	4,132.85	1/2	4,341.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,508.60	3/4	3,718.38	3/4	3,928.23	3/4	4,137.20	3/4	4,345.53	3/4		3/4		3/4		3/4		3/4	
9	3,512.96	9	3,722.75	9	3,932.59	9	4,141.55	9	4,349.82	9		9		9		9		9	
1/4	3,517.32	1/4	3,727.12	1/4	3,936.94	1/4	4,145.91	1/4	4,353.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,521.67	1/2	3,731.49	1/2	3,941.30	1/2	4,150.26	1/2	4,357.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,526.03	3/4	3,735.87	3/4	3,945.65	3/4	4,154.61	3/4	4,361.35	3/4		3/4		3/4		3/4		3/4	
10	3,530.39	10	3,740.24	10	3,950.00	10	4,158.97	10	4,365.20	10		10		10		10		10	
1/4	3,534.75	1/4	3,744.61	1/4	3,954.36	1/4	4,163.32	1/4	4,368.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,539.12	1/2	3,748.99	1/2	3,958.71	1/2	4,167.67	1/2	4,370.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,543.48	3/4	3,753.36	3/4	3,963.06	3/4	4,172.03	3/4	4,373.72	3/4		3/4		3/4		3/4		3/4	
11	3,547.85	11	3,757.73	11	3,967.42	11	4,176.38	11	4,376.56	11		11		11		11		11	
1/4	3,552.22	1/4	3,762.10	1/4	3,971.77	1/4	4,180.73	1/4	4,378.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,556.59	1/2	3,766.48	1/2	3,976.12	1/2	4,185.09	1/2	4,380.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,560.96	3/4	3,770.85	3/4	3,980.48	3/4	4,189.44	3/4	4,382.49	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

# 3 STBD

# INNAGE TABLE

## 10" HATCH

## GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.36	0	641.29	0	982.96	0	1,324.68	0	1,666.62	0	2,008.57	0	2,350.51	0	2,692.30	0	3,033.37
1/4	3.93	1/4	306.48	1/4	648.42	1/4	990.07	1/4	1,331.81	1/4	1,673.75	1/4	2,015.69	1/4	2,357.63	1/4	2,699.40	1/4	3,040.48
1/2	5.71	1/2	313.61	1/2	655.54	1/2	997.18	1/2	1,338.93	1/2	1,680.87	1/2	2,022.81	1/2	2,364.76	1/2	2,706.51	1/2	3,047.58
3/4	7.49	3/4	320.73	3/4	662.66	3/4	1,004.29	3/4	1,346.05	3/4	1,688.00	3/4	2,029.94	3/4	2,371.88	3/4	2,713.62	3/4	3,054.69
1	9.27	1	327.85	1	669.79	1	1,011.40	1	1,353.18	1	1,695.12	1	2,037.06	1	2,379.00	1	2,720.72	1	3,061.80
1/4	12.83	1/4	334.98	1/4	676.91	1/4	1,018.51	1/4	1,360.30	1/4	1,702.24	1/4	2,044.19	1/4	2,386.13	1/4	2,727.83	1/4	3,068.90
1/2	16.39	1/2	342.10	1/2	684.03	1/2	1,025.62	1/2	1,367.42	1/2	1,709.37	1/2	2,051.31	1/2	2,393.25	1/2	2,734.93	1/2	3,076.01
3/4	19.95	3/4	349.22	3/4	691.16	3/4	1,032.73	3/4	1,374.55	3/4	1,716.49	3/4	2,058.43	3/4	2,400.38	3/4	2,742.04	3/4	3,083.11
2	23.52	2	356.35	2	698.28	2	1,039.84	2	1,381.67	2	1,723.61	2	2,065.56	2	2,407.50	2	2,749.14	2	3,090.22
1/4	28.86	1/4	363.47	1/4	705.40	1/4	1,046.95	1/4	1,388.80	1/4	1,730.74	1/4	2,072.68	1/4	2,414.62	1/4	2,756.25	1/4	3,097.32
1/2	34.20	1/2	370.60	1/2	712.53	1/2	1,054.05	1/2	1,395.92	1/2	1,737.86	1/2	2,079.80	1/2	2,421.75	1/2	2,763.36	1/2	3,104.43
3/4	39.54	3/4	377.72	3/4	719.65	3/4	1,061.16	3/4	1,403.04	3/4	1,744.99	3/4	2,086.93	3/4	2,428.87	3/4	2,770.46	3/4	3,111.54
3	44.88	3	384.84	3	726.78	3	1,068.27	3	1,410.17	3	1,752.11	3	2,094.05	3	2,435.99	3	2,777.57	3	3,118.64
1/4	51.54	1/4	391.97	1/4	733.90	1/4	1,075.39	1/4	1,417.29	1/4	1,759.23	1/4	2,101.18	1/4	2,443.12	1/4	2,784.67	1/4	3,125.74
1/2	58.20	1/2	399.09	1/2	741.02	1/2	1,082.50	1/2	1,424.41	1/2	1,766.36	1/2	2,108.30	1/2	2,450.24	1/2	2,791.78	1/2	3,132.83
3/4	64.86	3/4	406.21	3/4	748.15	3/4	1,089.62	3/4	1,431.54	3/4	1,773.48	3/4	2,115.42	3/4	2,457.37	3/4	2,798.88	3/4	3,139.93
4	71.52	4	413.34	4	755.27	4	1,096.73	4	1,438.66	4	1,780.60	4	2,122.55	4	2,464.49	4	2,805.99	4	3,147.03
1/4	78.62	1/4	420.46	1/4	762.39	1/4	1,103.85	1/4	1,445.79	1/4	1,787.73	1/4	2,129.67	1/4	2,471.61	1/4	2,813.10	1/4	3,154.12
1/2	85.72	1/2	427.58	1/2	769.52	1/2	1,110.97	1/2	1,452.91	1/2	1,794.85	1/2	2,136.79	1/2	2,478.74	1/2	2,820.20	1/2	3,161.20
3/4	92.82	3/4	434.71	3/4	776.64	3/4	1,118.09	3/4	1,460.03	3/4	1,801.98	3/4	2,143.92	3/4	2,485.86	3/4	2,827.31	3/4	3,168.29
5	99.92	5	441.83	5	783.76	5	1,125.21	5	1,467.16	5	1,809.10	5	2,151.04	5	2,492.98	5	2,834.41	5	3,175.38
1/4	107.04	1/4	448.95	1/4	790.89	1/4	1,132.34	1/4	1,474.28	1/4	1,816.22	1/4	2,158.17	1/4	2,500.11	1/4	2,841.52	1/4	3,182.47
1/2	114.16	1/2	456.08	1/2	798.01	1/2	1,139.46	1/2	1,481.40	1/2	1,823.35	1/2	2,165.29	1/2	2,507.24	1/2	2,848.62	1/2	3,189.56
3/4	121.28	3/4	463.20	3/4	805.13	3/4	1,146.59	3/4	1,488.53	3/4	1,830.47	3/4	2,172.41	3/4	2,514.37	3/4	2,855.73	3/4	3,196.65
6	128.40	6	470.33	6	812.26	6	1,153.71	6	1,495.65	6	1,837.59	6	2,179.54	6	2,521.50	6	2,862.84	6	3,203.73
1/4	135.52	1/4	477.45	1/4	819.38	1/4	1,160.83	1/4	1,502.78	1/4	1,844.72	1/4	2,186.66	1/4	2,528.62	1/4	2,869.94	1/4	3,210.82
1/2	142.64	1/2	484.57	1/2	826.50	1/2	1,167.96	1/2	1,509.90	1/2	1,851.84	1/2	2,193.78	1/2	2,535.75	1/2	2,877.05	1/2	3,217.91
3/4	149.76	3/4	491.70	3/4	833.62	3/4	1,175.08	3/4	1,517.02	3/4	1,858.97	3/4	2,200.91	3/4	2,542.87	3/4	2,884.15	3/4	3,225.00
7	156.89	7	498.82	7	840.75	7	1,182.21	7	1,524.15	7	1,866.09	7	2,208.03	7	2,550.00	7	2,891.26	7	3,232.09
1/4	164.01	1/4	505.94	1/4	847.86	1/4	1,189.33	1/4	1,531.27	1/4	1,873.21	1/4	2,215.16	1/4	2,557.12	1/4	2,898.36	1/4	3,239.18
1/2	171.13	1/2	513.07	1/2	854.97	1/2	1,196.45	1/2	1,538.40	1/2	1,880.34	1/2	2,222.28	1/2	2,564.24	1/2	2,905.47	1/2	3,246.27
3/4	178.26	3/4	520.19	3/4	862.09	3/4	1,203.58	3/4	1,545.52	3/4	1,887.46	3/4	2,229.40	3/4	2,571.37	3/4	2,912.58	3/4	3,253.35
8	185.38	8	527.31	8	869.20	8	1,210.70	8	1,552.64	8	1,894.59	8	2,236.53	8	2,578.49	8	2,919.68	8	3,260.44
1/4	192.51	1/4	534.44	1/4	876.31	1/4	1,217.82	1/4	1,559.77	1/4	1,901.71	1/4	2,243.65	1/4	2,585.62	1/4	2,926.79	1/4	3,267.53
1/2	199.63	1/2	541.56	1/2	883.42	1/2	1,224.95	1/2	1,566.89	1/2	1,908.83	1/2	2,250.78	1/2	2,592.74	1/2	2,933.89	1/2	3,274.62
3/4	206.75	3/4	548.69	3/4	890.53	3/4	1,232.07	3/4	1,574.01	3/4	1,915.96	3/4	2,257.90	3/4	2,599.87	3/4	2,941.00	3/4	3,281.71
9	213.88	9	555.81	9	897.64	9	1,239.20	9	1,581.14	9	1,923.08	9	2,265.02	9	2,606.99	9	2,948.10	9	3,288.80
1/4	221.00	1/4	562.93	1/4	904.75	1/4	1,246.32	1/4	1,588.26	1/4	1,930.20	1/4	2,272.15	1/4	2,614.11	1/4	2,955.21	1/4	3,295.88
1/2	228.12	1/2	570.06	1/2	911.86	1/2	1,253.44	1/2	1,595.39	1/2	1,937.33	1/2	2,279.27	1/2	2,621.22	1/2	2,962.32	1/2	3,302.97
3/4	235.25	3/4	577.18	3/4	918.97	3/4	1,260.57	3/4	1,602.51	3/4	1,944.45	3/4	2,286.39	3/4	2,628.34	3/4	2,969.42	3/4	3,310.06
10	242.37	10	584.30	10	926.08	10	1,267.69	10	1,609.63	10	1,951.58	10	2,293.52	10	2,635.45	10	2,976.53	10	3,317.15
1/4	249.49	1/4	591.43	1/4	933.19	1/4	1,274.81	1/4	1,616.76	1/4	1,958.70	1/4	2,300.64	1/4	2,642.56	1/4	2,983.63	1/4	3,324.24
1/2	256.62	1/2	598.55	1/2	940.30	1/2	1,281.94	1/2	1,623.88	1/2	1,965.82	1/2	2,307.77	1/2	2,649.66	1/2	2,990.74	1/2	3,331.33
3/4	263.74	3/4	605.67	3/4	947.41	3/4	1,289.06	3/4	1,631.00	3/4	1,972.95	3/4	2,314.89	3/4	2,656.77	3/4	2,997.84	3/4	3,338.41
11	270.86	11	612.80	11	954.52	11	1,296.19	11	1,638.13	11	1,980.07	11	2,322.01	11	2,663.88	11	3,004.95	11	3,345.50
1/4	277.99	1/4	619.92	1/4	961.63	1/4	1,303.31	1/4	1,645.25	1/4	1,987.19	1/4	2,329.14	1/4	2,670.98	1/4	3,012.06	1/4	3,352.59
1/2	285.11	1/2	627.04	1/2	968.74	1/2	1,310.43	1/2	1,652.38	1/2	1,994.32	1/2	2,336.26	1/2	2,678.09	1/2	3,019.16	1/2	3,359.67
3/4	292.24	3/4	634.17	3/4	975.85	3/4	1,317.56	3/4	1,659.50	3/4	2,001.44	3/4	2,343.38	3/4	2,685.19	3/4	3,026.27	3/4	3,366.74

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "MPX 411"

**3 STBD  
INNAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,368.35	0	3,577.84	0	3,787.56	0	3,997.00	0	4,205.79	0	4,396.32	0		0		0		0	
1/4	3,372.68	1/4	3,582.21	1/4	3,791.93	1/4	4,001.35	1/4	4,210.14	1/4	4,398.02	1/4		1/4		1/4		1/4	
1/2	3,377.01	1/2	3,586.58	1/2	3,796.29	1/2	4,005.70	1/2	4,214.49	1/2	4,399.73	1/2		1/2		1/2		1/2	
3/4	3,381.35	3/4	3,590.95	3/4	3,800.66	3/4	4,010.05	3/4	4,218.84	3/4	4,401.44	3/4		3/4		3/4		3/4	
1	3,385.68	1	3,595.32	1	3,805.03	1	4,014.40	1	4,223.19	1	4,403.14	1		1		1		1	
1/4	3,390.03	1/4	3,599.69	1/4	3,809.40	1/4	4,018.75	1/4	4,227.54	1/4	4,404.85	1/4		1/4		1/4		1/4	
1/2	3,394.38	1/2	3,604.06	1/2	3,813.77	1/2	4,023.10	1/2	4,231.89	1/2	4,406.56	1/2		1/2		1/2		1/2	
3/4	3,398.73	3/4	3,608.43	3/4	3,818.14	3/4	4,027.45	3/4	4,236.24	3/4	4,408.26	3/4		3/4		3/4		3/4	
2	3,403.08	2	3,612.80	2	3,822.51	2	4,031.80	2	4,240.59	2	4,409.97	2		2		2		2	
1/4	3,407.45	1/4	3,617.17	1/4	3,826.88	1/4	4,036.15	1/4	4,244.94	1/4	4,411.05	1/4		1/4		1/4		1/4	
1/2	3,411.82	1/2	3,621.53	1/2	3,831.25	1/2	4,040.50	1/2	4,249.29	1/2	4,412.12	1/2		1/2		1/2		1/2	
3/4	3,416.19	3/4	3,625.90	3/4	3,835.62	3/4	4,044.85	3/4	4,253.64	3/4	4,413.20	3/4		3/4		3/4		3/4	
3	3,420.56	3	3,630.27	3	3,839.98	3	4,049.20	3	4,257.99	3	4,414.27	3		3		3		3	
1/4	3,424.93	1/4	3,634.64	1/4	3,844.35	1/4	4,053.55	1/4	4,262.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,429.30	1/2	3,639.01	1/2	3,848.72	1/2	4,057.90	1/2	4,266.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,433.67	3/4	3,643.38	3/4	3,853.09	3/4	4,062.25	3/4	4,271.04	3/4		3/4		3/4		3/4		3/4	
4	3,438.04	4	3,647.75	4	3,857.46	4	4,066.60	4	4,275.39	4		4		4		4		4	
1/4	3,442.41	1/4	3,652.12	1/4	3,861.83	1/4	4,070.95	1/4	4,279.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,446.77	1/2	3,656.49	1/2	3,866.20	1/2	4,075.30	1/2	4,284.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,451.14	3/4	3,660.86	3/4	3,870.57	3/4	4,079.65	3/4	4,288.40	3/4		3/4		3/4		3/4		3/4	
5	3,455.51	5	3,665.22	5	3,874.94	5	4,084.00	5	4,292.74	5		5		5		5		5	
1/4	3,459.88	1/4	3,669.59	1/4	3,879.31	1/4	4,088.35	1/4	4,297.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,464.25	1/2	3,673.96	1/2	3,883.67	1/2	4,092.70	1/2	4,301.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,468.62	3/4	3,678.33	3/4	3,888.04	3/4	4,097.05	3/4	4,305.71	3/4		3/4		3/4		3/4		3/4	
6	3,472.99	6	3,682.70	6	3,892.41	6	4,101.40	6	4,310.03	6		6		6		6		6	
1/4	3,477.36	1/4	3,687.07	1/4	3,896.78	1/4	4,105.75	1/4	4,314.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,481.73	1/2	3,691.44	1/2	3,901.15	1/2	4,110.10	1/2	4,318.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,486.10	3/4	3,695.81	3/4	3,905.52	3/4	4,114.45	3/4	4,322.99	3/4		3/4		3/4		3/4		3/4	
7	3,490.46	7	3,700.18	7	3,909.89	7	4,118.79	7	4,327.31	7		7		7		7		7	
1/4	3,494.83	1/4	3,704.55	1/4	3,914.26	1/4	4,123.14	1/4	4,331.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,499.20	1/2	3,708.91	1/2	3,918.63	1/2	4,127.49	1/2	4,335.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,503.57	3/4	3,713.28	3/4	3,923.00	3/4	4,131.84	3/4	4,340.25	3/4		3/4		3/4		3/4		3/4	
8	3,507.94	8	3,717.65	8	3,927.36	8	4,136.19	8	4,344.57	8		8		8		8		8	
1/4	3,512.31	1/4	3,722.02	1/4	3,931.72	1/4	4,140.54	1/4	4,348.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,516.68	1/2	3,726.39	1/2	3,936.08	1/2	4,144.89	1/2	4,353.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,521.05	3/4	3,730.76	3/4	3,940.44	3/4	4,149.24	3/4	4,357.41	3/4		3/4		3/4		3/4		3/4	
9	3,525.42	9	3,735.13	9	3,944.80	9	4,153.59	9	4,361.69	9		9		9		9		9	
1/4	3,529.79	1/4	3,739.50	1/4	3,949.15	1/4	4,157.94	1/4	4,365.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,534.15	1/2	3,743.87	1/2	3,953.50	1/2	4,162.29	1/2	4,369.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,538.52	3/4	3,748.24	3/4	3,957.85	3/4	4,166.64	3/4	4,373.22	3/4		3/4		3/4		3/4		3/4	
10	3,542.89	10	3,752.60	10	3,962.20	10	4,170.99	10	4,377.06	10		10		10		10		10	
1/4	3,547.26	1/4	3,756.97	1/4	3,966.55	1/4	4,175.34	1/4	4,379.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,551.63	1/2	3,761.34	1/2	3,970.90	1/2	4,179.69	1/2	4,382.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.00	3/4	3,765.71	3/4	3,975.25	3/4	4,184.04	3/4	4,385.58	3/4		3/4		3/4		3/4		3/4	
11	3,560.37	11	3,770.08	11	3,979.60	11	4,188.39	11	4,388.41	11		11		11		11		11	
1/4	3,564.74	1/4	3,774.45	1/4	3,983.95	1/4	4,192.74	1/4	4,390.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.11	1/2	3,778.82	1/2	3,988.30	1/2	4,197.09	1/2	4,392.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.48	3/4	3,783.19	3/4	3,992.65	3/4	4,201.44	3/4	4,394.34	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## ULLAGE (10" 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	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

December 17, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "MPX 411"

## 1 PORT ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,035.49	0	4,750.34	0	4,408.97	0	4,066.75	0	3,723.81	0	3,380.93	0	3,038.09
1/4		1/4		1/4		1/4	5,033.48	1/4	4,743.22	1/4	4,401.85	1/4	4,059.60	1/4	3,716.66	1/4	3,373.79	1/4	3,030.95
1/2		1/2		1/2		1/2	5,031.47	1/2	4,736.11	1/2	4,394.74	1/2	4,052.46	1/2	3,709.52	1/2	3,366.65	1/2	3,023.80
3/4		3/4		3/4		3/4	5,029.47	3/4	4,729.00	3/4	4,387.63	3/4	4,045.31	3/4	3,702.37	3/4	3,359.51	3/4	3,016.66
1		1		1		1	5,027.46	1	4,721.89	1	4,380.52	1	4,038.17	1	3,695.23	1	3,352.36	1	3,009.52
1/4		1/4		1/4		1/4	5,024.27	1/4	4,714.78	1/4	4,373.41	1/4	4,031.02	1/4	3,688.08	1/4	3,345.22	1/4	3,002.37
1/2		1/2		1/2		1/2	5,021.07	1/2	4,707.67	1/2	4,366.29	1/2	4,023.88	1/2	3,680.94	1/2	3,338.08	1/2	2,995.23
3/4		3/4		3/4		3/4	5,017.87	3/4	4,700.55	3/4	4,359.18	3/4	4,016.73	3/4	3,673.79	3/4	3,330.94	3/4	2,988.09
2		2		2		2	5,014.68	2	4,693.44	2	4,352.07	2	4,009.59	2	3,666.65	2	3,323.79	2	2,980.94
1/4		1/4		1/4		1/4	5,010.29	1/4	4,686.33	1/4	4,344.96	1/4	4,002.44	1/4	3,659.50	1/4	3,316.65	1/4	2,973.80
1/2		1/2		1/2		1/2	5,005.90	1/2	4,679.22	1/2	4,337.85	1/2	3,995.30	1/2	3,652.36	1/2	3,309.51	1/2	2,966.65
3/4		3/4		3/4		3/4	5,001.51	3/4	4,672.11	3/4	4,330.73	3/4	3,988.16	3/4	3,645.21	3/4	3,302.37	3/4	2,959.51
3		3		3		3	4,997.12	3	4,664.99	3	4,323.62	3	3,981.01	3	3,638.07	3	3,295.22	3	2,952.36
1/4		1/4		1/4		1/4	4,991.55	1/4	4,657.88	1/4	4,316.51	1/4	3,973.87	1/4	3,630.93	1/4	3,288.08	1/4	2,945.22
1/2		1/2		1/2		1/2	4,985.97	1/2	4,650.77	1/2	4,309.40	1/2	3,966.72	1/2	3,623.78	1/2	3,280.94	1/2	2,938.07
3/4		3/4		3/4		3/4	4,980.39	3/4	4,643.66	3/4	4,302.29	3/4	3,959.58	3/4	3,616.64	3/4	3,273.80	3/4	2,930.93
4		4		4		4	4,974.81	4	4,636.55	4	4,295.17	4	3,952.43	4	3,609.50	4	3,266.65	4	2,923.79
1/4		1/4		1/4		1/4	4,968.22	1/4	4,629.43	1/4	4,288.06	1/4	3,945.29	1/4	3,602.36	1/4	3,259.51	1/4	2,916.64
1/2		1/2		1/2		1/2	4,961.64	1/2	4,622.32	1/2	4,280.95	1/2	3,938.14	1/2	3,595.21	1/2	3,252.37	1/2	2,909.50
3/4		3/4		3/4		3/4	4,955.05	3/4	4,615.21	3/4	4,273.84	3/4	3,931.00	3/4	3,588.07	3/4	3,245.23	3/4	2,902.35
5		5		5		5	4,948.47	5	4,608.10	5	4,266.73	5	3,923.85	5	3,580.93	5	3,238.08	5	2,895.21
1/4		1/4		1/4		1/4	4,941.44	1/4	4,600.99	1/4	4,259.60	1/4	3,916.71	1/4	3,573.78	1/4	3,230.94	1/4	2,888.06
1/2		1/2		1/2		1/2	4,934.42	1/2	4,593.87	1/2	4,252.47	1/2	3,909.56	1/2	3,566.64	1/2	3,223.80	1/2	2,880.92
3/4		3/4		3/4		3/4	4,927.39	3/4	4,586.76	3/4	4,245.34	3/4	3,902.42	3/4	3,559.50	3/4	3,216.65	3/4	2,873.77
6		6		6		6	4,920.36	6	4,579.65	6	4,238.22	6	3,895.28	6	3,552.36	6	3,209.51	6	2,866.63
1/4		1/4		1/4		1/4	4,913.31	1/4	4,572.54	1/4	4,231.07	1/4	3,888.13	1/4	3,545.21	1/4	3,202.37	1/4	2,859.48
1/2		1/2		1/2		1/2	4,906.25	1/2	4,565.43	1/2	4,223.93	1/2	3,880.99	1/2	3,538.07	1/2	3,195.23	1/2	2,852.34
3/4		3/4		3/4		3/4	4,899.19	3/4	4,558.32	3/4	4,216.78	3/4	3,873.84	3/4	3,530.93	3/4	3,188.08	3/4	2,845.20
7		7		7		7	4,892.13	7	4,551.20	7	4,209.64	7	3,866.70	7	3,523.79	7	3,180.94	7	2,838.05
1/4		1/4		1/4		1/4	4,885.06	1/4	4,544.09	1/4	4,202.49	1/4	3,859.55	1/4	3,516.64	1/4	3,173.80	1/4	2,830.91
1/2		1/2		1/2		1/2	4,877.99	1/2	4,536.98	1/2	4,195.35	1/2	3,852.41	1/2	3,509.50	1/2	3,166.66	1/2	2,823.76
3/4		3/4		3/4		3/4	4,870.93	3/4	4,529.87	3/4	4,188.20	3/4	3,845.26	3/4	3,502.36	3/4	3,159.51	3/4	2,816.62
8		8		8		8	4,863.86	8	4,522.76	8	4,181.06	8	3,838.12	8	3,495.22	8	3,152.37	8	2,809.47
1/4		1/4		1/4		1/4	4,856.79	1/4	4,515.64	1/4	4,173.92	1/4	3,830.97	1/4	3,488.07	1/4	3,145.23	1/4	2,802.33
1/2		1/2		1/2		1/2	4,849.73	1/2	4,508.53	1/2	4,166.77	1/2	3,823.83	1/2	3,480.93	1/2	3,138.09	1/2	2,795.18
3/4		3/4		3/4		3/4	4,842.66	3/4	4,501.42	3/4	4,159.63	3/4	3,816.69	3/4	3,473.79	3/4	3,130.94	3/4	2,788.04
9		9		9		9	4,835.59	9	4,494.31	9	4,152.48	9	3,809.54	9	3,466.65	9	3,123.80	9	2,780.90
1/4		1/4		1/4		1/4	4,828.50	1/4	4,487.20	1/4	4,145.34	1/4	3,802.40	1/4	3,459.50	1/4	3,116.66	1/4	2,773.75
1/2		1/2		1/2		1/2	4,821.41	1/2	4,480.08	1/2	4,138.19	1/2	3,795.25	1/2	3,452.36	1/2	3,109.52	1/2	2,766.61
3/4		3/4		3/4		3/4	4,814.32	3/4	4,472.97	3/4	4,131.05	3/4	3,788.11	3/4	3,445.22	3/4	3,102.37	3/4	2,759.46
10		10		10		10	4,807.23	10	4,465.86	10	4,123.90	10	3,780.96	10	3,438.08	10	3,095.23	10	2,752.32
1/4		1/4		1/4		1/4	4,800.12	1/4	4,458.75	1/4	4,116.76	1/4	3,773.82	1/4	3,430.93	1/4	3,088.09	1/4	2,745.17
1/2		1/2		1/2		1/2	4,793.01	1/2	4,451.64	1/2	4,109.61	1/2	3,766.67	1/2	3,423.79	1/2	3,080.95	1/2	2,738.03
3/4		3/4		3/4		3/4	4,785.90	3/4	4,444.52	3/4	4,102.47	3/4	3,759.53	3/4	3,416.65	3/4	3,073.80	3/4	2,730.88
11		11		11	5,039.20	11	4,778.78	11	4,437.41	11	4,095.32	11	3,752.38	11	3,409.50	11	3,066.66	11	2,723.74
1/4		1/4		1/4	5,038.27	1/4	4,771.67	1/4	4,430.30	1/4	4,088.18	1/4	3,745.24	1/4	3,402.36	1/4	3,059.52	1/4	2,716.59
1/2		1/2		1/2	5,037.34	1/2	4,764.56	1/2	4,423.19	1/2	4,081.04	1/2	3,738.09	1/2	3,395.22	1/2	3,052.37	1/2	2,709.45
3/4		3/4		3/4	5,036.41	3/4	4,757.45	3/4	4,416.08	3/4	4,073.89	3/4	3,730.95	3/4	3,388.08	3/4	3,045.23	3/4	2,702.31

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MPX 411"

## 1 PORT ULLAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,695.16	0	2,352.21	0	2,009.25	0	1,666.29	0	1,323.33	0	981.07	0	640.04	0	304.23	0	20.49	0	
1/4	2,688.02	1/4	2,345.06	1/4	2,002.10	1/4	1,659.14	1/4	1,316.18	1/4	973.99	1/4	632.89	1/4	297.66	1/4	17.69	1/4	
1/2	2,680.87	1/2	2,337.92	1/2	1,994.96	1/2	1,652.00	1/2	1,309.04	1/2	966.91	1/2	625.75	1/2	291.10	1/2	14.89	1/2	
3/4	2,673.73	3/4	2,330.77	3/4	1,987.81	3/4	1,644.85	3/4	1,301.89	3/4	959.82	3/4	618.61	3/4	284.54	3/4	12.09	3/4	
1	2,666.58	1	2,323.63	1	1,980.67	1	1,637.71	1	1,294.75	1	952.74	1	611.46	1	277.98	1	9.29	1	
1/4	2,659.44	1/4	2,316.48	1/4	1,973.52	1/4	1,630.56	1/4	1,287.60	1/4	945.65	1/4	604.32	1/4	271.51	1/4	7.51	1/4	
1/2	2,652.29	1/2	2,309.34	1/2	1,966.38	1/2	1,623.42	1/2	1,280.46	1/2	938.57	1/2	597.17	1/2	265.03	1/2	5.72	1/2	
3/4	2,645.15	3/4	2,302.19	3/4	1,959.23	3/4	1,616.27	3/4	1,273.31	3/4	931.48	3/4	590.03	3/4	258.55	3/4	3.94	3/4	
2	2,638.01	2	2,295.05	2	1,952.09	2	1,609.13	2	1,266.17	2	924.40	2	582.88	2	252.08	2	2.15	2	
1/4	2,630.86	1/4	2,287.90	1/4	1,944.94	1/4	1,601.98	1/4	1,259.02	1/4	917.31	1/4	575.74	1/4	245.68	1/4		1/4	
1/2	2,623.72	1/2	2,280.76	1/2	1,937.80	1/2	1,594.84	1/2	1,251.88	1/2	910.23	1/2	568.59	1/2	239.29	1/2		1/2	
3/4	2,616.57	3/4	2,273.61	3/4	1,930.65	3/4	1,587.69	3/4	1,244.73	3/4	903.14	3/4	561.45	3/4	232.90	3/4		3/4	
3	2,609.43	3	2,266.47	3	1,923.51	3	1,580.55	3	1,237.59	3	896.06	3	554.30	3	226.50	3		3	
1/4	2,602.28	1/4	2,259.32	1/4	1,916.36	1/4	1,573.40	1/4	1,230.44	1/4	888.98	1/4	547.16	1/4	220.19	1/4		1/4	
1/2	2,595.14	1/2	2,252.18	1/2	1,909.22	1/2	1,566.26	1/2	1,223.30	1/2	881.89	1/2	540.01	1/2	213.88	1/2		1/2	
3/4	2,587.99	3/4	2,245.03	3/4	1,902.07	3/4	1,559.11	3/4	1,216.15	3/4	874.81	3/4	532.87	3/4	207.57	3/4		3/4	
4	2,580.85	4	2,237.89	4	1,894.93	4	1,551.97	4	1,209.01	4	867.72	4	525.72	4	201.26	4		4	
1/4	2,573.70	1/4	2,230.74	1/4	1,887.78	1/4	1,544.82	1/4	1,201.86	1/4	860.64	1/4	518.58	1/4	195.04	1/4		1/4	
1/2	2,566.56	1/2	2,223.60	1/2	1,880.64	1/2	1,537.68	1/2	1,194.72	1/2	853.55	1/2	511.43	1/2	188.81	1/2		1/2	
3/4	2,559.41	3/4	2,216.45	3/4	1,873.49	3/4	1,530.53	3/4	1,187.57	3/4	846.47	3/4	504.29	3/4	182.58	3/4		3/4	
5	2,552.27	5	2,209.31	5	1,866.35	5	1,523.39	5	1,180.43	5	839.38	5	497.14	5	176.36	5		5	
1/4	2,545.12	1/4	2,202.16	1/4	1,859.20	1/4	1,516.24	1/4	1,173.28	1/4	832.30	1/4	490.02	1/4	170.21	1/4		1/4	
1/2	2,537.98	1/2	2,195.02	1/2	1,852.06	1/2	1,509.10	1/2	1,166.14	1/2	825.22	1/2	482.90	1/2	164.07	1/2		1/2	
3/4	2,530.83	3/4	2,187.87	3/4	1,844.91	3/4	1,501.95	3/4	1,158.99	3/4	818.13	3/4	475.78	3/4	157.93	3/4		3/4	
6	2,523.69	6	2,180.73	6	1,837.77	6	1,494.81	6	1,151.85	6	811.05	6	468.66	6	151.78	6		6	
1/4	2,516.54	1/4	2,173.58	1/4	1,830.62	1/4	1,487.66	1/4	1,144.70	1/4	803.96	1/4	461.60	1/4	145.72	1/4		1/4	
1/2	2,509.40	1/2	2,166.44	1/2	1,823.48	1/2	1,480.52	1/2	1,137.56	1/2	796.87	1/2	454.55	1/2	139.67	1/2		1/2	
3/4	2,502.25	3/4	2,159.29	3/4	1,816.33	3/4	1,473.37	3/4	1,130.41	3/4	789.78	3/4	447.49	3/4	133.61	3/4		3/4	
7	2,495.11	7	2,152.15	7	1,809.19	7	1,466.23	7	1,123.27	7	782.69	7	440.43	7	127.55	7		7	
1/4	2,487.96	1/4	2,145.00	1/4	1,802.04	1/4	1,459.08	1/4	1,116.12	1/4	775.59	1/4	433.46	1/4	121.57	1/4		1/4	
1/2	2,480.82	1/2	2,137.86	1/2	1,794.90	1/2	1,451.94	1/2	1,108.98	1/2	768.49	1/2	426.48	1/2	115.60	1/2		1/2	
3/4	2,473.67	3/4	2,130.71	3/4	1,787.75	3/4	1,444.79	3/4	1,101.83	3/4	761.39	3/4	419.51	3/4	109.62	3/4		3/4	
8	2,466.53	8	2,123.57	8	1,780.61	8	1,437.65	8	1,094.69	8	754.29	8	412.53	8	103.64	8		8	
1/4	2,459.38	1/4	2,116.42	1/4	1,773.46	1/4	1,430.50	1/4	1,087.56	1/4	747.16	1/4	405.64	1/4	97.76	1/4		1/4	
1/2	2,452.24	1/2	2,109.28	1/2	1,766.32	1/2	1,423.36	1/2	1,080.43	1/2	740.03	1/2	398.74	1/2	91.87	1/2		1/2	
3/4	2,445.09	3/4	2,102.13	3/4	1,759.17	3/4	1,416.21	3/4	1,073.30	3/4	732.90	3/4	391.85	3/4	85.98	3/4		3/4	
9	2,437.95	9	2,094.99	9	1,752.03	9	1,409.07	9	1,066.17	9	725.78	9	384.95	9	80.10	9		9	
1/4	2,430.80	1/4	2,087.84	1/4	1,744.88	1/4	1,401.92	1/4	1,059.07	1/4	718.63	1/4	378.14	1/4	74.31	1/4		1/4	
1/2	2,423.66	1/2	2,080.70	1/2	1,737.74	1/2	1,394.78	1/2	1,051.97	1/2	711.49	1/2	371.33	1/2	68.53	1/2		1/2	
3/4	2,416.51	3/4	2,073.55	3/4	1,730.59	3/4	1,387.63	3/4	1,044.87	3/4	704.34	3/4	364.52	3/4	62.74	3/4		3/4	
10	2,409.37	10	2,066.41	10	1,723.45	10	1,380.49	10	1,037.77	10	697.20	10	357.71	10	56.96	10		10	
1/4	2,402.22	1/4	2,059.26	1/4	1,716.30	1/4	1,373.34	1/4	1,030.68	1/4	690.05	1/4	350.98	1/4	51.70	1/4		1/4	
1/2	2,395.08	1/2	2,052.12	1/2	1,709.16	1/2	1,366.20	1/2	1,023.59	1/2	682.91	1/2	344.26	1/2	46.43	1/2		1/2	
3/4	2,387.93	3/4	2,044.97	3/4	1,702.01	3/4	1,359.05	3/4	1,016.50	3/4	675.76	3/4	337.53	3/4	41.17	3/4		3/4	
11	2,380.79	11	2,037.83	11	1,694.87	11	1,351.91	11	1,009.41	11	668.62	11	330.80	11	35.91	11		11	
1/4	2,373.64	1/4	2,030.68	1/4	1,687.72	1/4	1,344.76	1/4	1,002.33	1/4	661.47	1/4	324.16	1/4	32.06	1/4		1/4	
1/2	2,366.50	1/2	2,023.54	1/2	1,680.58	1/2	1,337.62	1/2	995.24	1/2	654.33	1/2	317.51	1/2	28.20	1/2		1/2	
3/4	2,359.35	3/4	2,016.39	3/4	1,673.43	3/4	1,330.47	3/4	988.16	3/4	647.18	3/4	310.87	3/4	24.35	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 1 STBD ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,034.43	0	4,749.48	0	4,408.34	0	4,066.35	0	3,723.64	0	3,381.00	0	3,038.38
1/4		1/4		1/4		1/4	5,032.42	1/4	4,742.37	1/4	4,401.23	1/4	4,059.21	1/4	3,716.50	1/4	3,373.86	1/4	3,031.24
1/2		1/2		1/2		1/2	5,030.42	1/2	4,735.26	1/2	4,394.12	1/2	4,052.07	1/2	3,709.36	1/2	3,366.72	1/2	3,024.11
3/4		3/4		3/4		3/4	5,028.41	3/4	4,728.15	3/4	4,387.01	3/4	4,044.93	3/4	3,702.22	3/4	3,359.58	3/4	3,016.97
1		1		1		1	5,026.41	1	4,721.05	1	4,379.91	1	4,037.79	1	3,695.08	1	3,352.44	1	3,009.83
1/4		1/4		1/4		1/4	5,023.22	1/4	4,713.94	1/4	4,372.80	1/4	4,030.65	1/4	3,687.94	1/4	3,345.31	1/4	3,002.69
1/2		1/2		1/2		1/2	5,020.02	1/2	4,706.83	1/2	4,365.69	1/2	4,023.51	1/2	3,680.80	1/2	3,338.17	1/2	2,995.55
3/4		3/4		3/4		3/4	5,016.83	3/4	4,699.73	3/4	4,358.59	3/4	4,016.37	3/4	3,673.66	3/4	3,331.03	3/4	2,988.41
2		2		2		2	5,013.63	2	4,692.62	2	4,351.48	2	4,009.23	2	3,666.52	2	3,323.89	2	2,981.27
1/4		1/4		1/4		1/4	5,009.25	1/4	4,685.51	1/4	4,344.37	1/4	4,002.09	1/4	3,659.38	1/4	3,316.76	1/4	2,974.13
1/2		1/2		1/2		1/2	5,004.86	1/2	4,678.41	1/2	4,337.26	1/2	3,994.95	1/2	3,652.24	1/2	3,309.62	1/2	2,966.99
3/4		3/4		3/4		3/4	5,000.48	3/4	4,671.30	3/4	4,330.16	3/4	3,987.81	3/4	3,645.10	3/4	3,302.48	3/4	2,959.85
3		3		3		3	4,996.09	3	4,664.19	3	4,323.05	3	3,980.67	3	3,637.96	3	3,295.34	3	2,952.71
1/4		1/4		1/4		1/4	4,990.52	1/4	4,657.08	1/4	4,315.94	1/4	3,973.53	1/4	3,630.82	1/4	3,288.20	1/4	2,945.57
1/2		1/2		1/2		1/2	4,984.94	1/2	4,649.98	1/2	4,308.84	1/2	3,966.39	1/2	3,623.68	1/2	3,281.07	1/2	2,938.43
3/4		3/4		3/4		3/4	4,979.37	3/4	4,642.87	3/4	4,301.73	3/4	3,959.25	3/4	3,616.54	3/4	3,273.93	3/4	2,931.29
4		4		4		4	4,973.79	4	4,635.76	4	4,294.62	4	3,952.11	4	3,609.40	4	3,266.79	4	2,924.15
1/4		1/4		1/4		1/4	4,967.21	1/4	4,628.66	1/4	4,287.51	1/4	3,944.97	1/4	3,602.27	1/4	3,259.65	1/4	2,917.01
1/2		1/2		1/2		1/2	4,960.63	1/2	4,621.55	1/2	4,280.41	1/2	3,937.83	1/2	3,595.13	1/2	3,252.51	1/2	2,909.87
3/4		3/4		3/4		3/4	4,954.05	3/4	4,614.44	3/4	4,273.30	3/4	3,930.69	3/4	3,587.99	3/4	3,245.38	3/4	2,902.73
5		5		5		5	4,947.47	5	4,607.33	5	4,266.19	5	3,923.55	5	3,580.85	5	3,238.24	5	2,895.59
1/4		1/4		1/4		1/4	4,940.45	1/4	4,600.23	1/4	4,259.07	1/4	3,916.41	1/4	3,573.72	1/4	3,231.10	1/4	2,888.46
1/2		1/2		1/2		1/2	4,933.43	1/2	4,593.12	1/2	4,251.95	1/2	3,909.27	1/2	3,566.58	1/2	3,223.96	1/2	2,881.32
3/4		3/4		3/4		3/4	4,926.41	3/4	4,586.01	3/4	4,244.82	3/4	3,902.13	3/4	3,559.44	3/4	3,216.83	3/4	2,874.18
6		6		6		6	4,919.39	6	4,578.91	6	4,237.70	6	3,894.99	6	3,552.30	6	3,209.69	6	2,867.04
1/4		1/4		1/4		1/4	4,912.33	1/4	4,571.80	1/4	4,230.56	1/4	3,887.85	1/4	3,545.16	1/4	3,202.55	1/4	2,859.90
1/2		1/2		1/2		1/2	4,905.28	1/2	4,564.69	1/2	4,223.42	1/2	3,880.71	1/2	3,538.03	1/2	3,195.41	1/2	2,852.76
3/4		3/4		3/4		3/4	4,898.22	3/4	4,557.58	3/4	4,216.28	3/4	3,873.57	3/4	3,530.89	3/4	3,188.27	3/4	2,845.62
7		7		7		7	4,891.17	7	4,550.48	7	4,209.14	7	3,866.43	7	3,523.75	7	3,181.14	7	2,838.48
1/4		1/4		1/4		1/4	4,884.11	1/4	4,543.37	1/4	4,202.00	1/4	3,859.29	1/4	3,516.61	1/4	3,174.00	1/4	2,831.34
1/2		1/2		1/2		1/2	4,877.05	1/2	4,536.26	1/2	4,194.86	1/2	3,852.15	1/2	3,509.48	1/2	3,166.86	1/2	2,824.20
3/4		3/4		3/4		3/4	4,869.98	3/4	4,529.16	3/4	4,187.72	3/4	3,845.01	3/4	3,502.34	3/4	3,159.72	3/4	2,817.06
8		8		8		8	4,862.92	8	4,522.05	8	4,180.58	8	3,837.87	8	3,495.20	8	3,152.59	8	2,809.92
1/4		1/4		1/4		1/4	4,855.86	1/4	4,514.94	1/4	4,173.44	1/4	3,830.73	1/4	3,488.06	1/4	3,145.45	1/4	2,802.78
1/2		1/2		1/2		1/2	4,848.80	1/2	4,507.83	1/2	4,166.30	1/2	3,823.59	1/2	3,480.92	1/2	3,138.31	1/2	2,795.64
3/4		3/4		3/4		3/4	4,841.74	3/4	4,500.73	3/4	4,159.16	3/4	3,816.45	3/4	3,473.79	3/4	3,131.17	3/4	2,788.50
9		9		9		9	4,834.67	9	4,493.62	9	4,152.02	9	3,809.31	9	3,466.65	9	3,124.03	9	2,781.36
1/4		1/4		1/4		1/4	4,827.59	1/4	4,486.51	1/4	4,144.88	1/4	3,802.17	1/4	3,459.51	1/4	3,116.90	1/4	2,774.22
1/2		1/2		1/2		1/2	4,820.50	1/2	4,479.41	1/2	4,137.74	1/2	3,795.03	1/2	3,452.37	1/2	3,109.76	1/2	2,767.08
3/4		3/4		3/4		3/4	4,813.42	3/4	4,472.30	3/4	4,130.60	3/4	3,787.89	3/4	3,445.24	3/4	3,102.62	3/4	2,759.94
10		10		10		10	4,806.33	10	4,465.19	10	4,123.46	10	3,780.75	10	3,438.10	10	3,095.48	10	2,752.80
1/4		1/4		1/4		1/4	4,799.23	1/4	4,458.08	1/4	4,116.32	1/4	3,773.61	1/4	3,430.96	1/4	3,088.35	1/4	2,745.66
1/2		1/2		1/2		1/2	4,792.12	1/2	4,450.98	1/2	4,109.18	1/2	3,766.47	1/2	3,423.82	1/2	3,081.21	1/2	2,738.52
3/4		3/4		3/4		3/4	4,785.01	3/4	4,443.87	3/4	4,102.04	3/4	3,759.33	3/4	3,416.68	3/4	3,074.07	3/4	2,731.38
11		11		11	5,038.14	11	4,777.90	11	4,436.76	11	4,094.91	11	3,752.19	11	3,409.55	11	3,066.93	11	2,724.24
1/4		1/4		1/4	5,037.21	1/4	4,770.80	1/4	4,429.66	1/4	4,087.77	1/4	3,745.06	1/4	3,402.41	1/4	3,059.79	1/4	2,717.10
1/2		1/2		1/2	5,036.28	1/2	4,763.69	1/2	4,422.55	1/2	4,080.63	1/2	3,737.92	1/2	3,395.27	1/2	3,052.66	1/2	2,709.96
3/4		3/4		3/4	5,035.36	3/4	4,756.58	3/4	4,415.44	3/4	4,073.49	3/4	3,730.78	3/4	3,388.13	3/4	3,045.52	3/4	2,702.82

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MPX 411"

1 STBD  
ULLAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,695.68	0	2,352.96	0	2,010.23	0	1,667.50	0	1,324.77	0	982.10	0	639.61	0	303.98	0	20.48	0	
1/4	2,688.54	1/4	2,345.82	1/4	2,003.09	1/4	1,660.36	1/4	1,317.63	1/4	974.96	1/4	632.47	1/4	297.43	1/4	17.69	1/4	
1/2	2,681.40	1/2	2,338.68	1/2	1,995.95	1/2	1,653.22	1/2	1,310.49	1/2	967.83	1/2	625.33	1/2	290.87	1/2	14.89	1/2	
3/4	2,674.26	3/4	2,331.54	3/4	1,988.81	3/4	1,646.08	3/4	1,303.35	3/4	960.70	3/4	618.19	3/4	284.32	3/4	12.09	3/4	
1	2,667.12	1	2,324.40	1	1,981.67	1	1,638.94	1	1,296.21	1	953.57	1	611.05	1	277.76	1	9.29	1	
1/4	2,659.98	1/4	2,317.26	1/4	1,974.53	1/4	1,631.80	1/4	1,289.07	1/4	946.44	1/4	603.91	1/4	271.29	1/4	7.51	1/4	
1/2	2,652.84	1/2	2,310.12	1/2	1,967.39	1/2	1,624.66	1/2	1,281.93	1/2	939.31	1/2	596.77	1/2	264.82	1/2	5.72	1/2	
3/4	2,645.71	3/4	2,302.98	3/4	1,960.25	3/4	1,617.52	3/4	1,274.79	3/4	932.18	3/4	589.63	3/4	258.35	3/4	3.94	3/4	
2	2,638.57	2	2,295.84	2	1,953.11	2	1,610.38	2	1,267.65	2	925.04	2	582.49	2	251.87	2	2.15	2	
1/4	2,631.43	1/4	2,288.70	1/4	1,945.97	1/4	1,603.24	1/4	1,260.51	1/4	917.91	1/4	575.35	1/4	245.49	1/4		1/4	
1/2	2,624.29	1/2	2,281.56	1/2	1,938.83	1/2	1,596.10	1/2	1,253.37	1/2	910.78	1/2	568.21	1/2	239.10	1/2		1/2	
3/4	2,617.15	3/4	2,274.42	3/4	1,931.69	3/4	1,588.96	3/4	1,246.23	3/4	903.65	3/4	561.07	3/4	232.71	3/4		3/4	
3	2,610.01	3	2,267.28	3	1,924.55	3	1,581.82	3	1,239.09	3	896.52	3	553.93	3	226.32	3		3	
1/4	2,602.87	1/4	2,260.14	1/4	1,917.41	1/4	1,574.68	1/4	1,231.95	1/4	889.39	1/4	546.79	1/4	220.01	1/4		1/4	
1/2	2,595.73	1/2	2,253.00	1/2	1,910.27	1/2	1,567.54	1/2	1,224.81	1/2	882.26	1/2	539.65	1/2	213.71	1/2		1/2	
3/4	2,588.58	3/4	2,245.86	3/4	1,903.13	3/4	1,560.40	3/4	1,217.67	3/4	875.13	3/4	532.51	3/4	207.40	3/4		3/4	
4	2,581.44	4	2,238.72	4	1,895.99	4	1,553.26	4	1,210.53	4	867.99	4	525.37	4	201.10	4		4	
1/4	2,574.30	1/4	2,231.58	1/4	1,888.85	1/4	1,546.12	1/4	1,203.39	1/4	860.86	1/4	518.23	1/4	194.88	1/4		1/4	
1/2	2,567.16	1/2	2,224.43	1/2	1,881.71	1/2	1,538.98	1/2	1,196.25	1/2	853.73	1/2	511.09	1/2	188.66	1/2		1/2	
3/4	2,560.02	3/4	2,217.29	3/4	1,874.57	3/4	1,531.84	3/4	1,189.11	3/4	846.60	3/4	503.95	3/4	182.43	3/4		3/4	
5	2,552.88	5	2,210.15	5	1,867.42	5	1,524.70	5	1,181.97	5	839.47	5	496.81	5	176.21	5		5	
1/4	2,545.74	1/4	2,203.01	1/4	1,860.28	1/4	1,517.56	1/4	1,174.83	1/4	832.34	1/4	489.69	1/4	170.08	1/4		1/4	
1/2	2,538.60	1/2	2,195.87	1/2	1,853.14	1/2	1,510.41	1/2	1,167.69	1/2	825.21	1/2	482.57	1/2	163.94	1/2		1/2	
3/4	2,531.46	3/4	2,188.73	3/4	1,846.00	3/4	1,503.27	3/4	1,160.55	3/4	818.08	3/4	475.45	3/4	157.80	3/4		3/4	
6	2,524.32	6	2,181.59	6	1,838.86	6	1,496.13	6	1,153.40	6	810.95	6	468.33	6	151.66	6		6	
1/4	2,517.18	1/4	2,174.45	1/4	1,831.72	1/4	1,488.99	1/4	1,146.26	1/4	803.81	1/4	461.27	1/4	145.61	1/4		1/4	
1/2	2,510.04	1/2	2,167.31	1/2	1,824.58	1/2	1,481.85	1/2	1,139.12	1/2	796.68	1/2	454.22	1/2	139.55	1/2		1/2	
3/4	2,502.90	3/4	2,160.17	3/4	1,817.44	3/4	1,474.71	3/4	1,131.98	3/4	789.54	3/4	447.16	3/4	133.50	3/4		3/4	
7	2,495.76	7	2,153.03	7	1,810.30	7	1,467.57	7	1,124.84	7	782.40	7	440.10	7	127.44	7		7	
1/4	2,488.62	1/4	2,145.89	1/4	1,803.16	1/4	1,460.43	1/4	1,117.70	1/4	775.27	1/4	433.13	1/4	121.47	1/4		1/4	
1/2	2,481.48	1/2	2,138.75	1/2	1,796.02	1/2	1,453.29	1/2	1,110.56	1/2	768.13	1/2	426.16	1/2	115.50	1/2		1/2	
3/4	2,474.34	3/4	2,131.61	3/4	1,788.88	3/4	1,446.15	3/4	1,103.42	3/4	760.99	3/4	419.19	3/4	109.53	3/4		3/4	
8	2,467.20	8	2,124.47	8	1,781.74	8	1,439.01	8	1,096.28	8	753.85	8	412.21	8	103.56	8		8	
1/4	2,460.06	1/4	2,117.33	1/4	1,774.60	1/4	1,431.87	1/4	1,089.14	1/4	746.71	1/4	405.32	1/4	97.68	1/4		1/4	
1/2	2,452.92	1/2	2,110.19	1/2	1,767.46	1/2	1,424.73	1/2	1,082.00	1/2	739.57	1/2	398.43	1/2	91.80	1/2		1/2	
3/4	2,445.78	3/4	2,103.05	3/4	1,760.32	3/4	1,417.59	3/4	1,074.86	3/4	732.43	3/4	391.54	3/4	85.92	3/4		3/4	
9	2,438.64	9	2,095.91	9	1,753.18	9	1,410.45	9	1,067.72	9	725.29	9	384.65	9	80.03	9		9	
1/4	2,431.50	1/4	2,088.77	1/4	1,746.04	1/4	1,403.31	1/4	1,060.58	1/4	718.15	1/4	377.85	1/4	74.25	1/4		1/4	
1/2	2,424.36	1/2	2,081.63	1/2	1,738.90	1/2	1,396.17	1/2	1,053.44	1/2	711.01	1/2	371.04	1/2	68.47	1/2		1/2	
3/4	2,417.22	3/4	2,074.49	3/4	1,731.76	3/4	1,389.03	3/4	1,046.30	3/4	703.87	3/4	364.24	3/4	62.69	3/4		3/4	
10	2,410.08	10	2,067.35	10	1,724.62	10	1,381.89	10	1,039.16	10	696.73	10	357.43	10	56.91	10		10	
1/4	2,402.94	1/4	2,060.21	1/4	1,717.48	1/4	1,374.75	1/4	1,032.03	1/4	689.59	1/4	350.71	1/4	51.66	1/4		1/4	
1/2	2,395.80	1/2	2,053.07	1/2	1,710.34	1/2	1,367.61	1/2	1,024.89	1/2	682.45	1/2	343.99	1/2	46.40	1/2		1/2	
3/4	2,388.66	3/4	2,045.93	3/4	1,703.20	3/4	1,360.47	3/4	1,017.76	3/4	675.31	3/4	337.26	3/4	41.14	3/4		3/4	
11	2,381.52	11	2,038.79	11	1,696.06	11	1,353.33	11	1,010.62	11	668.17	11	330.54	11	35.89	11		11	
1/4	2,374.38	1/4	2,031.65	1/4	1,688.92	1/4	1,346.19	1/4	1,003.49	1/4	661.03	1/4	323.90	1/4	32.04	1/4		1/4	
1/2	2,367.24	1/2	2,024.51	1/2	1,681.78	1/2	1,339.05	1/2	996.36	1/2	653.89	1/2	317.26	1/2	28.19	1/2		1/2	
3/4	2,360.10	3/4	2,017.37	3/4	1,674.64	3/4	1,331.91	3/4	989.23	3/4	646.75	3/4	310.62	3/4	24.33	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 2 PORT ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,096.72	0	4,810.92	0	4,468.75	0	4,125.72	0	3,781.98	0	3,438.23	0	3,094.49
1/4		1/4		1/4		1/4	5,094.71	1/4	4,803.80	1/4	4,461.62	1/4	4,118.56	1/4	3,774.81	1/4	3,431.07	1/4	3,087.33
1/2		1/2		1/2		1/2	5,092.70	1/2	4,796.67	1/2	4,454.49	1/2	4,111.39	1/2	3,767.65	1/2	3,423.91	1/2	3,080.17
3/4		3/4		3/4		3/4	5,090.69	3/4	4,789.54	3/4	4,447.36	3/4	4,104.23	3/4	3,760.49	3/4	3,416.75	3/4	3,073.01
1		1		1		1	4,782.41	1	4,440.23	1	4,097.07	1	3,753.33	1	3,409.59	1	3,065.85		
1/4		1/4		1/4		1/4	5,085.48	1/4	4,775.28	1/4	4,433.10	1/4	4,089.91	1/4	3,746.17	1/4	3,402.43	1/4	3,058.69
1/2		1/2		1/2		1/2	5,082.27	1/2	4,768.15	1/2	4,425.97	1/2	4,082.75	1/2	3,739.01	1/2	3,395.26	1/2	3,051.53
3/4		3/4		3/4		3/4	5,079.07	3/4	4,761.02	3/4	4,418.85	3/4	4,075.59	3/4	3,731.85	3/4	3,388.10	3/4	3,044.37
2		2		2		2	5,075.87	2	4,753.89	2	4,411.72	2	4,068.43	2	3,724.68	2	3,380.94	2	3,037.22
1/4		1/4		1/4		1/4	5,071.47	1/4	4,746.77	1/4	4,404.59	1/4	4,061.27	1/4	3,717.52	1/4	3,373.78	1/4	3,030.05
1/2		1/2		1/2		1/2	5,067.07	1/2	4,739.64	1/2	4,397.46	1/2	4,054.10	1/2	3,710.36	1/2	3,366.62	1/2	3,022.89
3/4		3/4		3/4		3/4	5,062.67	3/4	4,732.51	3/4	4,390.33	3/4	4,046.94	3/4	3,703.20	3/4	3,359.46	3/4	3,015.73
3		3		3		3	5,058.28	3	4,725.38	3	4,383.20	3	4,039.78	3	3,696.04	3	3,352.30	3	3,008.56
1/4		1/4		1/4		1/4	5,052.69	1/4	4,718.25	1/4	4,376.07	1/4	4,032.62	1/4	3,688.88	1/4	3,345.14	1/4	3,001.40
1/2		1/2		1/2		1/2	5,047.09	1/2	4,711.12	1/2	4,368.94	1/2	4,025.46	1/2	3,681.72	1/2	3,337.97	1/2	2,994.24
3/4		3/4		3/4		3/4	5,041.50	3/4	4,703.99	3/4	4,361.82	3/4	4,018.30	3/4	3,674.56	3/4	3,330.81	3/4	2,987.07
4		4		4		4	5,035.91	4	4,696.87	4	4,354.69	4	4,011.14	4	3,667.39	4	3,323.65	4	2,979.91
1/4		1/4		1/4		1/4	5,029.31	1/4	4,689.74	1/4	4,347.56	1/4	4,003.98	1/4	3,660.23	1/4	3,316.49	1/4	2,972.74
1/2		1/2		1/2		1/2	5,022.71	1/2	4,682.61	1/2	4,340.43	1/2	3,996.81	1/2	3,653.07	1/2	3,309.33	1/2	2,965.58
3/4		3/4		3/4		3/4	5,016.11	3/4	4,675.48	3/4	4,333.30	3/4	3,989.65	3/4	3,645.91	3/4	3,302.17	3/4	2,958.42
5		5		5		5	5,009.51	5	4,668.35	5	4,326.17	5	3,982.49	5	3,638.75	5	3,295.01	5	2,951.25
1/4		1/4		1/4		1/4	5,002.46	1/4	4,661.22	1/4	4,319.03	1/4	3,975.33	1/4	3,631.59	1/4	3,287.85	1/4	2,944.09
1/2		1/2		1/2		1/2	4,995.42	1/2	4,654.09	1/2	4,311.88	1/2	3,968.17	1/2	3,624.43	1/2	3,280.68	1/2	2,936.93
3/4		3/4		3/4		3/4	4,988.38	3/4	4,646.96	3/4	4,304.73	3/4	3,961.01	3/4	3,617.27	3/4	3,273.52	3/4	2,929.76
6		6		6		6	4,981.34	6	4,639.84	6	4,297.59	6	3,953.85	6	3,610.10	6	3,266.36	6	2,922.60
1/4		1/4		1/4		1/4	4,974.26	1/4	4,632.71	1/4	4,290.43	1/4	3,946.69	1/4	3,602.94	1/4	3,259.20	1/4	2,915.44
1/2		1/2		1/2		1/2	4,967.19	1/2	4,625.58	1/2	4,283.27	1/2	3,939.52	1/2	3,595.78	1/2	3,252.04	1/2	2,908.27
3/4		3/4		3/4		3/4	4,960.11	3/4	4,618.45	3/4	4,276.10	3/4	3,932.36	3/4	3,588.62	3/4	3,244.88	3/4	2,901.11
7		7		7		7	4,953.04	7	4,611.32	7	4,268.94	7	3,925.20	7	3,581.46	7	3,237.72	7	2,893.95
1/4		1/4		1/4		1/4	4,945.96	1/4	4,604.19	1/4	4,261.78	1/4	3,918.04	1/4	3,574.30	1/4	3,230.56	1/4	2,886.78
1/2		1/2		1/2		1/2	4,938.87	1/2	4,597.06	1/2	4,254.62	1/2	3,910.88	1/2	3,567.14	1/2	3,223.39	1/2	2,879.62
3/4		3/4		3/4		3/4	4,931.79	3/4	4,589.93	3/4	4,247.46	3/4	3,903.72	3/4	3,559.97	3/4	3,216.23	3/4	2,872.46
8		8		8		8	4,924.71	8	4,582.81	8	4,240.30	8	3,896.56	8	3,552.81	8	3,209.07	8	2,865.29
1/4		1/4		1/4		1/4	4,917.63	1/4	4,575.68	1/4	4,233.14	1/4	3,889.39	1/4	3,545.65	1/4	3,201.91	1/4	2,858.13
1/2		1/2		1/2		1/2	4,910.54	1/2	4,568.55	1/2	4,225.98	1/2	3,882.23	1/2	3,538.49	1/2	3,194.75	1/2	2,850.97
3/4		3/4		3/4		3/4	4,903.46	3/4	4,561.42	3/4	4,218.81	3/4	3,875.07	3/4	3,531.33	3/4	3,187.59	3/4	2,843.80
9		9		9		9	4,896.37	9	4,554.29	9	4,211.65	9	3,867.91	9	3,524.17	9	3,180.43	9	2,836.64
1/4		1/4		1/4		1/4	4,889.27	1/4	4,547.16	1/4	4,204.49	1/4	3,860.75	1/4	3,517.01	1/4	3,173.26	1/4	2,829.48
1/2		1/2		1/2		1/2	4,882.16	1/2	4,540.03	1/2	4,197.33	1/2	3,853.59	1/2	3,509.85	1/2	3,166.10	1/2	2,822.31
3/4		3/4		3/4		3/4	4,875.06	3/4	4,532.91	3/4	4,190.17	3/4	3,846.43	3/4	3,502.68	3/4	3,158.94	3/4	2,815.15
10		10		10		10	4,867.95	10	4,525.78	10	4,183.01	10	3,839.27	10	3,495.52	10	3,151.78	10	2,807.99
1/4		1/4		1/4		1/4	4,860.83	1/4	4,518.65	1/4	4,175.85	1/4	3,832.10	1/4	3,488.36	1/4	3,144.62	1/4	2,800.82
1/2		1/2		1/2		1/2	4,853.70	1/2	4,511.52	1/2	4,168.69	1/2	3,824.94	1/2	3,481.20	1/2	3,137.46	1/2	2,793.66
3/4		3/4		3/4		3/4	4,846.57	3/4	4,504.39	3/4	4,161.52	3/4	3,817.78	3/4	3,474.04	3/4	3,130.30	3/4	2,786.50
11		11		11	5,100.44	11	4,839.44	11	4,497.26	11	4,154.36	11	3,810.62	11	3,466.88	11	3,123.14	11	2,779.33
1/4		1/4		1/4	5,099.51	1/4	4,832.31	1/4	4,490.13	1/4	4,147.20	1/4	3,803.46	1/4	3,459.72	1/4	3,115.97	1/4	2,772.17
1/2		1/2		1/2	5,098.58	1/2	4,825.18	1/2	4,483.00	1/2	4,140.04	1/2	3,796.30	1/2	3,452.56	1/2	3,108.81	1/2	2,765.01
3/4		3/4		3/4	5,097.65	3/4	4,818.05	3/4	4,475.88	3/4	4,132.88	3/4	3,789.14	3/4	3,445.39	3/4	3,101.65	3/4	2,757.84

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MPX 411"

## 2 PORT ULLAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,750.68	0	2,406.84	0	2,062.99	0	1,719.15	0	1,375.31	0	1,035.64	0	702.15	0	358.32	0	23.65	0	
1/4	2,743.52	1/4	2,399.67	1/4	2,055.83	1/4	1,711.99	1/4	1,368.14	1/4	1,028.79	1/4	694.99	1/4	351.16	1/4	20.07	1/4	
1/2	2,736.35	1/2	2,392.51	1/2	2,048.67	1/2	1,704.82	1/2	1,360.98	1/2	1,021.93	1/2	687.83	1/2	344.00	1/2	16.49	1/2	
3/4	2,729.19	3/4	2,385.35	3/4	2,041.50	3/4	1,697.66	3/4	1,353.82	3/4	1,015.08	3/4	680.66	3/4	336.84	3/4	12.90	3/4	
1	2,722.03	1	2,378.18	1	2,034.34	1	1,690.50	1	1,346.65	1	1,008.22	1	673.50	1	329.67	1	9.32	1	
1/4	2,714.86	1/4	2,371.02	1/4	2,027.18	1/4	1,683.33	1/4	1,339.49	1/4	1,001.37	1/4	666.34	1/4	322.51	1/4	7.53	1/4	
1/2	2,707.70	1/2	2,363.86	1/2	2,020.01	1/2	1,676.17	1/2	1,332.33	1/2	994.51	1/2	659.17	1/2	315.35	1/2	5.74	1/2	
3/4	2,700.54	3/4	2,356.69	3/4	2,012.85	3/4	1,669.01	3/4	1,325.16	3/4	987.66	3/4	652.01	3/4	308.18	3/4	3.95	3/4	
2	2,693.37	2	2,349.53	2	2,005.69	2	1,661.84	2	1,318.00	2	980.80	2	644.85	2	301.02	2	2.16	2	
1/4	2,686.21	1/4	2,342.37	1/4	1,998.52	1/4	1,654.68	1/4	1,310.84	1/4	973.95	1/4	637.69	1/4	293.86	1/4		1/4	
1/2	2,679.05	1/2	2,335.20	1/2	1,991.36	1/2	1,647.52	1/2	1,303.67	1/2	967.09	1/2	630.52	1/2	286.69	1/2		1/2	
3/4	2,671.88	3/4	2,328.04	3/4	1,984.20	3/4	1,640.35	3/4	1,296.51	3/4	960.24	3/4	623.36	3/4	279.53	3/4		3/4	
3	2,664.72	3	2,320.88	3	1,977.03	3	1,633.19	3	1,289.35	3	953.38	3	616.20	3	272.37	3		3	
1/4	2,657.56	1/4	2,313.71	1/4	1,969.87	1/4	1,626.03	1/4	1,282.18	1/4	946.53	1/4	609.03	1/4	265.20	1/4		1/4	
1/2	2,650.39	1/2	2,306.55	1/2	1,962.71	1/2	1,618.86	1/2	1,275.02	1/2	939.67	1/2	601.87	1/2	258.04	1/2		1/2	
3/4	2,643.23	3/4	2,299.39	3/4	1,955.54	3/4	1,611.70	3/4	1,267.86	3/4	932.82	3/4	594.71	3/4	250.88	3/4		3/4	
4	2,636.07	4	2,292.22	4	1,948.38	4	1,604.54	4	1,260.69	4	925.96	4	587.54	4	243.71	4		4	
1/4	2,628.90	1/4	2,285.06	1/4	1,941.22	1/4	1,597.37	1/4	1,253.53	1/4	919.11	1/4	580.38	1/4	236.55	1/4		1/4	
1/2	2,621.74	1/2	2,277.90	1/2	1,934.05	1/2	1,590.21	1/2	1,246.37	1/2	912.25	1/2	573.22	1/2	229.39	1/2		1/2	
3/4	2,614.57	3/4	2,270.73	3/4	1,926.89	3/4	1,583.05	3/4	1,239.20	3/4	905.40	3/4	566.05	3/4	222.23	3/4		3/4	
5	2,607.41	5	2,263.57	5	1,919.73	5	1,575.88	5	1,232.04	5	898.54	5	558.89	5	215.06	5		5	
1/4	2,600.25	1/4	2,256.40	1/4	1,912.56	1/4	1,568.72	1/4	1,224.88	1/4	891.69	1/4	551.73	1/4	207.90	1/4		1/4	
1/2	2,593.08	1/2	2,249.24	1/2	1,905.40	1/2	1,561.56	1/2	1,217.71	1/2	884.83	1/2	544.56	1/2	200.74	1/2		1/2	
3/4	2,585.92	3/4	2,242.08	3/4	1,898.23	3/4	1,554.39	3/4	1,210.55	3/4	877.98	3/4	537.40	3/4	193.57	3/4		3/4	
6	2,578.76	6	2,234.91	6	1,891.07	6	1,547.23	6	1,203.39	6	871.12	6	530.24	6	186.41	6		6	
1/4	2,571.59	1/4	2,227.75	1/4	1,883.91	1/4	1,540.06	1/4	1,196.22	1/4	864.26	1/4	523.08	1/4	179.25	1/4		1/4	
1/2	2,564.43	1/2	2,220.59	1/2	1,876.74	1/2	1,532.90	1/2	1,189.06	1/2	857.40	1/2	515.91	1/2	172.08	1/2		1/2	
3/4	2,557.27	3/4	2,213.42	3/4	1,869.58	3/4	1,525.74	3/4	1,181.89	3/4	850.54	3/4	508.75	3/4	164.92	3/4		3/4	
7	2,550.10	7	2,206.26	7	1,862.42	7	1,518.57	7	1,174.73	7	843.68	7	501.59	7	157.76	7		7	
1/4	2,542.94	1/4	2,199.10	1/4	1,855.25	1/4	1,511.41	1/4	1,167.57	1/4	836.81	1/4	494.42	1/4	150.60	1/4		1/4	
1/2	2,535.78	1/2	2,191.93	1/2	1,848.09	1/2	1,504.25	1/2	1,160.40	1/2	829.94	1/2	487.26	1/2	143.43	1/2		1/2	
3/4	2,528.61	3/4	2,184.77	3/4	1,840.93	3/4	1,497.08	3/4	1,153.24	3/4	823.07	3/4	480.10	3/4	136.27	3/4		3/4	
8	2,521.45	8	2,177.61	8	1,833.76	8	1,489.92	8	1,146.08	8	816.20	8	472.93	8	129.11	8		8	
1/4	2,514.29	1/4	2,170.44	1/4	1,826.60	1/4	1,482.76	1/4	1,139.06	1/4	809.18	1/4	465.77	1/4	121.95	1/4		1/4	
1/2	2,507.12	1/2	2,163.28	1/2	1,819.44	1/2	1,475.59	1/2	1,132.03	1/2	802.15	1/2	458.61	1/2	114.79	1/2		1/2	
3/4	2,499.96	3/4	2,156.12	3/4	1,812.27	3/4	1,468.43	3/4	1,125.01	3/4	795.13	3/4	451.44	3/4	107.64	3/4		3/4	
9	2,492.80	9	2,148.95	9	1,805.11	9	1,461.27	9	1,117.99	9	788.11	9	444.28	9	100.48	9		9	
1/4	2,485.63	1/4	2,141.79	1/4	1,797.95	1/4	1,454.10	1/4	1,111.12	1/4	780.95	1/4	437.12	1/4	93.34	1/4		1/4	
1/2	2,478.47	1/2	2,134.63	1/2	1,790.78	1/2	1,446.94	1/2	1,104.25	1/2	773.78	1/2	429.96	1/2	86.20	1/2		1/2	
3/4	2,471.31	3/4	2,127.46	3/4	1,783.62	3/4	1,439.78	3/4	1,097.37	3/4	766.62	3/4	422.79	3/4	79.06	3/4		3/4	
10	2,464.14	10	2,120.30	10	1,776.46	10	1,432.61	10	1,090.50	10	759.46	10	415.63	10	71.92	10		10	
1/4	2,456.98	1/4	2,113.14	1/4	1,769.29	1/4	1,425.45	1/4	1,083.64	1/4	752.29	1/4	408.47	1/4	65.22	1/4		1/4	
1/2	2,449.82	1/2	2,105.97	1/2	1,762.13	1/2	1,418.29	1/2	1,076.78	1/2	745.13	1/2	401.30	1/2	58.53	1/2		1/2	
3/4	2,442.65	3/4	2,098.81	3/4	1,754.97	3/4	1,411.12	3/4	1,069.92	3/4	737.97	3/4	394.14	3/4	51.83	3/4		3/4	
11	2,435.49	11	2,091.65	11	1,747.80	11	1,403.96	11	1,063.06	11	730.81	11	386.98	11	45.13	11		11	
1/4	2,428.33	1/4	2,084.48	1/4	1,740.64	1/4	1,396.80	1/4	1,056.21	1/4	723.64	1/4	379.81	1/4	39.76	1/4		1/4	
1/2	2,421.16	1/2	2,077.32	1/2	1,733.48	1/2	1,389.63	1/2	1,049.35	1/2	716.48	1/2	372.65	1/2	34.39	1/2		1/2	
3/4	2,414.00	3/4	2,070.16	3/4	1,726.31	3/4	1,382.47	3/4	1,042.50	3/4	709.32	3/4	365.49	3/4	29.02	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

**2 STBD**  
**ULLAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,105.26	0	4,819.69	0	4,477.82	0	4,135.10	0	3,791.65	0	3,448.28	0	3,104.93		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,103.25	1/4	4,812.57	1/4	4,470.70	1/4	4,127.94	1/4	3,784.50	1/4	3,441.12	1/4	3,097.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,101.24	1/2	4,805.45	1/2	4,463.57	1/2	4,120.79	1/2	3,777.34	1/2	3,433.97	1/2	3,090.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,099.23	3/4	4,798.33	3/4	4,456.45	3/4	4,113.63	3/4	3,770.19	3/4	3,426.82	3/4	3,083.47		
1	1	1	1	1	1	1	5,097.22	1	4,791.21	1	4,449.33	1	4,106.48	1	3,763.03	1	3,419.66	1	3,076.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,094.02	1/4	4,784.08	1/4	4,442.21	1/4	4,099.32	1/4	3,755.88	1/4	3,412.51	1/4	3,069.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,090.82	1/2	4,776.96	1/2	4,435.09	1/2	4,092.17	1/2	3,748.72	1/2	3,405.36	1/2	3,062.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,087.62	3/4	4,769.84	3/4	4,427.96	3/4	4,085.01	3/4	3,741.57	3/4	3,398.21	3/4	3,054.86		
2	2	2	2	2	2	2	5,084.42	2	4,762.72	2	4,420.84	2	4,077.86	2	3,734.41	2	3,391.05	2	3,047.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,080.02	1/4	4,755.59	1/4	4,413.72	1/4	4,070.70	1/4	3,727.26	1/4	3,383.90	1/4	3,040.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,075.63	1/2	4,748.47	1/2	4,406.60	1/2	4,063.55	1/2	3,720.10	1/2	3,376.75	1/2	3,033.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,071.23	3/4	4,741.35	3/4	4,399.47	3/4	4,056.39	3/4	3,712.95	3/4	3,369.59	3/4	3,026.24		
3	3	3	3	3	3	3	5,066.84	3	4,734.23	3	4,392.35	3	4,049.24	3	3,705.79	3	3,362.44	3	3,019.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,061.25	1/4	4,727.10	1/4	4,385.23	1/4	4,042.08	1/4	3,698.64	1/4	3,355.29	1/4	3,011.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,055.66	1/2	4,719.98	1/2	4,378.11	1/2	4,034.92	1/2	3,691.48	1/2	3,348.13	1/2	3,004.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,050.08	3/4	4,712.86	3/4	4,370.98	3/4	4,027.77	3/4	3,684.33	3/4	3,340.98	3/4	2,997.62		
4	4	4	4	4	4	4	5,044.49	4	4,705.74	4	4,363.86	4	4,020.61	4	3,677.18	4	3,333.83	4	2,990.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,037.90	1/4	4,698.61	1/4	4,356.74	1/4	4,013.46	1/4	3,670.02	1/4	3,326.67	1/4	2,983.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,031.30	1/2	4,691.49	1/2	4,349.62	1/2	4,006.30	1/2	3,662.87	1/2	3,319.52	1/2	2,976.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,024.70	3/4	4,684.37	3/4	4,342.49	3/4	3,999.15	3/4	3,655.72	3/4	3,312.37	3/4	2,969.00		
5	5	5	5	5	5	5	5,018.11	5	4,677.25	5	4,335.37	5	3,991.99	5	3,648.56	5	3,305.22	5	2,961.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.07	1/4	4,670.12	1/4	4,328.23	1/4	3,984.84	1/4	3,641.41	1/4	3,298.06	1/4	2,954.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,004.04	1/2	4,663.00	1/2	4,321.10	1/2	3,977.68	1/2	3,634.26	1/2	3,290.91	1/2	2,947.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,997.00	3/4	4,655.88	3/4	4,313.96	3/4	3,970.53	3/4	3,627.10	3/4	3,283.76	3/4	2,940.38		
6	6	6	6	6	6	6	4,989.97	6	4,648.76	6	4,306.82	6	3,963.37	6	3,619.95	6	3,276.60	6	2,933.22		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,982.90	1/4	4,641.63	1/4	4,299.66	1/4	3,956.22	1/4	3,612.80	1/4	3,269.45	1/4	2,926.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,975.83	1/2	4,634.51	1/2	4,292.51	1/2	3,949.06	1/2	3,605.65	1/2	3,262.30	1/2	2,918.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.76	3/4	4,627.39	3/4	4,285.35	3/4	3,941.91	3/4	3,598.49	3/4	3,255.14	3/4	2,911.76		
7	7	7	7	7	7	7	4,961.69	7	4,620.27	7	4,278.20	7	3,934.75	7	3,591.34	7	3,247.99	7	2,904.60		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.61	1/4	4,613.15	1/4	4,271.04	1/4	3,927.60	1/4	3,584.19	1/4	3,240.84	1/4	2,897.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,947.53	1/2	4,606.02	1/2	4,263.89	1/2	3,920.44	1/2	3,577.03	1/2	3,233.68	1/2	2,890.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,940.46	3/4	4,598.90	3/4	4,256.73	3/4	3,913.29	3/4	3,569.88	3/4	3,226.53	3/4	2,883.14		
8	8	8	8	8	8	8	4,933.38	8	4,591.78	8	4,249.58	8	3,906.13	8	3,562.73	8	3,219.38	8	2,875.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,926.30	1/4	4,584.66	1/4	4,242.42	1/4	3,898.98	1/4	3,555.57	1/4	3,212.22	1/4	2,868.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,919.23	1/2	4,577.53	1/2	4,235.27	1/2	3,891.82	1/2	3,548.42	1/2	3,205.07	1/2	2,861.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,912.15	3/4	4,570.41	3/4	4,228.11	3/4	3,884.67	3/4	3,541.27	3/4	3,197.92	3/4	2,854.52		
9	9	9	9	9	9	9	4,905.07	9	4,563.29	9	4,220.96	9	3,877.51	9	3,534.11	9	3,190.77	9	2,847.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,897.97	1/4	4,556.17	1/4	4,213.80	1/4	3,870.36	1/4	3,526.96	1/4	3,183.61	1/4	2,840.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.87	1/2	4,549.04	1/2	4,206.65	1/2	3,863.20	1/2	3,519.81	1/2	3,176.46	1/2	2,833.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,883.77	3/4	4,541.92	3/4	4,199.49	3/4	3,856.05	3/4	3,512.66	3/4	3,169.31	3/4	2,825.90		
10	10	10	10	10	10	10	4,876.67	10	4,534.80	10	4,192.34	10	3,848.89	10	3,505.50	10	3,162.15	10	2,818.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,869.55	1/4	4,527.68	1/4	4,185.18	1/4	3,841.74	1/4	3,498.35	1/4	3,155.00	1/4	2,811.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,862.43	1/2	4,520.55	1/2	4,178.03	1/2	3,834.58	1/2	3,491.20	1/2	3,147.85	1/2	2,804.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,855.31	3/4	4,513.43	3/4	4,170.87	3/4	3,827.43	3/4	3,484.04	3/4	3,140.69	3/4	2,797.28		
11	11	11	11	11	11	11	5,108.98	11	4,848.18	11	4,506.31	11	4,163.72	11	3,820.27	11	3,476.89	11	3,133.54	11	2,790.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,108.05	1/4	4,841.06	1/4	4,499.19	1/4	4,156.56	1/4	3,813.12	1/4	3,469.74	1/4	3,126.39	1/4	2,782.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,107.12	1/2	4,833.94	1/2	4,492.06	1/2	4,149.41	1/2	3,805.96	1/2	3,462.58	1/2	3,119.23	1/2	2,775.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,106.19	3/4	4,826.82	3/4	4,484.94	3/4	4,142.25	3/4	3,798.81	3/4	3,455.43	3/4	3,112.08	3/4	2,768.66

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MPX 411"

## 2 STBD

### ULLAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,761.50	0	2,418.06	0	2,074.61	0	1,731.17	0	1,387.72	0	1,044.39	0	701.33	0	357.90	0	23.62	0	
1/4	2,754.35	1/4	2,410.90	1/4	2,067.46	1/4	1,724.01	1/4	1,380.57	1/4	1,037.25	1/4	694.18	1/4	350.75	1/4	20.04	1/4	
1/2	2,747.19	1/2	2,403.75	1/2	2,060.30	1/2	1,716.86	1/2	1,373.41	1/2	1,030.10	1/2	687.03	1/2	343.59	1/2	16.46	1/2	
3/4	2,740.04	3/4	2,396.59	3/4	2,053.15	3/4	1,709.70	3/4	1,366.26	3/4	1,022.96	3/4	679.87	3/4	336.44	3/4	12.88	3/4	
1	2,732.88	1	2,389.44	1	2,045.99	1	1,702.55	1	1,359.10	1	1,015.82	1	672.72	1	329.29	1	9.31	1	
1/4	2,725.73	1/4	2,382.28	1/4	2,038.84	1/4	1,695.39	1/4	1,351.95	1/4	1,008.68	1/4	665.56	1/4	322.13	1/4	7.52	1/4	
1/2	2,718.57	1/2	2,375.13	1/2	2,031.68	1/2	1,688.24	1/2	1,344.79	1/2	1,001.54	1/2	658.41	1/2	314.98	1/2	5.73	1/2	
3/4	2,711.42	3/4	2,367.97	3/4	2,024.53	3/4	1,681.08	3/4	1,337.64	3/4	994.40	3/4	651.25	3/4	307.82	3/4	3.94	3/4	
2	2,704.26	2	2,360.82	2	2,017.37	2	1,673.93	2	1,330.48	2	987.26	2	644.10	2	300.67	2	2.16	2	
1/4	2,697.11	1/4	2,353.66	1/4	2,010.22	1/4	1,666.77	1/4	1,323.33	1/4	980.12	1/4	636.94	1/4	293.51	1/4		1/4	
1/2	2,689.95	1/2	2,346.51	1/2	2,003.06	1/2	1,659.62	1/2	1,316.17	1/2	972.98	1/2	629.79	1/2	286.36	1/2		1/2	
3/4	2,682.80	3/4	2,339.35	3/4	1,995.91	3/4	1,652.46	3/4	1,309.02	3/4	965.83	3/4	622.63	3/4	279.20	3/4		3/4	
3	2,675.64	3	2,332.20	3	1,988.75	3	1,645.31	3	1,301.86	3	958.69	3	615.48	3	272.05	3		3	
1/4	2,668.49	1/4	2,325.04	1/4	1,981.60	1/4	1,638.15	1/4	1,294.71	1/4	951.55	1/4	608.32	1/4	264.89	1/4		1/4	
1/2	2,661.33	1/2	2,317.89	1/2	1,974.44	1/2	1,631.00	1/2	1,287.55	1/2	944.41	1/2	601.17	1/2	257.74	1/2		1/2	
3/4	2,654.18	3/4	2,310.73	3/4	1,967.29	3/4	1,623.84	3/4	1,280.40	3/4	937.27	3/4	594.01	3/4	250.58	3/4		3/4	
4	2,647.02	4	2,303.58	4	1,960.13	4	1,616.69	4	1,273.24	4	930.13	4	586.86	4	243.43	4		4	
1/4	2,639.87	1/4	2,296.42	1/4	1,952.98	1/4	1,609.53	1/4	1,266.09	1/4	922.99	1/4	579.70	1/4	236.27	1/4		1/4	
1/2	2,632.71	1/2	2,289.27	1/2	1,945.82	1/2	1,602.38	1/2	1,258.93	1/2	915.85	1/2	572.55	1/2	229.12	1/2		1/2	
3/4	2,625.56	3/4	2,282.11	3/4	1,938.67	3/4	1,595.22	3/4	1,251.78	3/4	908.71	3/4	565.39	3/4	221.96	3/4		3/4	
5	2,618.40	5	2,274.96	5	1,931.51	5	1,588.07	5	1,244.62	5	901.57	5	558.24	5	214.81	5		5	
1/4	2,611.25	1/4	2,267.80	1/4	1,924.36	1/4	1,580.91	1/4	1,237.47	1/4	894.43	1/4	551.08	1/4	207.65	1/4		1/4	
1/2	2,604.09	1/2	2,260.65	1/2	1,917.20	1/2	1,573.76	1/2	1,230.31	1/2	887.29	1/2	543.93	1/2	200.50	1/2		1/2	
3/4	2,596.94	3/4	2,253.49	3/4	1,910.05	3/4	1,566.60	3/4	1,223.16	3/4	880.14	3/4	536.77	3/4	193.34	3/4		3/4	
6	2,589.78	6	2,246.34	6	1,902.89	6	1,559.45	6	1,216.00	6	873.00	6	529.62	6	186.19	6		6	
1/4	2,582.62	1/4	2,239.18	1/4	1,895.74	1/4	1,552.29	1/4	1,208.85	1/4	865.86	1/4	522.46	1/4	179.03	1/4		1/4	
1/2	2,575.47	1/2	2,232.02	1/2	1,888.58	1/2	1,545.14	1/2	1,201.69	1/2	858.71	1/2	515.31	1/2	171.88	1/2		1/2	
3/4	2,568.31	3/4	2,224.87	3/4	1,881.43	3/4	1,537.98	3/4	1,194.54	3/4	851.57	3/4	508.16	3/4	164.72	3/4		3/4	
7	2,561.16	7	2,217.71	7	1,874.27	7	1,530.83	7	1,187.38	7	844.42	7	501.00	7	157.57	7		7	
1/4	2,554.00	1/4	2,210.56	1/4	1,867.11	1/4	1,523.67	1/4	1,180.23	1/4	837.27	1/4	493.85	1/4	150.42	1/4		1/4	
1/2	2,546.85	1/2	2,203.40	1/2	1,859.96	1/2	1,516.52	1/2	1,173.07	1/2	830.12	1/2	486.69	1/2	143.26	1/2		1/2	
3/4	2,539.69	3/4	2,196.25	3/4	1,852.80	3/4	1,509.36	3/4	1,165.92	3/4	822.96	3/4	479.54	3/4	136.11	3/4		3/4	
8	2,532.54	8	2,189.09	8	1,845.65	8	1,502.20	8	1,158.76	8	815.81	8	472.38	8	128.95	8		8	
1/4	2,525.38	1/4	2,181.94	1/4	1,838.49	1/4	1,495.05	1/4	1,151.60	1/4	808.66	1/4	465.23	1/4	121.80	1/4		1/4	
1/2	2,518.23	1/2	2,174.78	1/2	1,831.34	1/2	1,487.89	1/2	1,144.45	1/2	801.50	1/2	458.07	1/2	114.66	1/2		1/2	
3/4	2,511.07	3/4	2,167.63	3/4	1,824.18	3/4	1,480.74	3/4	1,137.29	3/4	794.35	3/4	450.92	3/4	107.51	3/4		3/4	
9	2,503.92	9	2,160.47	9	1,817.03	9	1,473.58	9	1,130.14	9	787.19	9	443.76	9	100.36	9		9	
1/4	2,496.76	1/4	2,153.32	1/4	1,809.87	1/4	1,466.43	1/4	1,122.99	1/4	780.04	1/4	436.61	1/4	93.23	1/4		1/4	
1/2	2,489.61	1/2	2,146.16	1/2	1,802.72	1/2	1,459.27	1/2	1,115.84	1/2	772.88	1/2	429.45	1/2	86.09	1/2		1/2	
3/4	2,482.45	3/4	2,139.01	3/4	1,795.56	3/4	1,452.12	3/4	1,108.68	3/4	765.73	3/4	422.30	3/4	78.96	3/4		3/4	
10	2,475.30	10	2,131.85	10	1,788.41	10	1,444.96	10	1,101.53	10	758.57	10	415.14	10	71.83	10		10	
1/4	2,468.14	1/4	2,124.70	1/4	1,781.25	1/4	1,437.81	1/4	1,094.39	1/4	751.42	1/4	407.99	1/4	65.14	1/4		1/4	
1/2	2,460.99	1/2	2,117.54	1/2	1,774.10	1/2	1,430.65	1/2	1,087.24	1/2	744.26	1/2	400.83	1/2	58.45	1/2		1/2	
3/4	2,453.83	3/4	2,110.39	3/4	1,766.94	3/4	1,423.50	3/4	1,080.10	3/4	737.11	3/4	393.68	3/4	51.77	3/4		3/4	
11	2,446.68	11	2,103.23	11	1,759.79	11	1,416.34	11	1,072.95	11	729.95	11	386.52	11	45.08	11		11	
1/4	2,439.52	1/4	2,096.08	1/4	1,752.63	1/4	1,409.19	1/4	1,065.81	1/4	722.80	1/4	379.37	1/4	39.71	1/4		1/4	
1/2	2,432.37	1/2	2,088.92	1/2	1,745.48	1/2	1,402.03	1/2	1,058.67	1/2	715.64	1/2	372.21	1/2	34.35	1/2		1/2	
3/4	2,425.21	3/4	2,081.77	3/4	1,738.32	3/4	1,394.88	3/4	1,051.53	3/4	708.49	3/4	365.06	3/4	28.98	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020





# BARGE "MPX 411"

## 3 PORT ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,399.21	0	4,232.98	0	4,024.01	0	3,814.58	0	3,604.69	0	3,395.33	0	3,084.77
1/4		1/4		1/4		1/4	4,398.13	1/4	4,228.62	1/4	4,019.66	1/4	3,810.20	1/4	3,600.32	1/4	3,390.97	1/4	3,077.65
1/2		1/2		1/2		1/2	4,396.42	1/2	4,224.27	1/2	4,015.31	1/2	3,805.83	1/2	3,595.95	1/2	3,386.63	1/2	3,070.54
3/4		3/4		3/4		3/4	4,394.72	3/4	4,219.92	3/4	4,010.95	3/4	3,801.46	3/4	3,591.57	3/4	3,382.28	3/4	3,063.42
1		1		1		1	4,393.01	1	4,215.56	1	4,006.60	1	3,797.09	1	3,587.20	1	3,377.93	1	3,056.30
1/4		1/4		1/4		1/4	4,391.30	1/4	4,211.21	1/4	4,002.25	1/4	3,792.71	1/4	3,582.83	1/4	3,373.58	1/4	3,049.19
1/2		1/2		1/2		1/2	4,389.59	1/2	4,206.86	1/2	3,997.89	1/2	3,788.34	1/2	3,578.46	1/2	3,369.24	1/2	3,042.06
3/4		3/4		3/4		3/4	4,387.88	3/4	4,202.50	3/4	3,993.54	3/4	3,783.97	3/4	3,574.08	3/4	3,364.91	3/4	3,034.94
2		2		2		2	4,386.17	2	4,198.15	2	3,989.19	2	3,779.60	2	3,569.71	2	3,360.57	2	3,027.81
1/4		1/4		1/4		1/4	4,384.47	1/4	4,193.80	1/4	3,984.83	1/4	3,775.22	1/4	3,565.34	1/4	3,356.23	1/4	3,020.69
1/2		1/2		1/2		1/2	4,382.49	1/2	4,189.44	1/2	3,980.48	1/2	3,770.85	1/2	3,560.97	1/2	3,350.51	1/2	3,013.56
3/4		3/4		3/4		3/4	4,380.51	3/4	4,185.09	3/4	3,976.13	3/4	3,766.48	3/4	3,556.59	3/4	3,344.79	3/4	3,006.42
3		3		3		3	4,378.54	3	4,180.74	3	3,971.77	3	3,762.11	3	3,552.22	3	3,339.07	3	2,999.29
1/4		1/4		1/4		1/4	4,376.56	1/4	4,176.38	1/4	3,967.42	1/4	3,757.73	1/4	3,547.85	1/4	3,333.35	1/4	2,992.16
1/2		1/2		1/2		1/2	4,373.72	1/2	4,172.03	1/2	3,963.07	1/2	3,753.36	1/2	3,543.48	1/2	3,326.25	1/2	2,985.03
3/4		3/4		3/4		3/4	4,370.88	3/4	4,167.68	3/4	3,958.71	3/4	3,748.99	3/4	3,539.12	3/4	3,319.15	3/4	2,977.89
4		4		4		4	4,368.04	4	4,163.32	4	3,954.36	4	3,744.62	4	3,534.75	4	3,312.05	4	2,970.76
1/4		1/4		1/4		1/4	4,365.20	1/4	4,158.97	1/4	3,950.01	1/4	3,740.24	1/4	3,530.39	1/4	3,304.95	1/4	2,963.63
1/2		1/2		1/2		1/2	4,361.36	1/2	4,154.62	1/2	3,945.65	1/2	3,735.87	1/2	3,526.03	1/2	3,297.85	1/2	2,956.50
3/4		3/4		3/4		3/4	4,357.51	3/4	4,150.26	3/4	3,941.30	3/4	3,731.50	3/4	3,521.67	3/4	3,290.74	3/4	2,949.36
5		5		5		5	4,353.66	5	4,145.91	5	3,936.95	5	3,727.13	5	3,517.32	5	3,283.64	5	2,942.23
1/4		1/4		1/4		1/4	4,349.82	1/4	4,141.56	1/4	3,932.59	1/4	3,722.75	1/4	3,512.96	1/4	3,276.54	1/4	2,935.10
1/2		1/2		1/2		1/2	4,345.53	1/2	4,137.20	1/2	3,928.23	1/2	3,718.38	1/2	3,508.60	1/2	3,269.44	1/2	2,927.97
3/4		3/4		3/4		3/4	4,341.25	3/4	4,132.85	3/4	3,923.87	3/4	3,714.01	3/4	3,504.25	3/4	3,262.34	3/4	2,920.84
6		6		6		6	4,336.97	6	4,128.50	6	3,919.51	6	3,709.63	6	3,499.89	6	3,255.24	6	2,913.72
1/4		1/4		1/4		1/4	4,332.68	1/4	4,124.14	1/4	3,915.15	1/4	3,705.26	1/4	3,495.53	1/4	3,248.14	1/4	2,906.59
1/2		1/2		1/2		1/2	4,328.36	1/2	4,119.79	1/2	3,910.77	1/2	3,700.89	1/2	3,491.18	1/2	3,241.04	1/2	2,899.47
3/4		3/4		3/4		3/4	4,324.05	3/4	4,115.44	3/4	3,906.40	3/4	3,696.52	3/4	3,486.82	3/4	3,233.94	3/4	2,892.35
7		7		7		7	4,319.73	7	4,111.08	7	3,902.03	7	3,692.14	7	3,482.46	7	3,226.84	7	2,885.23
1/4		1/4		1/4		1/4	4,315.41	1/4	4,106.73	1/4	3,897.66	1/4	3,687.77	1/4	3,478.11	1/4	3,219.75	1/4	2,878.11
1/2		1/2		1/2		1/2	4,311.09	1/2	4,102.38	1/2	3,893.28	1/2	3,683.40	1/2	3,473.75	1/2	3,212.65	1/2	2,870.99
3/4		3/4		3/4		3/4	4,306.76	3/4	4,098.02	3/4	3,888.91	3/4	3,679.03	3/4	3,469.39	3/4	3,205.55	3/4	2,863.86
8		8		8		8	4,302.44	8	4,093.67	8	3,884.54	8	3,674.65	8	3,465.04	8	3,198.45	8	2,856.74
1/4		1/4		1/4		1/4	4,298.12	1/4	4,089.32	1/4	3,880.17	1/4	3,670.28	1/4	3,460.68	1/4	3,191.35	1/4	2,849.62
1/2		1/2		1/2		1/2	4,293.79	1/2	4,084.96	1/2	3,875.79	1/2	3,665.91	1/2	3,456.32	1/2	3,184.25	1/2	2,842.50
3/4		3/4		3/4		3/4	4,289.46	3/4	4,080.61	3/4	3,871.42	3/4	3,661.54	3/4	3,451.97	3/4	3,177.15	3/4	2,835.38
9		9		9		9	4,285.14	9	4,076.26	9	3,867.05	9	3,657.16	9	3,447.61	9	3,170.05	9	2,828.26
1/4		1/4		1/4		1/4	4,280.81	1/4	4,071.90	1/4	3,862.68	1/4	3,652.79	1/4	3,443.25	1/4	3,162.95	1/4	2,821.14
1/2		1/2		1/2		1/2	4,276.47	1/2	4,067.55	1/2	3,858.30	1/2	3,648.42	1/2	3,438.90	1/2	3,155.85	1/2	2,814.02
3/4		3/4		3/4		3/4	4,272.13	3/4	4,063.20	3/4	3,853.93	3/4	3,644.05	3/4	3,434.54	3/4	3,148.75	3/4	2,806.90
10		10		10		10	4,267.79	10	4,058.84	10	3,849.56	10	3,639.67	10	3,430.18	10	3,141.65	10	2,799.78
1/4		1/4		1/4		1/4	4,263.45	1/4	4,054.49	1/4	3,845.19	1/4	3,635.30	1/4	3,425.83	1/4	3,134.55	1/4	2,792.66
1/2		1/2		1/2		1/2	4,259.10	1/2	4,050.14	1/2	3,840.81	1/2	3,630.93	1/2	3,421.47	1/2	3,127.44	1/2	2,785.54
3/4		3/4		3/4		3/4	4,254.74	3/4	4,045.78	3/4	3,836.44	3/4	3,626.56	3/4	3,417.11	3/4	3,120.34	3/4	2,778.42
11		11		11		11	4,250.39	11	4,041.43	11	3,832.07	11	3,622.18	11	3,412.76	11	3,113.23	11	2,771.29
1/4		1/4		1/4	4,402.44	1/4	4,246.04	1/4	4,037.07	1/4	3,827.70	1/4	3,617.81	1/4	3,408.40	1/4	3,106.12	1/4	2,764.17
1/2		1/2		1/2	4,401.36	1/2	4,241.68	1/2	4,032.72	1/2	3,823.32	1/2	3,613.44	1/2	3,404.04	1/2	3,099.00	1/2	2,757.05
3/4		3/4		3/4	4,400.29	3/4	4,237.33	3/4	4,028.37	3/4	3,818.95	3/4	3,609.07	3/4	3,399.69	3/4	3,091.89	3/4	2,749.93

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "MPX 411"

## 3 PORT ULLAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-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	2,742.81	0	2,401.00	0	2,059.16	0	1,717.32	0	1,375.48	0	1,037.32	0	705.95	0	364.03	0	28.91	0	
1/4	2,735.69	1/4	2,393.88	1/4	2,052.04	1/4	1,710.20	1/4	1,368.36	1/4	1,030.51	1/4	698.83	1/4	356.90	1/4	23.56	1/4	
1/2	2,728.57	1/2	2,386.76	1/2	2,044.92	1/2	1,703.08	1/2	1,361.24	1/2	1,023.69	1/2	691.71	1/2	349.77	1/2	19.99	1/2	
3/4	2,721.45	3/4	2,379.64	3/4	2,037.80	3/4	1,695.96	3/4	1,354.11	3/4	1,016.88	3/4	684.58	3/4	342.63	3/4	16.42	3/4	
1	2,714.33	1	2,372.52	1	2,030.68	1	1,688.83	1	1,346.99	1	1,010.07	1	677.46	1	335.50	1	12.86	1	
1/4	2,707.21	1/4	2,365.40	1/4	2,023.55	1/4	1,681.71	1/4	1,339.87	1/4	1,003.26	1/4	670.34	1/4	328.36	1/4	9.29	1/4	
1/2	2,700.09	1/2	2,358.27	1/2	2,016.43	1/2	1,674.59	1/2	1,332.75	1/2	996.45	1/2	663.21	1/2	321.23	1/2	7.50	1/2	
3/4	2,692.97	3/4	2,351.15	3/4	2,009.31	3/4	1,667.47	3/4	1,325.63	3/4	989.63	3/4	656.09	3/4	314.09	3/4	5.72	3/4	
2	2,685.84	2	2,344.03	2	2,002.19	2	1,660.35	2	1,318.51	2	982.82	2	648.97	2	306.96	2	3.94	2	
1/4	2,678.72	1/4	2,336.91	1/4	1,995.07	1/4	1,653.23	1/4	1,311.38	1/4	976.01	1/4	641.85	1/4	299.82	1/4	2.15	1/4	
1/2	2,671.60	1/2	2,329.79	1/2	1,987.95	1/2	1,646.10	1/2	1,304.26	1/2	969.20	1/2	634.72	1/2	292.69	1/2		1/2	
3/4	2,664.48	3/4	2,322.67	3/4	1,980.82	3/4	1,638.98	3/4	1,297.14	3/4	962.39	3/4	627.60	3/4	285.56	3/4		3/4	
3	2,657.36	3	2,315.54	3	1,973.70	3	1,631.86	3	1,290.02	3	955.57	3	620.48	3	278.42	3		3	
1/4	2,650.24	1/4	2,308.42	1/4	1,966.58	1/4	1,624.74	1/4	1,282.90	1/4	948.76	1/4	613.35	1/4	271.29	1/4		1/4	
1/2	2,643.12	1/2	2,301.30	1/2	1,959.46	1/2	1,617.62	1/2	1,275.78	1/2	941.95	1/2	606.23	1/2	264.15	1/2		1/2	
3/4	2,636.00	3/4	2,294.18	3/4	1,952.34	3/4	1,610.50	3/4	1,268.65	3/4	935.14	3/4	599.11	3/4	257.02	3/4		3/4	
4	2,628.88	4	2,287.06	4	1,945.22	4	1,603.37	4	1,261.53	4	928.33	4	591.98	4	249.88	4		4	
1/4	2,621.76	1/4	2,279.94	1/4	1,938.09	1/4	1,596.25	1/4	1,254.41	1/4	921.51	1/4	584.86	1/4	242.75	1/4		1/4	
1/2	2,614.64	1/2	2,272.81	1/2	1,930.97	1/2	1,589.13	1/2	1,247.29	1/2	914.70	1/2	577.74	1/2	235.61	1/2		1/2	
3/4	2,607.52	3/4	2,265.69	3/4	1,923.85	3/4	1,582.01	3/4	1,240.17	3/4	907.89	3/4	570.62	3/4	228.48	3/4		3/4	
5	2,600.40	5	2,258.57	5	1,916.73	5	1,574.89	5	1,233.05	5	901.08	5	563.49	5	221.34	5		5	
1/4	2,593.27	1/4	2,251.45	1/4	1,909.61	1/4	1,567.77	1/4	1,225.92	1/4	894.27	1/4	556.37	1/4	214.21	1/4		1/4	
1/2	2,586.15	1/2	2,244.33	1/2	1,902.49	1/2	1,560.64	1/2	1,218.80	1/2	887.45	1/2	549.25	1/2	207.07	1/2		1/2	
3/4	2,579.03	3/4	2,237.21	3/4	1,895.36	3/4	1,553.52	3/4	1,211.68	3/4	880.64	3/4	542.12	3/4	199.94	3/4		3/4	
6	2,571.91	6	2,230.08	6	1,888.24	6	1,546.40	6	1,204.56	6	873.83	6	535.00	6	192.81	6		6	
1/4	2,564.79	1/4	2,222.96	1/4	1,881.12	1/4	1,539.28	1/4	1,197.44	1/4	867.02	1/4	527.88	1/4	185.67	1/4		1/4	
1/2	2,557.67	1/2	2,215.84	1/2	1,874.00	1/2	1,532.16	1/2	1,190.32	1/2	860.20	1/2	520.75	1/2	178.54	1/2		1/2	
3/4	2,550.55	3/4	2,208.72	3/4	1,866.88	3/4	1,525.04	3/4	1,183.19	3/4	853.39	3/4	513.63	3/4	171.40	3/4		3/4	
7	2,543.43	7	2,201.60	7	1,859.76	7	1,517.91	7	1,176.07	7	846.57	7	506.51	7	164.27	7		7	
1/4	2,536.31	1/4	2,194.48	1/4	1,852.63	1/4	1,510.79	1/4	1,168.95	1/4	839.75	1/4	499.39	1/4	157.13	1/4		1/4	
1/2	2,529.19	1/2	2,187.35	1/2	1,845.51	1/2	1,503.67	1/2	1,161.83	1/2	832.90	1/2	492.26	1/2	150.00	1/2		1/2	
3/4	2,522.07	3/4	2,180.23	3/4	1,838.39	3/4	1,496.55	3/4	1,154.71	3/4	826.04	3/4	485.14	3/4	142.86	3/4		3/4	
8	2,514.95	8	2,173.11	8	1,831.27	8	1,489.43	8	1,147.59	8	819.19	8	478.02	8	135.73	8		8	
1/4	2,507.82	1/4	2,165.99	1/4	1,824.15	1/4	1,482.31	1/4	1,140.46	1/4	812.33	1/4	470.89	1/4	128.60	1/4		1/4	
1/2	2,500.70	1/2	2,158.87	1/2	1,817.03	1/2	1,475.18	1/2	1,133.34	1/2	805.33	1/2	463.77	1/2	121.47	1/2		1/2	
3/4	2,493.58	3/4	2,151.74	3/4	1,809.90	3/4	1,468.06	3/4	1,126.45	3/4	798.32	3/4	456.65	3/4	114.34	3/4		3/4	
9	2,486.46	9	2,144.62	9	1,802.78	9	1,460.94	9	1,119.45	9	791.31	9	449.52	9	107.21	9		9	
1/4	2,479.34	1/4	2,137.50	1/4	1,795.66	1/4	1,453.82	1/4	1,112.44	1/4	784.31	1/4	442.40	1/4	100.08	1/4		1/4	
1/2	2,472.22	1/2	2,130.38	1/2	1,788.54	1/2	1,446.70	1/2	1,105.58	1/2	777.18	1/2	435.28	1/2	92.97	1/2		1/2	
3/4	2,465.10	3/4	2,123.26	3/4	1,781.42	3/4	1,439.57	3/4	1,098.73	3/4	770.06	3/4	428.16	3/4	85.86	3/4		3/4	
10	2,457.98	10	2,116.14	10	1,774.29	10	1,432.45	10	1,091.87	10	762.94	10	421.03	10	78.75	10		10	
1/4	2,450.86	1/4	2,109.01	1/4	1,767.17	1/4	1,425.33	1/4	1,085.02	1/4	755.81	1/4	413.91	1/4	71.64	1/4		1/4	
1/2	2,443.73	1/2	2,101.89	1/2	1,760.05	1/2	1,418.21	1/2	1,078.20	1/2	748.69	1/2	406.79	1/2	64.97	1/2		1/2	
3/4	2,436.61	3/4	2,094.77	3/4	1,752.93	3/4	1,411.09	3/4	1,071.39	3/4	741.57	3/4	399.66	3/4	58.30	3/4		3/4	
11	2,429.49	11	2,087.65	11	1,745.81	11	1,403.97	11	1,064.57	11	734.44	11	392.54	11	51.63	11		11	
1/4	2,422.37	1/4	2,080.53	1/4	1,738.69	1/4	1,396.84	1/4	1,057.75	1/4	727.32	1/4	385.42	1/4	44.96	1/4		1/4	
1/2	2,415.25	1/2	2,073.41	1/2	1,731.56	1/2	1,389.72	1/2	1,050.94	1/2	720.20	1/2	378.29	1/2	39.61	1/2		1/2	
3/4	2,408.13	3/4	2,066.28	3/4	1,724.44	3/4	1,382.60	3/4	1,044.13	3/4	713.08	3/4	371.16	3/4	34.26	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## 3 STBD ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,409.97	0	4,240.59	0	4,031.79	0	3,822.50	0	3,612.79	0	3,403.08	0	3,090.21
1/4		1/4		1/4		1/4	4,408.26	1/4	4,236.24	1/4	4,027.44	1/4	3,818.13	1/4	3,608.42	1/4	3,398.73	1/4	3,083.11
1/2		1/2		1/2		1/2	4,406.55	1/2	4,231.89	1/2	4,023.09	1/2	3,813.77	1/2	3,604.05	1/2	3,394.38	1/2	3,076.00
3/4		3/4		3/4		3/4	4,404.85	3/4	4,227.54	3/4	4,018.74	3/4	3,809.40	3/4	3,599.68	3/4	3,390.03	3/4	3,068.90
1		1		1		1	4,403.14	1	4,223.19	1	4,014.39	1	3,805.03	1	3,595.32	1	3,385.68	1	3,061.79
1/4		1/4		1/4		1/4	4,401.43	1/4	4,218.84	1/4	4,010.04	1/4	3,800.66	1/4	3,590.95	1/4	3,381.34	1/4	3,054.69
1/2		1/2		1/2		1/2	4,399.73	1/2	4,214.49	1/2	4,005.69	1/2	3,796.29	1/2	3,586.58	1/2	3,377.01	1/2	3,047.58
3/4		3/4		3/4		3/4	4,398.02	3/4	4,210.14	3/4	4,001.34	3/4	3,791.92	3/4	3,582.21	3/4	3,372.67	3/4	3,040.47
2		2		2		2	4,396.31	2	4,205.79	2	3,996.99	2	3,787.55	2	3,577.84	2	3,368.34	2	3,033.37
1/4		1/4		1/4		1/4	4,394.34	1/4	4,201.44	1/4	3,992.64	1/4	3,783.18	1/4	3,573.47	1/4	3,363.93	1/4	3,026.26
1/2		1/2		1/2		1/2	4,392.36	1/2	4,197.09	1/2	3,988.29	1/2	3,778.81	1/2	3,569.10	1/2	3,359.62	1/2	3,019.16
3/4		3/4		3/4		3/4	4,390.39	3/4	4,192.74	3/4	3,983.94	3/4	3,774.44	3/4	3,564.73	3/4	3,355.21	3/4	3,012.05
3		3		3		3	4,388.41	3	4,188.39	3	3,979.59	3	3,770.08	3	3,560.36	3	3,350.80	3	3,004.95
1/4		1/4		1/4		1/4	4,385.57	1/4	4,184.04	1/4	3,975.24	1/4	3,765.71	1/4	3,555.99	1/4	3,346.41	1/4	2,997.84
1/2		1/2		1/2		1/2	4,382.73	1/2	4,179.69	1/2	3,970.89	1/2	3,761.34	1/2	3,551.63	1/2	3,342.02	1/2	2,990.73
3/4		3/4		3/4		3/4	4,379.89	3/4	4,175.34	3/4	3,966.54	3/4	3,756.97	3/4	3,547.26	3/4	3,337.63	3/4	2,983.63
4		4		4		4	4,377.06	4	4,170.99	4	3,962.19	4	3,752.60	4	3,542.89	4	3,333.24	4	2,976.52
1/4		1/4		1/4		1/4	4,373.21	1/4	4,166.64	1/4	3,957.84	1/4	3,748.23	1/4	3,538.52	1/4	3,328.85	1/4	2,969.42
1/2		1/2		1/2		1/2	4,369.37	1/2	4,162.29	1/2	3,953.49	1/2	3,743.86	1/2	3,534.15	1/2	3,324.46	1/2	2,962.31
3/4		3/4		3/4		3/4	4,365.53	3/4	4,157.94	3/4	3,949.14	3/4	3,739.49	3/4	3,529.78	3/4	3,320.07	3/4	2,955.21
5		5		5		5	4,361.68	5	4,153.59	5	3,944.79	5	3,735.12	5	3,525.41	5	3,288.79	5	2,948.10
1/4		1/4		1/4		1/4	4,357.40	1/4	4,149.24	1/4	3,940.44	1/4	3,730.75	1/4	3,521.04	1/4	3,284.40	1/4	2,940.99
1/2		1/2		1/2		1/2	4,353.12	1/2	4,144.89	1/2	3,936.08	1/2	3,726.39	1/2	3,516.67	1/2	3,280.01	1/2	2,933.89
3/4		3/4		3/4		3/4	4,348.84	3/4	4,140.54	3/4	3,931.72	3/4	3,722.02	3/4	3,512.30	3/4	3,275.62	3/4	2,926.78
6		6		6		6	4,344.56	6	4,136.19	6	3,927.36	6	3,717.65	6	3,507.94	6	3,271.23	6	2,919.68
1/4		1/4		1/4		1/4	4,340.25	1/4	4,131.84	1/4	3,922.99	1/4	3,713.28	1/4	3,503.57	1/4	3,266.84	1/4	2,912.57
1/2		1/2		1/2		1/2	4,335.93	1/2	4,127.49	1/2	3,918.62	1/2	3,708.91	1/2	3,499.20	1/2	3,262.45	1/2	2,905.47
3/4		3/4		3/4		3/4	4,331.62	3/4	4,123.14	3/4	3,914.25	3/4	3,704.54	3/4	3,494.83	3/4	3,258.06	3/4	2,898.36
7		7		7		7	4,327.31	7	4,118.79	7	3,909.88	7	3,700.17	7	3,490.46	7	3,253.67	7	2,891.25
1/4		1/4		1/4		1/4	4,322.99	1/4	4,114.44	1/4	3,905.51	1/4	3,695.80	1/4	3,486.09	1/4	3,249.28	1/4	2,884.15
1/2		1/2		1/2		1/2	4,318.67	1/2	4,110.09	1/2	3,901.15	1/2	3,691.43	1/2	3,481.72	1/2	3,244.89	1/2	2,877.04
3/4		3/4		3/4		3/4	4,314.34	3/4	4,105.74	3/4	3,896.78	3/4	3,687.06	3/4	3,477.35	3/4	3,240.50	3/4	2,869.94
8		8		8		8	4,310.02	8	4,101.39	8	3,892.41	8	3,682.70	8	3,472.98	8	3,236.11	8	2,862.83
1/4		1/4		1/4		1/4	4,305.70	1/4	4,097.04	1/4	3,888.04	1/4	3,678.33	1/4	3,468.61	1/4	3,231.72	1/4	2,855.73
1/2		1/2		1/2		1/2	4,301.38	1/2	4,092.69	1/2	3,883.67	1/2	3,673.96	1/2	3,464.25	1/2	3,227.33	1/2	2,848.62
3/4		3/4		3/4		3/4	4,297.06	3/4	4,088.34	3/4	3,879.30	3/4	3,669.59	3/4	3,459.88	3/4	3,222.94	3/4	2,841.51
9		9		9		9	4,292.73	9	4,083.99	9	3,874.93	9	3,665.22	9	3,455.51	9	3,218.55	9	2,834.41
1/4		1/4		1/4		1/4	4,288.40	1/4	4,079.64	1/4	3,870.56	1/4	3,660.85	1/4	3,451.14	1/4	3,214.16	1/4	2,827.30
1/2		1/2		1/2		1/2	4,284.06	1/2	4,075.29	1/2	3,866.19	1/2	3,656.48	1/2	3,446.77	1/2	3,209.77	1/2	2,820.20
3/4		3/4		3/4		3/4	4,279.72	3/4	4,070.94	3/4	3,861.82	3/4	3,652.11	3/4	3,442.40	3/4	3,205.38	3/4	2,813.09
10		10		10		10	4,275.39	10	4,066.59	10	3,857.46	10	3,647.74	10	3,438.03	10	3,200.99	10	2,805.99
1/4		1/4		1/4		1/4	4,271.04	1/4	4,062.24	1/4	3,853.09	1/4	3,643.37	1/4	3,433.66	1/4	3,196.60	1/4	2,798.88
1/2		1/2		1/2		1/2	4,266.69	1/2	4,057.89	1/2	3,848.72	1/2	3,639.01	1/2	3,429.29	1/2	3,192.21	1/2	2,791.77
3/4		3/4		3/4		3/4	4,262.34	3/4	4,053.54	3/4	3,844.35	3/4	3,634.64	3/4	3,424.92	3/4	3,187.82	3/4	2,784.67
11		11		11	4,414.27	11	4,257.99	11	4,049.19	11	3,839.98	11	3,630.27	11	3,420.56	11	3,183.43	11	2,777.56
1/4		1/4		1/4	4,413.19	1/4	4,253.64	1/4	4,044.84	1/4	3,835.61	1/4	3,625.90	1/4	3,416.19	1/4	3,179.04	1/4	2,770.46
1/2		1/2		1/2	4,412.12	1/2	4,249.29	1/2	4,040.49	1/2	3,831.24	1/2	3,621.53	1/2	3,411.82	1/2	3,174.65	1/2	2,763.35
3/4		3/4		3/4	4,411.04	3/4	4,244.94	3/4	4,036.14	3/4	3,826.87	3/4	3,617.16	3/4	3,407.45	3/4	3,170.26	3/4	2,756.25

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "MPX 411"

3 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,749.14	0	2,407.49	0	2,065.55	0	1,723.61	0	1,381.67	0	1,039.83	0	698.28	0	356.34	0	23.51	0	
1/4	2,742.03	1/4	2,400.37	1/4	2,058.43	1/4	1,716.49	1/4	1,374.54	1/4	1,032.72	1/4	691.15	1/4	349.22	1/4	19.95	1/4	
1/2	2,734.93	1/2	2,393.25	1/2	2,051.30	1/2	1,709.36	1/2	1,367.42	1/2	1,025.61	1/2	684.03	1/2	342.10	1/2	16.39	1/2	
3/4	2,727.82	3/4	2,386.12	3/4	2,044.18	3/4	1,702.24	3/4	1,360.30	3/4	1,018.50	3/4	676.91	3/4	334.97	3/4	12.83	3/4	
1	2,720.72	1	2,379.00	1	2,037.06	1	1,695.11	1	1,353.17	1	1,011.39	1	669.78	1	327.85	1	9.27	1	
1/4	2,713.61	1/4	2,371.88	1/4	2,029.93	1/4	1,687.99	1/4	1,346.05	1/4	1,004.28	1/4	662.66	1/4	320.73	1/4	7.48	1/4	
1/2	2,706.51	1/2	2,364.75	1/2	2,022.81	1/2	1,680.87	1/2	1,338.92	1/2	997.17	1/2	655.53	1/2	313.60	1/2	5.70	1/2	
3/4	2,699.40	3/4	2,357.63	3/4	2,015.69	3/4	1,673.74	3/4	1,331.80	3/4	990.06	3/4	648.41	3/4	306.48	3/4	3.92	3/4	
2	2,692.29	2	2,350.50	2	2,008.56	2	1,666.62	2	1,324.68	2	982.95	2	641.29	2	299.35	2	2.15	2	
1/4	2,685.19	1/4	2,343.38	1/4	2,001.44	1/4	1,659.50	1/4	1,317.55	1/4	975.84	1/4	634.16	1/4	292.23	1/4		1/4	
1/2	2,678.08	1/2	2,336.26	1/2	1,994.31	1/2	1,652.37	1/2	1,310.43	1/2	968.73	1/2	627.04	1/2	285.11	1/2		1/2	
3/4	2,670.98	3/4	2,329.13	3/4	1,987.19	3/4	1,645.25	3/4	1,303.31	3/4	961.62	3/4	619.92	3/4	277.98	3/4		3/4	
3	2,663.87	3	2,322.01	3	1,980.07	3	1,638.12	3	1,296.18	3	954.51	3	612.79	3	270.86	3		3	
1/4	2,656.77	1/4	2,314.88	1/4	1,972.94	1/4	1,631.00	1/4	1,289.06	1/4	947.40	1/4	605.67	1/4	263.74	1/4		1/4	
1/2	2,649.66	1/2	2,307.76	1/2	1,965.82	1/2	1,623.88	1/2	1,281.93	1/2	940.29	1/2	598.55	1/2	256.61	1/2		1/2	
3/4	2,642.55	3/4	2,300.64	3/4	1,958.69	3/4	1,616.75	3/4	1,274.81	3/4	933.18	3/4	591.42	3/4	249.49	3/4		3/4	
4	2,635.45	4	2,293.51	4	1,951.57	4	1,609.63	4	1,267.69	4	926.07	4	584.30	4	242.37	4		4	
1/4	2,628.33	1/4	2,286.39	1/4	1,944.45	1/4	1,602.50	1/4	1,260.56	1/4	918.96	1/4	577.18	1/4	235.24	1/4		1/4	
1/2	2,621.22	1/2	2,279.27	1/2	1,937.32	1/2	1,595.38	1/2	1,253.44	1/2	911.85	1/2	570.05	1/2	228.12	1/2		1/2	
3/4	2,614.10	3/4	2,272.14	3/4	1,930.20	3/4	1,588.26	3/4	1,246.31	3/4	904.75	3/4	562.93	3/4	221.00	3/4		3/4	
5	2,606.99	5	2,265.02	5	1,923.08	5	1,581.13	5	1,239.19	5	897.64	5	555.80	5	213.87	5		5	
1/4	2,599.86	1/4	2,257.89	1/4	1,915.95	1/4	1,574.01	1/4	1,232.07	1/4	890.53	1/4	548.68	1/4	206.75	1/4		1/4	
1/2	2,592.74	1/2	2,250.77	1/2	1,908.83	1/2	1,566.89	1/2	1,224.94	1/2	883.42	1/2	541.56	1/2	199.62	1/2		1/2	
3/4	2,585.61	3/4	2,243.65	3/4	1,901.70	3/4	1,559.76	3/4	1,217.82	3/4	876.31	3/4	534.43	3/4	192.50	3/4		3/4	
6	2,578.49	6	2,236.52	6	1,894.58	6	1,552.64	6	1,210.70	6	869.20	6	527.31	6	185.38	6		6	
1/4	2,571.37	1/4	2,229.40	1/4	1,887.46	1/4	1,545.51	1/4	1,203.57	1/4	862.08	1/4	520.19	1/4	178.25	1/4		1/4	
1/2	2,564.24	1/2	2,222.28	1/2	1,880.33	1/2	1,538.39	1/2	1,196.45	1/2	854.97	1/2	513.06	1/2	171.13	1/2		1/2	
3/4	2,557.12	3/4	2,215.15	3/4	1,873.21	3/4	1,531.27	3/4	1,189.32	3/4	847.86	3/4	505.94	3/4	164.01	3/4		3/4	
7	2,549.99	7	2,208.03	7	1,866.09	7	1,524.14	7	1,182.20	7	840.74	7	498.82	7	156.88	7		7	
1/4	2,542.87	1/4	2,200.90	1/4	1,858.96	1/4	1,517.02	1/4	1,175.08	1/4	833.62	1/4	491.69	1/4	149.76	1/4		1/4	
1/2	2,535.74	1/2	2,193.78	1/2	1,851.84	1/2	1,509.90	1/2	1,167.95	1/2	826.50	1/2	484.57	1/2	142.64	1/2		1/2	
3/4	2,528.62	3/4	2,186.66	3/4	1,844.71	3/4	1,502.77	3/4	1,160.83	3/4	819.38	3/4	477.44	3/4	135.51	3/4		3/4	
8	2,521.49	8	2,179.53	8	1,837.59	8	1,495.65	8	1,153.71	8	812.25	8	470.32	8	128.39	8		8	
1/4	2,514.36	1/4	2,172.41	1/4	1,830.47	1/4	1,488.52	1/4	1,146.58	1/4	805.13	1/4	463.20	1/4	121.27	1/4		1/4	
1/2	2,507.24	1/2	2,165.29	1/2	1,823.34	1/2	1,481.40	1/2	1,139.46	1/2	798.01	1/2	456.07	1/2	114.16	1/2		1/2	
3/4	2,500.11	3/4	2,158.16	3/4	1,816.22	3/4	1,474.28	3/4	1,132.33	3/4	790.88	3/4	448.95	3/4	107.04	3/4		3/4	
9	2,492.98	9	2,151.04	9	1,809.10	9	1,467.15	9	1,125.21	9	783.76	9	441.83	9	99.92	9		9	
1/4	2,485.86	1/4	2,143.91	1/4	1,801.97	1/4	1,460.03	1/4	1,118.09	1/4	776.64	1/4	434.70	1/4	92.82	1/4		1/4	
1/2	2,478.73	1/2	2,136.79	1/2	1,794.85	1/2	1,452.91	1/2	1,110.97	1/2	769.51	1/2	427.58	1/2	85.72	1/2		1/2	
3/4	2,471.61	3/4	2,129.67	3/4	1,787.72	3/4	1,445.78	3/4	1,103.85	3/4	762.39	3/4	420.46	3/4	78.62	3/4		3/4	
10	2,464.48	10	2,122.54	10	1,780.60	10	1,438.66	10	1,096.73	10	755.27	10	413.33	10	71.52	10		10	
1/4	2,457.36	1/4	2,115.42	1/4	1,773.48	1/4	1,431.53	1/4	1,089.61	1/4	748.14	1/4	406.21	1/4	64.46	1/4		1/4	
1/2	2,450.24	1/2	2,108.29	1/2	1,766.35	1/2	1,424.41	1/2	1,082.50	1/2	741.02	1/2	399.09	1/2	57.36	1/2		1/2	
3/4	2,443.11	3/4	2,101.17	3/4	1,759.23	3/4	1,417.29	3/4	1,075.38	3/4	733.89	3/4	391.96	3/4	50.26	3/4		3/4	
11	2,435.99	11	2,094.05	11	1,752.10	11	1,410.16	11	1,068.27	11	726.77	11	384.84	11	43.16	11		11	
1/4	2,428.87	1/4	2,086.92	1/4	1,744.98	1/4	1,403.04	1/4	1,061.16	1/4	719.65	1/4	377.71	1/4	36.06	1/4		1/4	
1/2	2,421.74	1/2	2,079.80	1/2	1,737.86	1/2	1,395.91	1/2	1,054.05	1/2	712.52	1/2	370.59	1/2	28.96	1/2		1/2	
3/4	2,414.62	3/4	2,072.68	3/4	1,730.73	3/4	1,388.79	3/4	1,046.94	3/4	705.40	3/4	363.47	3/4	21.86	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/17/2020 CL  
CALCULATED: 12/18/2020 CL  
PRINTED: 12/18/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2020



# BARGE "MPX 411"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4	5,576	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1	5,599	1	1	1	1	1	1	1	1
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4	5,622	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2	5,644	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4	5,667	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2	5,690	2	2	2	2	2	2	2	2
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4	5,712	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2	5,734	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4	5,756	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3	5,778	3	3	3	3	3	3	3	3
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4	5,799	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2	5,821	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4	5,843	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4	5,865	4	4	4	4	4	4	4	4
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4	5,887	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2	5,909	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	436	3/4	1,538	3/4	2,639	3/4	3,740	3/4	4,842	3/4	5,931	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5	5,953	5	5	5	5	5	5	5	5
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4	5,975	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2	6,000	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4	6,022	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6	6,044	6	6	6	6	6	6	6	6
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4	6,066	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2	6,088	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,026	3/4	6,110	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7	6,132	7	7	7	7	7	7	7	7
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4	6,154	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2	6,176	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4	6,198	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8	6,220	8	8	8	8	8	8	8	8
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4	6,242	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2	6,264	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4	6,286	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9	6,308	9	9	9	9	9	9	9	9
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4	6,330	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2	6,352	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4	6,374	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10	6,396	10	10	10	10	10	10	10	10
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4	6,418	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2	6,440	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4	6,462	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11	6,484	11	11	11	11	11	11	11	11
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4	6,506	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2	6,528	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4	6,550	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER "HERMETIC" VALVE.

STRAPPED: 12/17/2020 CL  
 CALCULATED: 12/18/2020 CL  
 PRINTED: 12/18/2020 JS

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 12/2020

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

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 Pearland, Texas 77588  
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# BARGE "MPX 411"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4	5,576	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1	5,599	1	1	1	1	1	1	1	1
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4	5,622	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2	5,644	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4	5,667	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2	5,690	2	2	2	2	2	2	2	2
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4	5,712	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2	5,734	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4	5,756	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3	5,778	3	3	3	3	3	3	3	3
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4	5,799	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2	5,821	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4	5,843	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4	5,865	4	4	4	4	4	4	4	4
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4	5,887	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2	5,909	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	436	3/4	1,538	3/4	2,639	3/4	3,740	3/4	4,842	3/4	5,931	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5	5,953	5	5	5	5	5	5	5	5
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4	5,975	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2	6,000	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4	6,022	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6	6,044	6	6	6	6	6	6	6	6
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4	6,066	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2	6,088	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,026	3/4	6,110	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7	6,132	7	7	7	7	7	7	7	7
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4	6,154	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2	6,176	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4	6,198	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8	6,220	8	8	8	8	8	8	8	8
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4	6,242	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2	6,264	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4	6,286	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9	6,308	9	9	9	9	9	9	9	9
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4	6,330	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2	6,352	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4	6,374	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10	6,396	10	10	10	10	10	10	10	10
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4	6,418	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2	6,440	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4	6,462	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11	6,484	11	11	11	11	11	11	11	11
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4	6,506	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2	6,528	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4	6,550	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER "HERMETIC" VALVE.

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 Pearland, Texas 77588  
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# BARGE "MPX 411"

# FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 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	0	0	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4	4	4	4	4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6	6	6	6	6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" STANDPIPE

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