



BARGE "KIRBY 28716"

ULLAGE TRIM TABLE (MMC)

FORMERLY "SMS 30032"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 01-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-10 5/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

August 22, 2022

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28716"

1 PORT ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0	4,708.23	0	4,351.01	0	3,992.53	0	3,633.99	0	3,275.45	0	2,916.90	0	2,558.18	0	2,199.44		
1/4	1/4	1/4	1/4	1/4	4,700.83	1/4	4,343.57	1/4	3,985.06	1/4	3,626.52	1/4	3,267.98	1/4	2,909.43	1/4	2,550.71	1/4	2,191.97		
1/2	1/2	1/2	1/2	1/2	4,693.42	1/2	4,336.11	1/2	3,977.59	1/2	3,619.05	1/2	3,260.51	1/2	2,901.96	1/2	2,543.23	1/2	2,184.50		
3/4	3/4	3/4	3/4	3/4	5,021.69	3/4	4,686.01	3/4	4,328.65	3/4	3,970.12	3/4	3,611.58	3/4	3,253.04	3/4	2,894.49	3/4	2,177.02		
1		1		1	5,017.21	1	4,678.60	1	4,321.19	1	3,962.65	1	3,604.11	1	3,245.57	1	2,887.02	1	2,528.29	1	2,169.55
1/4	1/4	1/4	1/4	1/4	5,012.74	1/4	4,671.19	1/4	4,313.73	1/4	3,955.19	1/4	3,596.64	1/4	3,238.10	1/4	2,879.55	1/4	2,520.81	1/4	2,162.07
1/2	1/2	1/2	1/2	1/2	5,007.46	1/2	4,663.76	1/2	4,306.26	1/2	3,947.72	1/2	3,589.17	1/2	3,230.63	1/2	2,872.08	1/2	2,513.34	1/2	2,154.60
3/4	3/4	3/4	3/4	3/4	5,002.18	3/4	4,656.33	3/4	4,298.79	3/4	3,940.25	3/4	3,581.71	3/4	3,223.16	3/4	2,864.60	3/4	2,505.86	3/4	2,147.13
2		2		2	4,996.91	2	4,648.90	2	4,291.32	2	3,932.78	2	3,574.24	2	3,215.69	2	2,857.13	2	2,498.39	2	2,139.65
1/4	1/4	1/4	1/4	1/4	4,991.63	1/4	4,641.47	1/4	4,283.85	1/4	3,925.31	1/4	3,566.77	1/4	3,208.23	1/4	2,849.66	1/4	2,490.92	1/4	2,132.18
1/2	1/2	1/2	1/2	1/2	4,985.29	1/2	4,634.03	1/2	4,276.38	1/2	3,917.84	1/2	3,559.30	1/2	3,200.76	1/2	2,842.18	1/2	2,483.44	1/2	2,124.71
3/4	3/4	3/4	3/4	3/4	4,978.94	3/4	4,626.58	3/4	4,268.91	3/4	3,910.37	3/4	3,551.83	3/4	3,193.29	3/4	2,834.71	3/4	2,475.97	3/4	2,117.23
3		3		3	4,972.60	3	4,619.14	3	4,261.44	3	3,902.90	3	3,544.36	3	3,185.82	3	2,827.23	3	2,468.50	3	2,109.76
1/4	1/4	1/4	1/4	1/4	4,966.26	1/4	4,611.69	1/4	4,253.97	1/4	3,895.43	1/4	3,536.89	1/4	3,178.35	1/4	2,819.76	1/4	2,461.02	1/4	2,102.29
1/2	1/2	1/2	1/2	1/2	4,959.14	1/2	4,604.24	1/2	4,246.50	1/2	3,887.96	1/2	3,529.42	1/2	3,170.88	1/2	2,812.29	1/2	2,453.55	1/2	2,094.81
3/4	3/4	3/4	3/4	3/4	4,952.03	3/4	4,596.79	3/4	4,239.03	3/4	3,880.49	3/4	3,521.95	3/4	3,163.41	3/4	2,804.81	3/4	2,446.08	3/4	2,087.34
4		4		4	4,944.92	4	4,589.35	4	4,231.56	4	3,873.02	4	3,514.48	4	3,155.94	4	2,797.34	4	2,438.60	4	2,079.86
1/4	1/4	1/4	1/4	1/4	4,937.81	1/4	4,581.90	1/4	4,224.09	1/4	3,865.55	1/4	3,507.01	1/4	3,148.47	1/4	2,789.87	1/4	2,431.13	1/4	2,072.39
1/2	1/2	1/2	1/2	1/2	4,930.43	1/2	4,574.45	1/2	4,216.62	1/2	3,858.08	1/2	3,499.54	1/2	3,141.00	1/2	2,782.39	1/2	2,423.65	1/2	2,064.92
3/4	3/4	3/4	3/4	3/4	4,923.05	3/4	4,567.00	3/4	4,209.15	3/4	3,850.61	3/4	3,492.07	3/4	3,133.53	3/4	2,774.92	3/4	2,416.18	3/4	2,057.44
5		5		5	4,915.67	5	4,559.55	5	4,201.68	5	3,843.14	5	3,484.60	5	3,126.06	5	2,767.44	5	2,408.71	5	2,049.97
1/4	1/4	1/4	1/4	1/4	4,908.30	1/4	4,552.11	1/4	4,194.21	1/4	3,835.67	1/4	3,477.13	1/4	3,118.59	1/4	2,759.97	1/4	2,401.23	1/4	2,042.50
1/2	1/2	1/2	1/2	1/2	4,900.88	1/2	4,544.66	1/2	4,186.74	1/2	3,828.20	1/2	3,469.66	1/2	3,111.12	1/2	2,752.50	1/2	2,393.76	1/2	2,035.02
3/4	3/4	3/4	3/4	3/4	4,893.47	3/4	4,537.21	3/4	4,179.27	3/4	3,820.73	3/4	3,462.19	3/4	3,103.65	3/4	2,745.02	3/4	2,386.29	3/4	2,027.55
6		6		6	4,886.06	6	4,529.76	6	4,171.80	6	3,813.26	6	3,454.72	6	3,096.18	6	2,737.55	6	2,378.81	6	2,020.07
1/4	1/4	1/4	1/4	1/4	4,878.65	1/4	4,522.32	1/4	4,164.33	1/4	3,805.79	1/4	3,447.25	1/4	3,088.71	1/4	2,730.08	1/4	2,371.34	1/4	2,012.60
1/2	1/2	1/2	1/2	1/2	4,871.23	1/2	4,514.87	1/2	4,156.86	1/2	3,798.32	1/2	3,439.78	1/2	3,081.24	1/2	2,722.60	1/2	2,363.86	1/2	2,005.13
3/4	3/4	3/4	3/4	3/4	4,863.82	3/4	4,507.42	3/4	4,149.39	3/4	3,790.85	3/4	3,432.31	3/4	3,073.77	3/4	2,715.13	3/4	2,356.39	3/4	1,997.65
7		7		7	4,856.41	7	4,499.97	7	4,141.93	7	3,783.38	7	3,424.84	7	3,066.30	7	2,707.65	7	2,348.92	7	1,990.18
1/4	1/4	1/4	1/4	1/4	4,849.00	1/4	4,492.52	1/4	4,134.46	1/4	3,775.91	1/4	3,417.37	1/4	3,058.83	1/4	2,700.18	1/4	2,341.44	1/4	1,982.71
1/2	1/2	1/2	1/2	1/2	4,841.59	1/2	4,485.08	1/2	4,126.99	1/2	3,768.45	1/2	3,409.90	1/2	3,051.36	1/2	2,692.71	1/2	2,333.97	1/2	1,975.23
3/4	3/4	3/4	3/4	3/4	4,834.18	3/4	4,477.63	3/4	4,119.52	3/4	3,760.98	3/4	3,402.43	3/4	3,043.89	3/4	2,685.23	3/4	2,326.50	3/4	1,967.76
8		8		8	4,826.77	8	4,470.18	8	4,112.05	8	3,753.51	8	3,394.97	8	3,036.42	8	2,677.76	8	2,319.02	8	1,960.28
1/4	1/4	1/4	1/4	1/4	4,819.36	1/4	4,462.73	1/4	4,104.58	1/4	3,746.04	1/4	3,387.50	1/4	3,028.95	1/4	2,670.29	1/4	2,311.55	1/4	1,952.81
1/2	1/2	1/2	1/2	1/2	4,811.95	1/2	4,455.28	1/2	4,097.11	1/2	3,738.57	1/2	3,380.03	1/2	3,021.49	1/2	2,662.81	1/2	2,304.07	1/2	1,945.34
3/4	3/4	3/4	3/4	3/4	4,804.54	3/4	4,447.84	3/4	4,089.64	3/4	3,731.10	3/4	3,372.56	3/4	3,014.02	3/4	2,655.34	3/4	2,296.60	3/4	1,937.86
9		9		9	4,797.13	9	4,440.39	9	4,082.17	9	3,723.63	9	3,365.09	9	3,006.55	9	2,647.87	9	2,289.13	9	1,930.39
1/4	1/4	1/4	1/4	1/4	4,789.72	1/4	4,432.94	1/4	4,074.70	1/4	3,716.16	1/4	3,357.62	1/4	2,999.08	1/4	2,640.39	1/4	2,281.65	1/4	1,922.92
1/2	1/2	1/2	1/2	1/2	4,782.32	1/2	4,425.49	1/2	4,067.23	1/2	3,708.69	1/2	3,350.15	1/2	2,991.61	1/2	2,632.92	1/2	2,274.18	1/2	1,915.44
3/4	3/4	3/4	3/4	3/4	4,774.91	3/4	4,418.04	3/4	4,059.76	3/4	3,701.22	3/4	3,342.68	3/4	2,984.14	3/4	2,625.44	3/4	2,266.71	3/4	1,907.97
10		10		10	4,767.50	10	4,410.60	10	4,052.29	10	3,693.75	10	3,335.21	10	2,976.67	10	2,617.97	10	2,259.23	10	1,900.50
1/4	1/4	1/4	1/4	1/4	4,760.09	1/4	4,403.15	1/4	4,044.82	1/4	3,686.28	1/4	3,327.74	1/4	2,969.20	1/4	2,610.50	1/4	2,251.76	1/4	1,893.02
1/2	1/2	1/2	1/2	1/2	4,752.68	1/2	4,395.70	1/2	4,037.35	1/2	3,678.81	1/2	3,320.27	1/2	2,961.73	1/2	2,603.02	1/2	2,244.29	1/2	1,885.55
3/4	3/4	3/4	3/4	3/4	4,745.28	3/4	4,388.25	3/4	4,029.88	3/4	3,671.34	3/4	3,312.80	3/4	2,954.26	3/4	2,595.55	3/4	2,236.81	3/4	1,878.07
11		11		11	4,737.87	11	4,380.80	11	4,022.41	11	3,663.87	11	3,305.33	11	2,946.79	11	2,588.08	11	2,229.34	11	1,870.60
1/4	1/4	1/4	1/4	1/4	4,730.46	1/4	4,373.36	1/4	4,014.94	1/4	3,656.40	1/4	3,297.86	1/4	2,939.32	1/4	2,580.60	1/4	2,221.86	1/4	1,863.13
1/2	1/2	1/2	1/2	1/2	4,723.05	1/2	4,365.91	1/2	4,007.47	1/2	3,648.93	1/2	3,290.39	1/2	2,931.85	1/2	2,573.13	1/2	2,214.39	1/2	1,855.65
3/4	3/4	3/4	3/4	3/4	4,715.64	3/4	4,358.46	3/4	4,000.00	3/4	3,641.46	3/4	3,282.92	3/4	2,924.38	3/4	2,565.65	3/4	2,206.92	3/4	1,848.18

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 OF 2" MMC VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "KIRBY 28716"

1 PORT ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-03 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	1,840.71	0	1,481.97	0	1,123.28	0	766.68	0	409.95	0	90.34	0		0		0		0	
1/4	1,833.23	1/4	1,474.49	1/4	1,115.82	1/4	759.23	1/4	402.74	1/4	84.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,825.76	1/2	1,467.02	1/2	1,108.38	1/2	751.76	1/2	395.62	1/2	78.13	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,818.28	3/4	1,459.55	3/4	1,100.93	3/4	744.28	3/4	388.50	3/4	72.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,810.81	1	1,452.07	1	1,093.49	1	736.81	1	381.38	1	66.00	1		1		1		1	
1/4	1,803.34	1/4	1,444.60	1/4	1,086.04	1/4	729.34	1/4	374.26	1/4	59.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,795.86	1/2	1,437.13	1/2	1,078.60	1/2	721.87	1/2	367.22	1/2	54.49	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,788.39	3/4	1,429.65	3/4	1,071.17	3/4	714.40	3/4	360.19	3/4	49.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,780.92	2	1,422.18	2	1,063.73	2	706.92	2	353.16	2	43.59	2		2		2		2	
1/4	1,773.44	1/4	1,414.70	1/4	1,056.30	1/4	699.45	1/4	346.12	1/4	38.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,765.97	1/2	1,407.23	1/2	1,048.86	1/2	691.98	1/2	339.18	1/2	34.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,758.49	3/4	1,399.76	3/4	1,041.43	3/4	684.50	3/4	332.23	3/4	30.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,751.02	3	1,392.28	3	1,034.00	3	677.03	3	325.29	3	26.26	3		3		3		3	
1/4	1,743.55	1/4	1,384.81	1/4	1,026.57	1/4	669.56	1/4	318.34	1/4	22.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,736.07	1/2	1,377.34	1/2	1,019.15	1/2	662.08	1/2	311.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,728.60	3/4	1,369.86	3/4	1,011.72	3/4	654.61	3/4	304.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,721.13	4	1,362.39	4	1,004.29	4	647.14	4	297.77	4	4	4		4		4		4	
1/4	1,713.65	1/4	1,354.92	1/4	996.87	1/4	639.66	1/4	290.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,706.18	1/2	1,347.44	1/2	989.45	1/2	632.19	1/2	284.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,698.71	3/4	1,339.97	3/4	982.02	3/4	624.72	3/4	277.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,691.23	5	1,332.49	5	974.60	5	617.24	5	270.61	5	5	5		5		5		5	
1/4	1,683.76	1/4	1,325.02	1/4	967.18	1/4	609.77	1/4	263.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,676.28	1/2	1,317.55	1/2	959.75	1/2	602.30	1/2	257.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,668.81	3/4	1,310.07	3/4	952.33	3/4	594.82	3/4	250.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,661.34	6	1,302.60	6	944.91	6	587.35	6	243.80	6	6	6		6		6		6	
1/4	1,653.86	1/4	1,295.13	1/4	937.48	1/4	579.88	1/4	237.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,646.39	1/2	1,287.65	1/2	930.06	1/2	572.40	1/2	230.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,638.92	3/4	1,280.18	3/4	922.64	3/4	564.93	3/4	223.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,631.44	7	1,272.70	7	915.22	7	557.46	7	217.34	7	7	7		7		7		7	
1/4	1,623.97	1/4	1,265.23	1/4	907.79	1/4	549.98	1/4	210.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,616.49	1/2	1,257.76	1/2	900.37	1/2	542.51	1/2	204.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,609.02	3/4	1,250.28	3/4	892.95	3/4	535.04	3/4	197.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,601.55	8	1,242.81	8	885.53	8	527.56	8	191.24	8	8	8		8		8		8	
1/4	1,594.07	1/4	1,235.34	1/4	878.10	1/4	520.09	1/4	184.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,586.60	1/2	1,227.86	1/2	870.68	1/2	512.64	1/2	178.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,579.13	3/4	1,220.39	3/4	863.26	3/4	505.19	3/4	171.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,571.65	9	1,212.91	9	855.83	9	497.74	9	165.49	9	9	9		9		9		9	
1/4	1,564.18	1/4	1,205.44	1/4	848.41	1/4	490.29	1/4	159.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,556.70	1/2	1,197.97	1/2	840.99	1/2	482.91	1/2	152.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,549.23	3/4	1,190.49	3/4	833.57	3/4	475.53	3/4	146.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,541.76	10	1,183.02	10	826.14	10	468.15	10	140.09	10	10	10		10		10		10	
1/4	1,534.28	1/4	1,175.55	1/4	818.72	1/4	460.76	1/4	133.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,526.81	1/2	1,168.07	1/2	811.30	1/2	453.47	1/2	127.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,519.34	3/4	1,160.60	3/4	803.88	3/4	446.17	3/4	121.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,511.86	11	1,153.13	11	796.45	11	438.87	11	115.04	11	11	11		11		11		11	
1/4	1,504.39	1/4	1,145.65	1/4	789.03	1/4	431.58	1/4	108.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,496.92	1/2	1,138.19	1/2	781.58	1/2	424.37	1/2	102.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,489.44	3/4	1,130.74	3/4	774.13	3/4	417.16	3/4	96.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2012 CL - SW
CALCULATED: 07/12/2012 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28716"

1 STBD

ULLAGE TABLE

MMC VALVE

GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

Table with 19 columns (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.) and multiple rows of capacity data.

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 OF 2" MMC VALVE. GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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





BARGE "KIRBY 28716"

1 STBD ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-03"

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	1,834.86	0	1,476.13	0	1,117.40	0	759.17	0	402.73	0	84.19	0		0		0		0	
1/4	1,827.39	1/4	1,468.66	1/4	1,109.93	1/4	751.69	1/4	395.61	1/4	78.13	1/4		1/4		1/4		1/4	
1/2	1,819.91	1/2	1,461.18	1/2	1,102.46	1/2	744.22	1/2	388.49	1/2	72.06	1/2		1/2		1/2		1/2	
3/4	1,812.44	3/4	1,453.71	3/4	1,094.98	3/4	736.75	3/4	381.37	3/4	66.00	3/4		3/4		3/4		3/4	
1	1,804.96	1	1,446.24	1	1,087.51	1	729.28	1	374.25	1	59.93	1		1		1		1	
1/4	1,797.49	1/4	1,438.76	1/4	1,080.04	1/4	721.80	1/4	367.22	1/4	54.48	1/4		1/4		1/4		1/4	
1/2	1,790.02	1/2	1,431.29	1/2	1,072.57	1/2	714.33	1/2	360.19	1/2	49.03	1/2		1/2		1/2		1/2	
3/4	1,782.54	3/4	1,423.82	3/4	1,065.10	3/4	706.86	3/4	353.15	3/4	43.58	3/4		3/4		3/4		3/4	
2	1,775.07	2	1,416.34	2	1,057.63	2	699.38	2	346.12	2	38.13	2		2		2		2	
1/4	1,767.60	1/4	1,408.87	1/4	1,050.16	1/4	691.91	1/4	339.17	1/4	34.17	1/4		1/4		1/4		1/4	
1/2	1,760.12	1/2	1,401.40	1/2	1,042.69	1/2	684.44	1/2	332.23	1/2	30.21	1/2		1/2		1/2		1/2	
3/4	1,752.65	3/4	1,393.92	3/4	1,035.23	3/4	676.96	3/4	325.29	3/4	26.25	3/4		3/4		3/4		3/4	
3	1,745.18	3	1,386.45	3	1,027.76	3	669.49	3	318.34	3	22.30	3		3		3		3	
1/4	1,737.70	1/4	1,378.98	1/4	1,020.30	1/4	662.02	1/4	311.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,730.23	1/2	1,371.50	1/2	1,012.83	1/2	654.54	1/2	304.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.76	3/4	1,364.03	3/4	1,005.37	3/4	647.07	3/4	297.77	3/4		3/4		3/4		3/4		3/4	
4	1,715.28	4	1,356.55	4	997.91	4	639.60	4	290.91	4		4		4		4		4	
1/4	1,707.81	1/4	1,349.08	1/4	990.45	1/4	632.12	1/4	284.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.34	1/2	1,341.61	1/2	982.99	1/2	624.65	1/2	277.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,692.86	3/4	1,334.13	3/4	975.53	3/4	617.18	3/4	270.61	3/4		3/4		3/4		3/4		3/4	
5	1,685.39	5	1,326.66	5	968.07	5	609.70	5	263.84	5		5		5		5		5	
1/4	1,677.92	1/4	1,319.19	1/4	960.61	1/4	602.23	1/4	257.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,670.44	1/2	1,311.71	1/2	953.15	1/2	594.76	1/2	250.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,662.97	3/4	1,304.24	3/4	945.69	3/4	587.28	3/4	243.80	3/4		3/4		3/4		3/4		3/4	
6	1,655.49	6	1,296.77	6	938.23	6	579.81	6	237.12	6		6		6		6		6	
1/4	1,648.02	1/4	1,289.29	1/4	930.77	1/4	572.34	1/4	230.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,640.55	1/2	1,281.82	1/2	923.31	1/2	564.87	1/2	223.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,633.07	3/4	1,274.35	3/4	915.85	3/4	557.40	3/4	217.34	3/4		3/4		3/4		3/4		3/4	
7	1,625.60	7	1,266.87	7	908.39	7	549.93	7	210.75	7		7		7		7		7	
1/4	1,618.13	1/4	1,259.40	1/4	900.93	1/4	542.47	1/4	204.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,610.65	1/2	1,251.93	1/2	893.47	1/2	535.00	1/2	197.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,603.18	3/4	1,244.45	3/4	886.01	3/4	527.54	3/4	191.24	3/4		3/4		3/4		3/4		3/4	
8	1,595.71	8	1,236.98	8	878.55	8	520.07	8	184.73	8		8		8		8		8	
1/4	1,588.23	1/4	1,229.51	1/4	871.09	1/4	512.62	1/4	178.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,580.76	1/2	1,222.03	1/2	863.63	1/2	505.18	1/2	171.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,573.29	3/4	1,214.56	3/4	856.17	3/4	497.73	3/4	165.48	3/4		3/4		3/4		3/4		3/4	
9	1,565.81	9	1,207.08	9	848.71	9	490.29	9	159.07	9		9		9		9		9	
1/4	1,558.34	1/4	1,199.61	1/4	841.25	1/4	482.91	1/4	152.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,550.87	1/2	1,192.14	1/2	833.79	1/2	475.52	1/2	146.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,543.39	3/4	1,184.66	3/4	826.33	3/4	468.14	3/4	140.08	3/4		3/4		3/4		3/4		3/4	
10	1,535.92	10	1,177.19	10	818.87	10	460.76	10	133.76	10		10		10		10		10	
1/4	1,528.45	1/4	1,169.72	1/4	811.41	1/4	453.46	1/4	127.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,520.97	1/2	1,162.24	1/2	803.96	1/2	446.17	1/2	121.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,513.50	3/4	1,154.77	3/4	796.50	3/4	438.87	3/4	115.04	3/4		3/4		3/4		3/4		3/4	
11	1,506.02	11	1,147.30	11	789.04	11	431.57	11	108.80	11		11		11		11		11	
1/4	1,498.55	1/4	1,139.82	1/4	781.57	1/4	424.36	1/4	102.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,491.08	1/2	1,132.35	1/2	774.10	1/2	417.15	1/2	96.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,483.60	3/4	1,124.88	3/4	766.63	3/4	409.94	3/4	90.34	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2012 CL - SW
CALCULATED: 07/12/2012 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

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



BARGE "KIRBY 28716"

**2 PORT
ULLAGE TABLE
MMC VALVE
GAUGE HEIGHT 15'-03"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
0		0		0	4,759.22	0	4,401.44	0	4,042.41	0	3,683.35	0	3,324.29	0	2,965.21	0	2,605.95	0	2,246.70		
1/4	1/4		1/4	1/4	4,751.80	1/4	4,393.96	1/4	4,034.93	1/4	3,675.87	1/4	3,316.81	1/4	2,957.73	1/4	2,598.47	1/4	2,239.21		
1/2	1/2	5,080.55	1/2	1/2	4,744.38	1/2	4,386.49	1/2	4,027.45	1/2	3,668.39	1/2	3,309.33	1/2	2,950.24	1/2	2,590.98	1/2	2,231.73		
3/4	3/4	5,076.07	3/4	3/4	4,736.96	3/4	4,379.02	3/4	4,019.97	3/4	3,660.91	3/4	3,301.85	3/4	2,942.76	3/4	2,583.50	3/4	2,224.24		
1		1		1	4,729.54	1	4,371.55	1	4,012.49	1	3,653.43	1	3,294.36	1	2,935.27	1	2,576.01	1	2,216.76		
1/4	1/4	5,066.30	1/4	1/4	4,722.10	1/4	4,364.07	1/4	4,005.01	1/4	3,645.95	1/4	3,286.88	1/4	2,927.79	1/4	2,568.53	1/4	2,209.27		
1/2	1/2	5,061.02	1/2	1/2	4,714.66	1/2	4,356.59	1/2	3,997.53	1/2	3,638.47	1/2	3,279.40	1/2	2,920.30	1/2	2,561.05	1/2	2,201.79		
3/4	3/4	5,055.73	3/4	3/4	4,707.22	3/4	4,349.11	3/4	3,990.05	3/4	3,630.99	3/4	3,271.92	3/4	2,912.82	3/4	2,553.56	3/4	2,194.31		
2		2		2	4,699.78	2	4,341.63	2	3,982.57	2	3,623.51	2	3,264.44	2	2,905.33	2	2,546.08	2	2,186.82		
1/4	1/4	5,044.09	1/4	1/4	4,692.32	1/4	4,334.15	1/4	3,975.09	1/4	3,616.03	1/4	3,256.96	1/4	2,897.85	1/4	2,538.59	1/4	2,179.34		
1/2	1/2	5,037.74	1/2	1/2	4,684.86	1/2	4,326.67	1/2	3,967.61	1/2	3,608.55	1/2	3,249.48	1/2	2,890.36	1/2	2,531.11	1/2	2,171.85		
3/4	3/4	5,031.39	3/4	3/4	4,677.41	3/4	4,319.19	3/4	3,960.13	3/4	3,601.07	3/4	3,242.00	3/4	2,882.88	3/4	2,523.62	3/4	2,164.37		
3		3		3	4,669.95	3	4,311.71	3	3,952.65	3	3,593.58	3	3,234.52	3	2,875.39	3	2,516.14	3	2,156.88		
1/4	1/4	5,017.91	1/4	1/4	4,662.49	1/4	4,304.23	1/4	3,945.17	1/4	3,586.10	1/4	3,227.04	1/4	2,867.91	1/4	2,508.65	1/4	2,149.40		
1/2	1/2	5,010.79	1/2	1/2	4,655.03	1/2	4,296.75	1/2	3,937.69	1/2	3,578.62	1/2	3,219.56	1/2	2,860.43	1/2	2,501.17	1/2	2,141.91		
3/4	3/4	5,003.67	3/4	3/4	4,647.58	3/4	4,289.27	3/4	3,930.21	3/4	3,571.14	3/4	3,212.08	3/4	2,852.94	3/4	2,493.69	3/4	2,134.43		
4		4		4	4,640.12	4	4,281.79	4	3,922.73	4	3,563.66	4	3,204.60	4	2,845.46	4	2,486.20	4	2,126.94		
1/4	1/4	4,989.16	1/4	1/4	4,632.66	1/4	4,274.31	1/4	3,915.25	1/4	3,556.18	1/4	3,197.12	1/4	2,837.97	1/4	2,478.72	1/4	2,119.46		
1/2	1/2	4,981.77	1/2	1/2	4,625.20	1/2	4,266.83	1/2	3,907.77	1/2	3,548.70	1/2	3,189.64	1/2	2,830.49	1/2	2,471.23	1/2	2,111.98		
3/4	3/4	4,974.38	3/4	3/4	4,617.74	3/4	4,259.35	3/4	3,900.29	3/4	3,541.22	3/4	3,182.16	3/4	2,823.00	3/4	2,463.75	3/4	2,104.49		
5		5		5	4,610.28	5	4,251.87	5	3,892.80	5	3,533.74	5	3,174.68	5	2,815.52	5	2,456.26	5	2,097.01		
1/4	1/4	4,959.57	1/4	1/4	4,602.82	1/4	4,244.39	1/4	3,885.32	1/4	3,526.26	1/4	3,167.20	1/4	2,808.03	1/4	2,448.78	1/4	2,089.52		
1/2	1/2	4,952.15	1/2	1/2	4,595.36	1/2	4,236.91	1/2	3,877.84	1/2	3,518.78	1/2	3,159.72	1/2	2,800.55	1/2	2,441.29	1/2	2,082.04		
3/4	3/4	4,944.72	3/4	3/4	4,587.91	3/4	4,229.43	3/4	3,870.36	3/4	3,511.30	3/4	3,152.24	3/4	2,793.07	3/4	2,433.81	3/4	2,074.55		
6		6		6	4,937.30	6	4,580.45	6	4,221.95	6	3,862.88	6	3,503.82	6	3,144.75	6	2,785.58	6	2,426.32	6	2,067.07
1/4	1/4	4,929.88	1/4	1/4	4,572.99	1/4	4,214.47	1/4	3,855.40	1/4	3,496.34	1/4	3,137.27	1/4	2,778.10	1/4	2,418.84	1/4	2,059.58		
1/2	1/2	4,922.45	1/2	1/2	4,565.53	1/2	4,206.99	1/2	3,847.92	1/2	3,488.86	1/2	3,129.79	1/2	2,770.61	1/2	2,411.36	1/2	2,052.10		
3/4	3/4	4,915.03	3/4	3/4	4,558.07	3/4	4,199.51	3/4	3,840.44	3/4	3,481.38	3/4	3,122.31	3/4	2,763.13	3/4	2,403.87	3/4	2,044.62		
7		7		7	4,907.61	7	4,550.61	7	4,192.02	7	3,832.96	7	3,473.90	7	3,114.83	7	2,755.64	7	2,396.39	7	2,037.13
1/4	1/4	4,900.19	1/4	1/4	4,543.15	1/4	4,184.54	1/4	3,825.48	1/4	3,466.42	1/4	3,107.35	1/4	2,748.16	1/4	2,388.90	1/4	2,029.65		
1/2	1/2	4,892.76	1/2	1/2	4,535.69	1/2	4,177.06	1/2	3,818.00	1/2	3,458.94	1/2	3,099.87	1/2	2,740.67	1/2	2,381.42	1/2	2,022.16		
3/4	3/4	4,885.34	3/4	3/4	4,528.23	3/4	4,169.58	3/4	3,810.52	3/4	3,451.46	3/4	3,092.39	3/4	2,733.19	3/4	2,373.93	3/4	2,014.68		
8		8		8	4,877.92	8	4,520.78	8	4,162.10	8	3,803.04	8	3,443.97	8	3,084.91	8	2,725.70	8	2,366.45	8	2,007.19
1/4	1/4	4,870.50	1/4	1/4	4,513.32	1/4	4,154.62	1/4	3,795.56	1/4	3,436.49	1/4	3,077.43	1/4	2,718.22	1/4	2,358.96	1/4	1,999.71		
1/2	1/2	4,863.08	1/2	1/2	4,505.86	1/2	4,147.14	1/2	3,788.08	1/2	3,429.01	1/2	3,069.95	1/2	2,710.74	1/2	2,351.48	1/2	1,992.22		
3/4	3/4	4,855.67	3/4	3/4	4,498.40	3/4	4,139.66	3/4	3,780.60	3/4	3,421.53	3/4	3,062.47	3/4	2,703.25	3/4	2,344.00	3/4	1,984.74		
9		9		9	4,848.25	9	4,490.94	9	4,132.18	9	3,773.12	9	3,414.05	9	3,054.99	9	2,695.77	9	2,336.51	9	1,977.25
1/4	1/4	4,840.83	1/4	1/4	4,483.48	1/4	4,124.70	1/4	3,765.64	1/4	3,406.57	1/4	3,047.51	1/4	2,688.28	1/4	2,329.03	1/4	1,969.77		
1/2	1/2	4,833.41	1/2	1/2	4,476.02	1/2	4,117.22	1/2	3,758.16	1/2	3,399.09	1/2	3,040.03	1/2	2,680.80	1/2	2,321.54	1/2	1,962.29		
3/4	3/4	4,825.99	3/4	3/4	4,468.56	3/4	4,109.74	3/4	3,750.68	3/4	3,391.61	3/4	3,032.55	3/4	2,673.31	3/4	2,314.06	3/4	1,954.80		
10		10		10	4,818.57	10	4,461.11	10	4,102.26	10	3,743.19	10	3,384.13	10	3,025.07	10	2,665.83	10	2,306.57	10	1,947.32
1/4	1/4	4,811.15	1/4	1/4	4,453.65	1/4	4,094.78	1/4	3,735.71	1/4	3,376.65	1/4	3,017.59	1/4	2,658.34	1/4	2,299.09	1/4	1,939.83		
1/2	1/2	4,803.73	1/2	1/2	4,446.19	1/2	4,087.30	1/2	3,728.23	1/2	3,369.17	1/2	3,010.11	1/2	2,650.86	1/2	2,291.60	1/2	1,932.35		
3/4	3/4	4,796.31	3/4	3/4	4,438.73	3/4	4,079.82	3/4	3,720.75	3/4	3,361.69	3/4	3,002.63	3/4	2,643.38	3/4	2,284.12	3/4	1,924.86		
11		11		11	4,788.89	11	4,431.27	11	4,072.34	11	3,713.27	11	3,354.21	11	2,995.14	11	2,276.63	11	1,917.38		
1/4	1/4	4,781.48	1/4	1/4	4,423.81	1/4	4,064.86	1/4	3,705.79	1/4	3,346.73	1/4	2,987.66	1/4	2,628.41	1/4	2,269.15	1/4	1,909.89		
1/2	1/2	4,774.06	1/2	1/2	4,416.35	1/2	4,057.38	1/2	3,698.31	1/2	3,339.25	1/2	2,980.18	1/2	2,620.92	1/2	2,261.67	1/2	1,902.41		
3/4	3/4	4,766.64	3/4	3/4	4,408.89	3/4	4,049.90	3/4	3,690.83	3/4	3,331.77	3/4	2,972.70	3/4	2,613.44	3/4	2,254.18	3/4	1,894.93		

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 OF MMC VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "KIRBY 28716"

2 PORT ULLAGE TABLE MMC VALVE GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY " SMS 30032"

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	1,887.44	0	1,528.18	0	1,169.57	0	823.97	0	464.80	0	105.56	0		0		0		0	
1/4	1,879.96	1/4	1,520.70	1/4	1,162.35	1/4	816.51	1/4	457.32	1/4	98.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,872.47	1/2	1,513.22	1/2	1,155.13	1/2	809.04	1/2	449.83	1/2	90.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,864.99	3/4	1,505.73	3/4	1,147.91	3/4	801.58	3/4	442.35	3/4	83.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,857.50	1	1,498.25	1	1,140.69	1	794.11	1	434.87	1	75.62	1		1		1		1	
1/4	1,850.02	1/4	1,490.76	1/4	1,133.49	1/4	786.63	1/4	427.38	1/4	68.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,842.53	1/2	1,483.28	1/2	1,126.30	1/2	779.14	1/2	419.90	1/2	61.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,835.05	3/4	1,475.79	3/4	1,119.11	3/4	771.66	3/4	412.41	3/4	54.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,827.56	2	1,468.31	2	1,111.91	2	764.17	2	404.93	2	47.79	2		2		2		2	
1/4	1,820.08	1/4	1,460.82	1/4	1,104.73	1/4	756.69	1/4	397.44	1/4	42.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,812.60	1/2	1,453.34	1/2	1,097.54	1/2	749.21	1/2	389.96	1/2	36.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,805.11	3/4	1,445.86	3/4	1,090.35	3/4	741.72	3/4	382.48	3/4	31.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,797.63	3	1,438.37	3	1,083.16	3	734.24	3	374.99	3	25.57	3		3		3		3	
1/4	1,790.14	1/4	1,430.89	1/4	1,075.98	1/4	726.75	1/4	367.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,782.66	1/2	1,423.40	1/2	1,068.79	1/2	719.27	1/2	360.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,775.17	3/4	1,415.92	3/4	1,061.61	3/4	711.78	3/4	352.54	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,767.69	4	1,408.43	4	1,054.43	4	704.30	4	345.05	4	4	4		4		4		4	
1/4	1,760.20	1/4	1,400.95	1/4	1,047.25	1/4	696.82	1/4	337.57	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,752.72	1/2	1,393.46	1/2	1,040.06	1/2	689.33	1/2	330.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,745.24	3/4	1,385.98	3/4	1,032.88	3/4	681.85	3/4	322.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,737.75	5	1,378.49	5	1,025.70	5	674.36	5	315.12	5	5	5		5		5		5	
1/4	1,730.27	1/4	1,371.01	1/4	1,018.52	1/4	666.88	1/4	307.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,722.78	1/2	1,363.53	1/2	1,011.34	1/2	659.39	1/2	300.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,715.30	3/4	1,356.04	3/4	1,004.16	3/4	651.91	3/4	292.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,707.81	6	1,348.56	6	996.98	6	644.43	6	285.18	6	6	6		6		6		6	
1/4	1,700.33	1/4	1,341.07	1/4	989.80	1/4	636.94	1/4	277.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,692.84	1/2	1,333.59	1/2	982.62	1/2	629.46	1/2	270.21	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,685.36	3/4	1,326.10	3/4	975.44	3/4	621.97	3/4	262.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,677.87	7	1,318.62	7	968.26	7	614.49	7	255.24	7	7	7		7		7		7	
1/4	1,670.39	1/4	1,311.13	1/4	961.08	1/4	607.00	1/4	247.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,662.91	1/2	1,303.65	1/2	953.90	1/2	599.52	1/2	240.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,655.42	3/4	1,296.17	3/4	946.72	3/4	592.04	3/4	232.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,647.94	8	1,288.68	8	939.54	8	584.55	8	225.30	8	8	8		8		8		8	
1/4	1,640.45	1/4	1,281.20	1/4	932.36	1/4	577.07	1/4	217.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,632.97	1/2	1,273.71	1/2	925.18	1/2	569.58	1/2	210.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,625.48	3/4	1,266.23	3/4	918.00	3/4	562.10	3/4	202.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,618.00	9	1,258.74	9	910.82	9	554.61	9	195.37	9	9	9		9		9		9	
1/4	1,610.51	1/4	1,251.26	1/4	903.64	1/4	547.13	1/4	187.88	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,603.03	1/2	1,243.77	1/2	896.46	1/2	539.65	1/2	180.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,595.55	3/4	1,236.29	3/4	889.28	3/4	532.16	3/4	172.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,588.06	10	1,228.80	10	882.10	10	524.68	10	165.43	10	10	10		10		10		10	
1/4	1,580.58	1/4	1,221.32	1/4	874.92	1/4	517.19	1/4	157.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,573.09	1/2	1,213.84	1/2	867.74	1/2	509.71	1/2	150.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,565.61	3/4	1,206.35	3/4	860.56	3/4	502.22	3/4	142.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,558.12	11	1,198.87	11	853.38	11	494.74	11	135.49	11	11	11		11		11		11	
1/4	1,550.64	1/4	1,191.54	1/4	846.03	1/4	487.26	1/4	128.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,543.15	1/2	1,184.22	1/2	838.68	1/2	479.77	1/2	120.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,535.67	3/4	1,176.89	3/4	831.32	3/4	472.29	3/4	113.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2012 CL - SW
CALCULATED: 07/12/2012 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

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



BARGE "KIRBY 28716"

2 STBD

ULLAGE TABLE

MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0		0	5,095.70	0	4,759.44	0	4,401.47	0	4,042.34	0	3,683.19	0	3,324.04	0	2,964.87	0	2,605.53	0	2,246.18
1/4	1/4	1/4	5,091.22	1/4	4,752.02	1/4	4,393.99	1/4	4,034.86	1/4	3,675.71	1/4	3,316.56	1/4	2,957.38	1/4	2,598.04	1/4	2,238.70
1/2	1/2	1/2	5,086.73	1/2	4,744.60	1/2	4,386.52	1/2	4,027.38	1/2	3,668.23	1/2	3,309.08	1/2	2,949.90	1/2	2,590.55	1/2	2,231.21
3/4	3/4	3/4	5,081.45	3/4	4,737.16	3/4	4,379.04	3/4	4,019.89	3/4	3,660.74	3/4	3,301.59	3/4	2,942.41	3/4	2,583.07	3/4	2,223.72
1		1	5,076.16	1	4,729.71	1	4,371.56	1	4,012.41	1	3,653.26	1	3,294.11	1	2,934.92	1	2,575.58	1	2,216.24
1/4	1/4	1/4	5,070.87	1/4	4,722.27	1/4	4,364.08	1/4	4,004.93	1/4	3,645.78	1/4	3,286.63	1/4	2,927.44	1/4	2,568.09	1/4	2,208.75
1/2	1/2	1/2	5,065.59	1/2	4,714.83	1/2	4,356.60	1/2	3,997.45	1/2	3,638.30	1/2	3,279.15	1/2	2,919.95	1/2	2,560.61	1/2	2,201.27
3/4	3/4	3/4	5,059.23	3/4	4,707.37	3/4	4,349.12	3/4	3,989.97	3/4	3,630.81	3/4	3,271.66	3/4	2,912.46	3/4	2,553.12	3/4	2,193.78
2		2	5,052.88	2	4,699.91	2	4,341.63	2	3,982.48	2	3,623.33	2	3,264.18	2	2,904.98	2	2,545.63	2	2,186.29
1/4	1/4	1/4	5,046.52	1/4	4,692.45	1/4	4,334.15	1/4	3,975.00	1/4	3,615.85	1/4	3,256.70	1/4	2,897.49	1/4	2,538.15	1/4	2,178.81
1/2	1/2	1/2	5,040.17	1/2	4,684.99	1/2	4,326.67	1/2	3,967.52	1/2	3,608.37	1/2	3,249.22	1/2	2,890.00	1/2	2,530.66	1/2	2,171.32
3/4	3/4	3/4	5,033.04	3/4	4,677.53	3/4	4,319.19	3/4	3,960.04	3/4	3,600.89	3/4	3,241.74	3/4	2,882.52	3/4	2,523.18	3/4	2,163.83
3		3	5,025.92	3	4,670.07	3	4,311.70	3	3,952.55	3	3,593.40	3	3,234.25	3	2,875.03	3	2,515.69	3	2,156.35
1/4	1/4	1/4	5,018.80	1/4	4,662.61	1/4	4,304.22	1/4	3,945.07	1/4	3,585.92	1/4	3,226.77	1/4	2,867.55	1/4	2,508.20	1/4	2,148.86
1/2	1/2	1/2	5,011.67	1/2	4,655.15	1/2	4,296.74	1/2	3,937.59	1/2	3,578.44	1/2	3,219.29	1/2	2,860.06	1/2	2,500.72	1/2	2,141.37
3/4	3/4	3/4	5,004.28	3/4	4,647.69	3/4	4,289.26	3/4	3,930.11	3/4	3,570.96	3/4	3,211.81	3/4	2,852.57	3/4	2,493.23	3/4	2,133.89
4		4	4,996.89	4	4,640.23	4	4,281.78	4	3,922.62	4	3,563.47	4	3,204.32	4	2,845.09	4	2,485.74	4	2,126.40
1/4	1/4	1/4	4,989.50	1/4	4,632.77	1/4	4,274.29	1/4	3,915.14	1/4	3,555.99	1/4	3,196.84	1/4	2,837.60	1/4	2,478.26	1/4	2,118.92
1/2	1/2	1/2	4,982.11	1/2	4,625.31	1/2	4,266.81	1/2	3,907.66	1/2	3,548.51	1/2	3,189.36	1/2	2,830.11	1/2	2,470.77	1/2	2,111.43
3/4	3/4	3/4	4,974.68	3/4	4,617.85	3/4	4,259.33	3/4	3,900.18	3/4	3,541.03	3/4	3,181.88	3/4	2,822.63	3/4	2,463.29	3/4	2,103.94
5		5	4,967.26	5	4,610.39	5	4,251.85	5	3,892.70	5	3,533.55	5	3,174.39	5	2,815.14	5	2,455.80	5	2,096.46
1/4	1/4	1/4	4,959.83	1/4	4,602.93	1/4	4,244.36	1/4	3,885.21	1/4	3,526.06	1/4	3,166.91	1/4	2,807.66	1/4	2,448.31	1/4	2,088.97
1/2	1/2	1/2	4,952.41	1/2	4,595.47	1/2	4,236.88	1/2	3,877.73	1/2	3,518.58	1/2	3,159.43	1/2	2,800.17	1/2	2,440.83	1/2	2,081.48
3/4	3/4	3/4	4,944.98	3/4	4,588.01	3/4	4,229.40	3/4	3,870.25	3/4	3,511.10	3/4	3,151.95	3/4	2,792.68	3/4	2,433.34	3/4	2,074.00
6		6	4,937.56	6	4,580.55	6	4,221.92	6	3,862.77	6	3,503.62	6	3,144.47	6	2,785.20	6	2,425.85	6	2,066.51
1/4	1/4	1/4	4,930.13	1/4	4,573.09	1/4	4,214.43	1/4	3,855.28	1/4	3,496.13	1/4	3,136.98	1/4	2,777.71	1/4	2,418.37	1/4	2,059.03
1/2	1/2	1/2	4,922.71	1/2	4,565.62	1/2	4,206.95	1/2	3,847.80	1/2	3,488.65	1/2	3,129.50	1/2	2,770.22	1/2	2,410.88	1/2	2,051.54
3/4	3/4	3/4	4,915.28	3/4	4,558.16	3/4	4,199.47	3/4	3,840.32	3/4	3,481.17	3/4	3,122.02	3/4	2,762.74	3/4	2,403.40	3/4	2,044.05
7		7	4,907.86	7	4,550.70	7	4,191.99	7	3,832.84	7	3,473.69	7	3,114.54	7	2,755.25	7	2,395.91	7	2,036.57
1/4	1/4	1/4	4,900.44	1/4	4,543.24	1/4	4,184.51	1/4	3,825.35	1/4	3,466.20	1/4	3,107.05	1/4	2,747.77	1/4	2,388.42	1/4	2,029.08
1/2	1/2	1/2	4,893.02	1/2	4,535.78	1/2	4,177.02	1/2	3,817.87	1/2	3,458.72	1/2	3,099.57	1/2	2,740.28	1/2	2,380.94	1/2	2,021.59
3/4	3/4	3/4	4,885.59	3/4	4,528.32	3/4	4,169.54	3/4	3,810.39	3/4	3,451.24	3/4	3,092.09	3/4	2,732.79	3/4	2,373.45	3/4	2,014.11
8		8	4,878.17	8	4,520.86	8	4,162.06	8	3,802.91	8	3,443.76	8	3,084.61	8	2,725.31	8	2,365.96	8	2,006.62
1/4	1/4	1/4	4,870.75	1/4	4,513.40	1/4	4,154.58	1/4	3,795.43	1/4	3,436.28	1/4	3,077.12	1/4	2,717.82	1/4	2,358.48	1/4	1,999.14
1/2	1/2	1/2	4,863.33	1/2	4,505.94	1/2	4,147.09	1/2	3,787.94	1/2	3,428.79	1/2	3,069.64	1/2	2,710.33	1/2	2,350.99	1/2	1,991.65
3/4	3/4	3/4	4,855.91	3/4	4,498.48	3/4	4,139.61	3/4	3,780.46	3/4	3,421.31	3/4	3,062.16	3/4	2,702.85	3/4	2,343.50	3/4	1,984.16
9		9	4,848.49	9	4,491.02	9	4,132.13	9	3,772.98	9	3,413.83	9	3,054.68	9	2,695.36	9	2,336.02	9	1,976.68
1/4	1/4	1/4	4,841.07	1/4	4,483.56	1/4	4,124.65	1/4	3,765.50	1/4	3,406.35	1/4	3,047.20	1/4	2,687.87	1/4	2,328.53	1/4	1,969.19
1/2	1/2	1/2	4,833.65	1/2	4,476.10	1/2	4,117.16	1/2	3,758.01	1/2	3,398.86	1/2	3,039.71	1/2	2,680.39	1/2	2,321.05	1/2	1,961.70
3/4	3/4	3/4	4,826.23	3/4	4,468.64	3/4	4,109.68	3/4	3,750.53	3/4	3,391.38	3/4	3,032.23	3/4	2,672.90	3/4	2,313.56	3/4	1,954.22
10		10	4,818.81	10	4,461.18	10	4,102.20	10	3,743.05	10	3,383.90	10	3,024.75	10	2,665.42	10	2,306.07	10	1,946.73
1/4	1/4	1/4	4,811.39	1/4	4,453.72	1/4	4,094.72	1/4	3,735.57	1/4	3,376.42	1/4	3,017.27	1/4	2,657.93	1/4	2,298.59	1/4	1,939.24
1/2	1/2	1/2	4,803.97	1/2	4,446.26	1/2	4,087.24	1/2	3,728.08	1/2	3,368.93	1/2	3,009.78	1/2	2,650.44	1/2	2,291.10	1/2	1,931.76
3/4	3/4	3/4	4,796.54	3/4	4,438.79	3/4	4,079.75	3/4	3,720.60	3/4	3,361.45	3/4	3,002.30	3/4	2,642.96	3/4	2,283.61	3/4	1,924.27
11		11	4,789.12	11	4,431.33	11	4,072.27	11	3,713.12	11	3,353.97	11	2,994.81	11	2,635.47	11	2,276.13	11	1,916.79
1/4	1/4	1/4	4,781.70	1/4	4,423.87	1/4	4,064.79	1/4	3,705.64	1/4	3,346.49	1/4	2,987.33	1/4	2,627.98	1/4	2,268.64	1/4	1,909.30
1/2	1/2	1/2	4,774.28	1/2	4,416.41	1/2	4,057.31	1/2	3,698.16	1/2	3,339.01	1/2	2,979.85	1/2	2,620.50	1/2	2,261.16	1/2	1,901.81
3/4	3/4	3/4	4,766.86	3/4	4,408.94	3/4	4,049.82	3/4	3,690.67	3/4	3,331.52	3/4	2,972.36	3/4	2,613.01	3/4	2,253.67	3/4	1,894.33

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" MMC VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-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 "KIRBY 28716"

2 STBD ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY " SMS 30032"

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,886.84	0	1,527.50	0	1,168.16	0	809.27	0	449.94	0	90.61	0		0		0		0	
1/4	1,879.35	1/4	1,520.01	1/4	1,160.67	1/4	801.79	1/4	442.45	1/4	83.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,871.87	1/2	1,512.53	1/2	1,153.18	1/2	794.30	1/2	434.97	1/2	75.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,864.38	3/4	1,505.04	3/4	1,145.70	3/4	786.81	3/4	427.48	3/4	68.68	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,856.90	1	1,497.55	1	1,138.22	1	779.33	1	420.00	1	61.72	1		1		1		1	
1/4	1,849.41	1/4	1,490.07	1/4	1,130.73	1/4	771.84	1/4	412.51	1/4	54.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,841.92	1/2	1,482.58	1/2	1,123.25	1/2	764.36	1/2	405.02	1/2	47.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,834.44	3/4	1,475.09	3/4	1,115.77	3/4	756.87	3/4	397.54	3/4	42.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,826.95	2	1,467.61	2	1,108.29	2	749.38	2	390.05	2	36.68	2		2		2		2	
1/4	1,819.46	1/4	1,460.12	1/4	1,100.81	1/4	741.90	1/4	382.56	1/4	31.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,811.98	1/2	1,452.64	1/2	1,093.33	1/2	734.41	1/2	375.08	1/2	25.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,804.49	3/4	1,445.15	3/4	1,085.85	3/4	726.93	3/4	367.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,797.00	3	1,437.66	3	1,078.37	3	719.44	3	360.11	3		3		3		3		3	
1/4	1,789.52	1/4	1,430.18	1/4	1,070.90	1/4	711.95	1/4	352.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,782.03	1/2	1,422.69	1/2	1,063.42	1/2	704.47	1/2	345.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,774.55	3/4	1,415.20	3/4	1,055.95	3/4	696.98	3/4	337.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,767.06	4	1,407.72	4	1,048.47	4	689.49	4	330.16	4		4		4		4		4	
1/4	1,759.57	1/4	1,400.23	1/4	1,041.00	1/4	682.01	1/4	322.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,752.09	1/2	1,392.74	1/2	1,033.53	1/2	674.52	1/2	315.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,744.60	3/4	1,385.26	3/4	1,026.05	3/4	667.04	3/4	307.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,737.11	5	1,377.77	5	1,018.58	5	659.55	5	300.22	5		5		5		5		5	
1/4	1,729.63	1/4	1,370.29	1/4	1,011.11	1/4	652.06	1/4	292.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,722.14	1/2	1,362.80	1/2	1,003.63	1/2	644.58	1/2	285.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,714.66	3/4	1,355.31	3/4	996.16	3/4	637.09	3/4	277.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,707.17	6	1,347.83	6	988.69	6	629.61	6	270.27	6		6		6		6		6	
1/4	1,699.68	1/4	1,340.34	1/4	981.21	1/4	622.12	1/4	262.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,692.20	1/2	1,332.85	1/2	973.74	1/2	614.63	1/2	255.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,684.71	3/4	1,325.37	3/4	966.26	3/4	607.15	3/4	247.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,677.22	7	1,317.88	7	958.79	7	599.66	7	240.33	7		7		7		7		7	
1/4	1,669.74	1/4	1,310.40	1/4	951.32	1/4	592.18	1/4	232.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,662.25	1/2	1,302.91	1/2	943.84	1/2	584.69	1/2	225.36	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,654.77	3/4	1,295.42	3/4	936.37	3/4	577.20	3/4	217.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,647.28	8	1,287.94	8	928.90	8	569.72	8	210.38	8		8		8		8		8	
1/4	1,639.79	1/4	1,280.45	1/4	921.42	1/4	562.23	1/4	202.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,632.31	1/2	1,272.96	1/2	913.95	1/2	554.75	1/2	195.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,624.82	3/4	1,265.48	3/4	906.48	3/4	547.26	3/4	187.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,617.33	9	1,257.99	9	899.00	9	539.77	9	180.44	9		9		9		9		9	
1/4	1,609.85	1/4	1,250.51	1/4	891.53	1/4	532.29	1/4	172.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,602.36	1/2	1,243.02	1/2	884.06	1/2	524.80	1/2	165.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,594.87	3/4	1,235.53	3/4	876.58	3/4	517.31	3/4	157.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,587.39	10	1,228.05	10	869.11	10	509.83	10	150.50	10		10		10		10		10	
1/4	1,579.90	1/4	1,220.56	1/4	861.64	1/4	502.34	1/4	143.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,572.42	1/2	1,213.07	1/2	854.16	1/2	494.86	1/2	135.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,564.93	3/4	1,205.59	3/4	846.68	3/4	487.37	3/4	128.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,557.44	11	1,198.10	11	839.20	11	479.88	11	120.55	11		11		11		11		11	
1/4	1,549.96	1/4	1,190.61	1/4	831.72	1/4	472.40	1/4	113.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,542.47	1/2	1,183.13	1/2	824.24	1/2	464.91	1/2	105.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,534.98	3/4	1,175.64	3/4	816.76	3/4	457.43	3/4	98.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2012 CL - SW
CALCULATED: 07/12/2012 CL
NAME CHANG: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28716"

3 PORT ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	4,026.82	0	3,891.17	0	3,754.68	0	3,618.15	0	3,312.35	0	2,955.71	0	2,598.79	0	2,242.84
1/4	1/4	1/4	1/4	1/4	4,024.02	1/4	3,888.34	1/4	3,751.84	1/4	3,615.31	1/4	3,304.94	1/4	2,948.28	1/4	2,591.35	1/4	2,235.46
1/2	1/2	1/2	1/2	1/2	4,021.22	1/2	3,885.51	1/2	3,749.00	1/2	3,612.46	1/2	3,297.53	1/2	2,940.84	1/2	2,583.91	1/2	2,228.07
3/4	3/4	3/4	3/4	3/4	4,133.78	3/4	4,018.41	3/4	3,882.67	3/4	3,746.15	3/4	3,609.62	3/4	3,290.12	3/4	2,933.41	3/4	2,220.69
1		1		1	4,015.61	1	3,879.83	1	3,743.31	1	3,606.78	1	3,282.70	1	2,925.97	1	2,569.03	1	2,213.31
1/4	1/4	1/4	1/4	1/4	4,013.53	1/4	4,012.81	1/4	3,876.99	1/4	3,740.46	1/4	3,603.93	1/4	3,275.29	1/4	2,918.54	1/4	2,561.58
1/2	1/2	1/2	1/2	1/2	4,133.41	1/2	4,010.00	1/2	3,874.15	1/2	3,737.62	1/2	3,601.09	1/2	3,267.88	1/2	2,911.10	1/2	2,554.14
3/4	3/4	3/4	3/4	3/4	4,132.46	3/4	4,007.18	3/4	3,871.30	3/4	3,734.77	3/4	3,598.24	3/4	3,260.45	3/4	2,903.66	3/4	2,546.70
2		2		2	4,004.36	2	3,868.46	2	3,731.93	2	3,595.40	2	3,253.03	2	2,896.23	2	2,539.25	2	2,183.79
1/4	1/4	1/4	1/4	1/4	4,130.58	1/4	4,001.53	1/4	3,865.62	1/4	3,729.08	1/4	3,592.55	1/4	3,245.60	1/4	2,888.79	1/4	2,531.81
1/2	1/2	1/2	1/2	1/2	4,129.64	1/2	3,998.71	1/2	3,862.77	1/2	3,726.24	1/2	3,589.71	1/2	3,238.17	1/2	2,881.36	1/2	2,524.37
3/4	3/4	3/4	3/4	3/4	4,127.64	3/4	3,995.88	3/4	3,859.93	3/4	3,723.40	3/4	3,583.41	3/4	3,230.74	3/4	2,873.92	3/4	2,516.93
3		3		3	3,993.05	3	3,857.08	3	3,720.55	3	3,577.11	3	3,223.31	3	2,866.49	3	2,509.48	3	2,154.27
1/4	1/4	1/4	1/4	1/4	4,123.63	1/4	3,990.22	1/4	3,854.24	1/4	3,717.71	1/4	3,570.80	1/4	3,215.87	1/4	2,859.05	1/4	2,502.04
1/2	1/2	1/2	1/2	1/2	4,121.62	1/2	3,987.39	1/2	3,851.39	1/2	3,714.86	1/2	3,564.50	1/2	3,208.44	1/2	2,851.62	1/2	2,494.60
3/4	3/4	3/4	3/4	3/4	4,118.95	3/4	3,984.56	3/4	3,848.55	3/4	3,712.02	3/4	3,557.07	3/4	3,201.01	3/4	2,844.18	3/4	2,487.18
4		4		4	3,981.73	4	3,845.70	4	3,709.17	4	3,549.64	4	3,193.57	4	2,836.74	4	2,479.77	4	2,124.75
1/4	1/4	1/4	1/4	1/4	4,113.60	1/4	3,978.90	1/4	3,842.86	1/4	3,706.33	1/4	3,542.21	1/4	3,186.14	1/4	2,829.31	1/4	2,472.36
1/2	1/2	1/2	1/2	1/2	4,110.93	1/2	3,976.07	1/2	3,840.02	1/2	3,703.48	1/2	3,534.78	1/2	3,178.71	1/2	2,821.87	1/2	2,464.94
3/4	3/4	3/4	3/4	3/4	4,108.13	3/4	3,973.24	3/4	3,837.17	3/4	3,700.64	3/4	3,527.35	3/4	3,171.27	3/4	2,814.44	3/4	2,457.54
5		5		5	3,970.41	5	3,834.33	5	3,697.80	5	3,519.93	5	3,163.84	5	2,807.00	5	2,450.13	5	2,095.23
1/4	1/4	1/4	1/4	1/4	4,102.52	1/4	3,967.58	1/4	3,831.48	1/4	3,694.95	1/4	3,512.51	1/4	3,156.41	1/4	2,799.57	1/4	2,442.73
1/2	1/2	1/2	1/2	1/2	4,099.71	1/2	3,964.75	1/2	3,828.64	1/2	3,692.11	1/2	3,505.08	1/2	3,148.98	1/2	2,792.13	1/2	2,435.32
3/4	3/4	3/4	3/4	3/4	4,096.91	3/4	3,961.92	3/4	3,825.79	3/4	3,689.26	3/4	3,497.67	3/4	3,141.54	3/4	2,784.69	3/4	2,427.92
6		6		6	3,959.09	6	3,822.95	6	3,686.42	6	3,490.25	6	3,134.11	6	2,777.26	6	2,420.51	6	2,065.71
1/4	1/4	1/4	1/4	1/4	4,091.30	1/4	3,956.26	1/4	3,820.11	1/4	3,683.57	1/4	3,482.84	1/4	3,126.68	1/4	2,769.82	1/4	2,413.11
1/2	1/2	1/2	1/2	1/2	4,088.49	1/2	3,953.43	1/2	3,817.26	1/2	3,680.73	1/2	3,475.42	1/2	3,119.24	1/2	2,762.39	1/2	2,405.71
3/4	3/4	3/4	3/4	3/4	4,085.69	3/4	3,950.60	3/4	3,814.42	3/4	3,677.89	3/4	3,468.01	3/4	3,111.81	3/4	2,754.95	3/4	2,398.30
7		7		7	3,947.77	7	3,811.57	7	3,675.04	7	3,460.60	7	3,104.38	7	2,747.52	7	2,390.90	7	2,036.19
1/4	1/4	1/4	1/4	1/4	4,080.07	1/4	3,944.94	1/4	3,808.73	1/4	3,672.20	1/4	3,453.19	1/4	3,096.94	1/4	2,740.08	1/4	2,383.49
1/2	1/2	1/2	1/2	1/2	4,077.27	1/2	3,942.11	1/2	3,805.88	1/2	3,669.35	1/2	3,445.77	1/2	3,089.51	1/2	2,732.65	1/2	2,376.09
3/4	3/4	3/4	3/4	3/4	4,074.47	3/4	3,939.28	3/4	3,803.04	3/4	3,666.51	3/4	3,438.36	3/4	3,082.08	3/4	2,725.21	3/4	2,368.68
8		8		8	3,936.45	8	3,800.19	8	3,663.66	8	3,430.95	8	3,074.65	8	2,717.77	8	2,361.28	8	2,014.67
1/4	1/4	1/4	1/4	1/4	4,068.86	1/4	3,933.62	1/4	3,797.35	1/4	3,660.82	1/4	3,423.54	1/4	3,067.21	1/4	2,710.34	1/4	2,353.87
1/2	1/2	1/2	1/2	1/2	4,066.06	1/2	3,930.79	1/2	3,794.51	1/2	3,657.97	1/2	3,416.12	1/2	3,059.78	1/2	2,702.90	1/2	2,346.47
3/4	3/4	3/4	3/4	3/4	4,063.25	3/4	3,927.96	3/4	3,791.66	3/4	3,655.13	3/4	3,408.71	3/4	3,052.35	3/4	2,695.47	3/4	2,339.07
9		9		9	3,925.13	9	3,788.82	9	3,652.29	9	3,401.30	9	3,044.91	9	2,688.03	9	2,331.66	9	1,977.15
1/4	1/4	1/4	1/4	1/4	4,057.65	1/4	3,922.30	1/4	3,785.97	1/4	3,649.44	1/4	3,393.89	1/4	3,037.48	1/4	2,680.60	1/4	2,324.26
1/2	1/2	1/2	1/2	1/2	4,054.85	1/2	3,919.47	1/2	3,783.13	1/2	3,646.60	1/2	3,386.48	1/2	3,030.05	1/2	2,673.16	1/2	2,316.85
3/4	3/4	3/4	3/4	3/4	4,052.04	3/4	3,916.64	3/4	3,780.28	3/4	3,643.75	3/4	3,379.06	3/4	3,022.61	3/4	2,665.73	3/4	2,309.45
10		10		10	3,913.81	10	3,777.44	10	3,640.91	10	3,371.65	10	3,015.18	10	2,658.29	10	2,302.04	10	1,947.63
1/4	1/4	1/4	1/4	1/4	4,046.44	1/4	3,910.98	1/4	3,774.59	1/4	3,638.06	1/4	3,364.24	1/4	3,007.75	1/4	2,650.85	1/4	2,294.64
1/2	1/2	1/2	1/2	1/2	4,043.64	1/2	3,908.15	1/2	3,771.75	1/2	3,635.22	1/2	3,356.83	1/2	3,000.32	1/2	2,643.42	1/2	2,287.23
3/4	3/4	3/4	3/4	3/4	4,040.83	3/4	3,905.32	3/4	3,768.91	3/4	3,632.37	3/4	3,349.41	3/4	2,992.88	3/4	2,635.98	3/4	2,279.83
11		11		11	3,902.49	11	3,766.06	11	3,629.53	11	3,342.00	11	2,985.45	11	2,628.55	11	2,272.42	11	1,918.11
1/4	1/4	1/4	1/4	1/4	4,035.23	1/4	3,899.66	1/4	3,763.22	1/4	3,626.69	1/4	3,334.59	1/4	2,978.02	1/4	2,621.11	1/4	2,265.02
1/2	1/2	1/2	1/2	1/2	4,032.43	1/2	3,896.83	1/2	3,760.37	1/2	3,623.84	1/2	3,327.18	1/2	2,970.58	1/2	2,613.68	1/2	2,257.62
3/4	3/4	3/4	3/4	3/4	4,029.62	3/4	3,894.00	3/4	3,757.53	3/4	3,621.00	3/4	3,319.77	3/4	2,963.15	3/4	2,606.24	3/4	2,250.23

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 OF MMC VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 56'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28716"

3 PORT ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-03 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	1,888.49	0	1,531.26	0	1,174.31	0	827.43	0	470.09	0	112.64	0		0		0		0	
1/4	1,881.07	1/4	1,523.82	1/4	1,167.03	1/4	820.04	1/4	462.64	1/4	105.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,873.64	1/2	1,516.38	1/2	1,159.74	1/2	812.65	1/2	455.19	1/2	97.74	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,866.20	3/4	1,508.93	3/4	1,152.51	3/4	805.21	3/4	447.75	3/4	90.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,858.75	1	1,501.49	1	1,145.28	1	797.76	1	440.30	1	82.82	1		1		1		1	
1/4	1,851.31	1/4	1,494.05	1/4	1,138.05	1/4	790.31	1/4	432.86	1/4	75.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,843.87	1/2	1,486.60	1/2	1,130.81	1/2	782.87	1/2	425.41	1/2	67.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,836.43	3/4	1,479.16	3/4	1,123.59	3/4	775.42	3/4	417.96	3/4	61.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,828.98	2	1,471.72	2	1,116.37	2	767.97	2	410.52	2	54.39	2		2		2		2	
1/4	1,821.54	1/4	1,464.28	1/4	1,109.14	1/4	760.52	1/4	403.07	1/4	47.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,814.10	1/2	1,456.83	1/2	1,101.92	1/2	753.08	1/2	395.63	1/2	40.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,806.65	3/4	1,449.39	3/4	1,094.70	3/4	745.63	3/4	388.18	3/4	35.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,799.21	3	1,441.95	3	1,087.48	3	738.18	3	380.73	3	30.61	3		3		3		3	
1/4	1,791.77	1/4	1,434.50	1/4	1,080.26	1/4	730.74	1/4	373.29	1/4	25.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,784.32	1/2	1,427.06	1/2	1,073.04	1/2	723.29	1/2	365.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,776.88	3/4	1,419.62	3/4	1,065.82	3/4	715.84	3/4	358.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,769.44	4	1,412.17	4	1,058.61	4	708.39	4	350.95	4		4		4		4		4	
1/4	1,762.00	1/4	1,404.73	1/4	1,051.39	1/4	700.95	1/4	343.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,754.55	1/2	1,397.29	1/2	1,044.18	1/2	693.50	1/2	336.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,747.11	3/4	1,389.85	3/4	1,036.96	3/4	686.05	3/4	328.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,739.67	5	1,382.40	5	1,029.75	5	678.60	5	321.17	5		5		5		5		5	
1/4	1,732.22	1/4	1,374.96	1/4	1,022.54	1/4	671.16	1/4	313.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,724.78	1/2	1,367.52	1/2	1,015.32	1/2	663.71	1/2	306.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,717.34	3/4	1,360.07	3/4	1,008.11	3/4	656.26	3/4	298.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,709.89	6	1,352.63	6	1,000.90	6	648.82	6	291.38	6		6		6		6		6	
1/4	1,702.45	1/4	1,345.19	1/4	993.68	1/4	641.37	1/4	283.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,695.01	1/2	1,337.74	1/2	986.47	1/2	633.92	1/2	276.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,687.57	3/4	1,330.30	3/4	979.26	3/4	626.47	3/4	269.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,680.12	7	1,322.86	7	972.04	7	619.03	7	261.60	7		7		7		7		7	
1/4	1,672.68	1/4	1,315.42	1/4	964.83	1/4	611.58	1/4	254.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,665.24	1/2	1,307.97	1/2	957.62	1/2	604.13	1/2	246.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,657.79	3/4	1,300.53	3/4	950.40	3/4	596.69	3/4	239.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,650.35	8	1,293.09	8	943.19	8	589.24	8	231.82	8		8		8		8		8	
1/4	1,642.91	1/4	1,285.64	1/4	935.98	1/4	581.79	1/4	224.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,635.46	1/2	1,278.20	1/2	928.77	1/2	574.34	1/2	216.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,628.02	3/4	1,270.76	3/4	921.55	3/4	566.90	3/4	209.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,620.58	9	1,263.31	9	914.34	9	559.45	9	202.03	9		9		9		9		9	
1/4	1,613.14	1/4	1,255.87	1/4	907.13	1/4	552.00	1/4	194.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,605.69	1/2	1,248.43	1/2	899.91	1/2	544.56	1/2	187.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,598.25	3/4	1,240.99	3/4	892.70	3/4	537.11	3/4	179.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,590.81	10	1,233.54	10	885.49	10	529.66	10	172.24	10		10		10		10		10	
1/4	1,583.36	1/4	1,226.10	1/4	878.27	1/4	522.21	1/4	164.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,575.92	1/2	1,218.66	1/2	871.06	1/2	514.77	1/2	157.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,568.48	3/4	1,211.21	3/4	863.85	3/4	507.32	3/4	149.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,561.03	11	1,203.77	11	856.63	11	499.87	11	142.45	11		11		11		11		11	
1/4	1,553.59	1/4	1,196.33	1/4	849.42	1/4	492.42	1/4	135.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,546.15	1/2	1,188.88	1/2	842.21	1/2	484.98	1/2	127.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,538.71	3/4	1,181.60	3/4	834.82	3/4	477.53	3/4	120.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2012 CL - SW
CALCULATED: 07/12/2012 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28716"

3 STBD

ULLAGE TABLE

MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,154.12	0	4,038.83	0	3,903.18	0	3,766.74	0	3,630.30	0	3,310.39	0	2,952.99	0	2,595.35	0	2,237.40
1/4	1/4	1/4	4,154.00	1/4	4,036.03	1/4	3,900.34	1/4	3,763.90	1/4	3,627.45	1/4	3,302.96	1/4	2,945.54	1/4	2,587.89	1/4	2,229.94
1/2	1/2	1/2	4,153.87	1/2	4,033.23	1/2	3,897.50	1/2	3,761.06	1/2	3,624.61	1/2	3,295.54	1/2	2,938.09	1/2	2,580.43	1/2	2,222.48
3/4	3/4	3/4	4,153.75	3/4	4,030.42	3/4	3,894.66	3/4	3,758.21	3/4	3,621.77	3/4	3,288.11	3/4	2,930.64	3/4	2,572.98	3/4	2,215.03
1		1	4,152.81	1	4,027.60	1	3,891.82	1	3,755.37	1	3,618.93	1	3,280.67	1	2,923.19	1	2,565.52	1	2,207.57
1/4	1/4	1/4	4,151.87	1/4	4,024.78	1/4	3,888.97	1/4	3,752.53	1/4	3,616.08	1/4	3,273.22	1/4	2,915.74	1/4	2,558.06	1/4	2,200.11
1/2	1/2	1/2	4,150.93	1/2	4,021.96	1/2	3,886.13	1/2	3,749.69	1/2	3,613.24	1/2	3,265.78	1/2	2,908.29	1/2	2,550.61	1/2	2,192.65
3/4	3/4	3/4	4,149.99	3/4	4,019.14	3/4	3,883.29	3/4	3,746.84	3/4	3,610.40	3/4	3,258.34	3/4	2,900.84	3/4	2,543.15	3/4	2,185.20
2		2	4,147.99	2	4,016.31	2	3,880.45	2	3,744.00	2	3,604.10	2	3,250.89	2	2,893.39	2	2,535.69	2	2,177.74
1/4	1/4	1/4	4,145.98	1/4	4,013.48	1/4	3,877.60	1/4	3,741.16	1/4	3,597.80	1/4	3,243.45	1/4	2,885.94	1/4	2,528.23	1/4	2,170.28
1/2	1/2	1/2	4,143.98	1/2	4,010.65	1/2	3,874.76	1/2	3,738.32	1/2	3,591.50	1/2	3,236.00	1/2	2,878.49	1/2	2,520.78	1/2	2,162.83
3/4	3/4	3/4	4,141.97	3/4	4,007.83	3/4	3,871.92	3/4	3,735.47	3/4	3,585.20	3/4	3,228.55	3/4	2,871.04	3/4	2,513.32	3/4	2,155.37
3		3	4,139.30	3	4,005.00	3	3,869.08	3	3,732.63	3	3,577.77	3	3,221.10	3	2,863.59	3	2,505.86	3	2,147.91
1/4	1/4	1/4	4,136.63	1/4	4,002.17	1/4	3,866.23	1/4	3,729.79	1/4	3,570.34	1/4	3,213.66	1/4	2,856.14	1/4	2,498.40	1/4	2,140.45
1/2	1/2	1/2	4,133.96	1/2	3,999.34	1/2	3,863.39	1/2	3,726.95	1/2	3,562.90	1/2	3,206.21	1/2	2,848.69	1/2	2,490.95	1/2	2,133.00
3/4	3/4	3/4	4,131.29	3/4	3,996.51	3/4	3,860.55	3/4	3,724.10	3/4	3,555.47	3/4	3,198.76	3/4	2,841.24	3/4	2,483.49	3/4	2,125.54
4		4	4,128.48	4	3,993.69	4	3,857.70	4	3,721.26	4	3,548.04	4	3,191.31	4	2,833.79	4	2,476.03	4	2,118.08
1/4	1/4	1/4	4,125.68	1/4	3,990.86	1/4	3,854.86	1/4	3,718.42	1/4	3,540.62	1/4	3,183.87	1/4	2,826.34	1/4	2,468.57	1/4	2,110.62
1/2	1/2	1/2	4,122.88	1/2	3,988.03	1/2	3,852.02	1/2	3,715.57	1/2	3,533.19	1/2	3,176.42	1/2	2,818.89	1/2	2,461.12	1/2	2,103.17
3/4	3/4	3/4	4,120.07	3/4	3,985.20	3/4	3,849.18	3/4	3,712.73	3/4	3,525.76	3/4	3,168.97	3/4	2,811.44	3/4	2,453.66	3/4	2,095.71
5		5	4,117.27	5	3,982.37	5	3,846.33	5	3,709.89	5	3,518.34	5	3,161.52	5	2,803.99	5	2,446.20	5	2,088.25
1/4	1/4	1/4	4,114.47	1/4	3,979.55	1/4	3,843.49	1/4	3,707.05	1/4	3,510.91	1/4	3,154.08	1/4	2,796.54	1/4	2,438.75	1/4	2,080.80
1/2	1/2	1/2	4,111.66	1/2	3,976.72	1/2	3,840.65	1/2	3,704.20	1/2	3,503.48	1/2	3,146.63	1/2	2,789.09	1/2	2,431.29	1/2	2,073.34
3/4	3/4	3/4	4,108.86	3/4	3,973.89	3/4	3,837.81	3/4	3,701.36	3/4	3,496.06	3/4	3,139.18	3/4	2,781.63	3/4	2,423.83	3/4	2,065.88
6		6	4,106.06	6	3,971.06	6	3,834.96	6	3,698.52	6	3,488.63	6	3,131.73	6	2,774.18	6	2,416.37	6	2,058.42
1/4	1/4	1/4	4,103.25	1/4	3,968.23	1/4	3,832.12	1/4	3,695.68	1/4	3,481.20	1/4	3,124.29	1/4	2,766.73	1/4	2,408.92	1/4	2,050.97
1/2	1/2	1/2	4,100.45	1/2	3,965.40	1/2	3,829.28	1/2	3,692.83	1/2	3,473.78	1/2	3,116.84	1/2	2,759.28	1/2	2,401.46	1/2	2,043.51
3/4	3/4	3/4	4,097.65	3/4	3,962.58	3/4	3,826.44	3/4	3,689.99	3/4	3,466.35	3/4	3,109.39	3/4	2,751.83	3/4	2,394.00	3/4	2,036.05
7		7	4,094.84	7	3,959.75	7	3,823.59	7	3,687.15	7	3,458.92	7	3,101.94	7	2,744.38	7	2,386.54	7	2,028.59
1/4	1/4	1/4	4,092.04	1/4	3,956.92	1/4	3,820.75	1/4	3,684.31	1/4	3,451.50	1/4	3,094.50	1/4	2,736.93	1/4	2,379.09	1/4	2,021.14
1/2	1/2	1/2	4,089.24	1/2	3,954.09	1/2	3,817.91	1/2	3,681.46	1/2	3,444.07	1/2	3,087.05	1/2	2,729.48	1/2	2,371.63	1/2	2,013.68
3/4	3/4	3/4	4,086.44	3/4	3,951.26	3/4	3,815.07	3/4	3,678.62	3/4	3,436.64	3/4	3,079.60	3/4	2,722.03	3/4	2,364.17	3/4	2,006.22
8		8	4,083.64	8	3,948.44	8	3,812.22	8	3,675.78	8	3,429.22	8	3,072.16	8	2,714.58	8	2,356.72	8	1,998.76
1/4	1/4	1/4	4,080.84	1/4	3,945.61	1/4	3,809.38	1/4	3,672.94	1/4	3,421.79	1/4	3,064.71	1/4	2,707.13	1/4	2,349.26	1/4	1,991.31
1/2	1/2	1/2	4,078.04	1/2	3,942.78	1/2	3,806.54	1/2	3,670.09	1/2	3,414.36	1/2	3,057.26	1/2	2,699.68	1/2	2,341.80	1/2	1,983.85
3/4	3/4	3/4	4,075.24	3/4	3,939.95	3/4	3,803.70	3/4	3,667.25	3/4	3,406.94	3/4	3,049.81	3/4	2,692.23	3/4	2,334.34	3/4	1,976.39
9		9	4,072.44	9	3,937.12	9	3,800.85	9	3,664.41	9	3,399.51	9	3,042.37	9	2,684.78	9	2,326.89	9	1,968.94
1/4	1/4	1/4	4,069.63	1/4	3,934.30	1/4	3,798.01	1/4	3,661.57	1/4	3,392.08	1/4	3,034.92	1/4	2,677.33	1/4	2,319.43	1/4	1,961.48
1/2	1/2	1/2	4,066.83	1/2	3,931.47	1/2	3,795.17	1/2	3,658.72	1/2	3,384.66	1/2	3,027.47	1/2	2,669.88	1/2	2,311.97	1/2	1,954.02
3/4	3/4	3/4	4,064.03	3/4	3,928.64	3/4	3,792.32	3/4	3,655.88	3/4	3,377.23	3/4	3,020.02	3/4	2,662.43	3/4	2,304.51	3/4	1,946.56
10		10	4,061.23	10	3,925.81	10	3,789.48	10	3,653.04	10	3,369.80	10	3,012.58	10	2,654.98	10	2,297.06	10	1,939.11
1/4	1/4	1/4	4,058.43	1/4	3,922.98	1/4	3,786.64	1/4	3,650.19	1/4	3,362.38	1/4	3,005.13	1/4	2,647.53	1/4	2,289.60	1/4	1,931.65
1/2	1/2	1/2	4,055.63	1/2	3,920.16	1/2	3,783.80	1/2	3,647.35	1/2	3,354.95	1/2	2,997.68	1/2	2,640.08	1/2	2,282.14	1/2	1,924.19
3/4	3/4	3/4	4,052.83	3/4	3,917.33	3/4	3,780.95	3/4	3,644.51	3/4	3,347.52	3/4	2,990.23	3/4	2,632.63	3/4	2,274.68	3/4	1,916.73
11		11	4,050.03	11	3,914.50	11	3,778.11	11	3,641.67	11	3,340.10	11	2,982.78	11	2,625.18	11	2,267.23	11	1,909.28
1/4	1/4	1/4	4,047.23	1/4	3,911.67	1/4	3,775.27	1/4	3,638.82	1/4	3,332.67	1/4	2,975.34	1/4	2,617.72	1/4	2,259.77	1/4	1,901.82
1/2	1/2	1/2	4,044.43	1/2	3,908.84	1/2	3,772.43	1/2	3,635.98	1/2	3,325.24	1/2	2,967.89	1/2	2,610.26	1/2	2,252.31	1/2	1,894.36
3/4	3/4	3/4	4,041.63	3/4	3,906.01	3/4	3,769.58	3/4	3,633.14	3/4	3,317.82	3/4	2,960.44	3/4	2,602.81	3/4	2,244.86	3/4	1,886.91

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 OF MMC VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 56'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28716"

3 STBD ULLAGE TABLE MMC VALVE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30032"

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,879.45	0	1,521.50	0	1,163.55	0	806.15	0	448.21	0	90.27	0		0		0		0	
1/4	1,871.99	1/4	1,514.04	1/4	1,156.09	1/4	798.69	1/4	440.75	1/4	82.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,864.53	1/2	1,506.58	1/2	1,148.63	1/2	791.23	1/2	433.29	1/2	75.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,857.08	3/4	1,499.13	3/4	1,141.18	3/4	783.78	3/4	425.84	3/4	67.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,849.62	1	1,491.67	1	1,133.72	1	776.32	1	418.38	1	61.14	1		1		1		1	
1/4	1,842.16	1/4	1,484.21	1/4	1,126.27	1/4	768.86	1/4	410.92	1/4	54.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,834.70	1/2	1,476.75	1/2	1,118.82	1/2	761.41	1/2	403.47	1/2	47.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,827.25	3/4	1,469.30	3/4	1,111.37	3/4	753.95	3/4	396.01	3/4	40.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,819.79	2	1,461.84	2	1,103.92	2	746.49	2	388.55	2	35.74	2		2		2		2	
1/4	1,812.33	1/4	1,454.38	1/4	1,096.47	1/4	739.03	1/4	381.09	1/4	30.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,804.88	1/2	1,446.92	1/2	1,089.02	1/2	731.58	1/2	373.64	1/2	25.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,797.42	3/4	1,439.47	3/4	1,081.57	3/4	724.12	3/4	366.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,789.96	3	1,432.01	3	1,074.13	3	716.66	3	358.72	1		3		3		3		3	
1/4	1,782.50	1/4	1,424.55	1/4	1,066.68	1/4	709.21	1/4	351.27	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.05	1/2	1,417.10	1/2	1,059.24	1/2	701.75	1/2	343.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.59	3/4	1,409.64	3/4	1,051.80	3/4	694.29	3/4	336.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,760.13	4	1,402.18	4	1,044.35	4	686.84	4	328.89	4	4	4		4		4		4	
1/4	1,752.67	1/4	1,394.72	1/4	1,036.91	1/4	679.38	1/4	321.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.22	1/2	1,387.27	1/2	1,029.47	1/2	671.92	1/2	313.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.76	3/4	1,379.81	3/4	1,022.03	3/4	664.46	3/4	306.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,730.30	5	1,372.35	5	1,014.59	5	657.01	5	299.07	5	5	5		5		5		5	
1/4	1,722.84	1/4	1,364.89	1/4	1,007.14	1/4	649.55	1/4	291.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.39	1/2	1,357.44	1/2	999.70	1/2	642.09	1/2	284.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,707.93	3/4	1,349.98	3/4	992.26	3/4	634.64	3/4	276.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,700.47	6	1,342.52	6	984.82	6	627.18	6	269.24	6	6	6		6		6		6	
1/4	1,693.02	1/4	1,335.07	1/4	977.38	1/4	619.72	1/4	261.78	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,685.56	1/2	1,327.61	1/2	969.93	1/2	612.26	1/2	254.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,678.10	3/4	1,320.15	3/4	962.49	3/4	604.81	3/4	246.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,670.64	7	1,312.69	7	955.05	7	597.35	7	239.41	7	7	7		7		7		7	
1/4	1,663.19	1/4	1,305.24	1/4	947.61	1/4	589.89	1/4	231.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,655.73	1/2	1,297.78	1/2	940.17	1/2	582.44	1/2	224.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.27	3/4	1,290.32	3/4	932.72	3/4	574.98	3/4	217.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,640.81	8	1,282.86	8	925.28	8	567.52	8	209.58	8	8	8		8		8		8	
1/4	1,633.36	1/4	1,275.41	1/4	917.84	1/4	560.06	1/4	202.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,625.90	1/2	1,267.95	1/2	910.40	1/2	552.61	1/2	194.67	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,618.44	3/4	1,260.49	3/4	902.96	3/4	545.15	3/4	187.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,610.99	9	1,253.03	9	895.51	9	537.69	9	179.75	9	9	9		9		9		9	
1/4	1,603.53	1/4	1,245.58	1/4	888.07	1/4	530.24	1/4	172.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,596.07	1/2	1,238.12	1/2	880.63	1/2	522.78	1/2	164.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,588.61	3/4	1,230.66	3/4	873.19	3/4	515.32	3/4	157.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,581.16	10	1,223.21	10	865.75	10	507.86	10	149.92	10	10	10		10		10		10	
1/4	1,573.70	1/4	1,215.75	1/4	858.30	1/4	500.41	1/4	142.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,566.24	1/2	1,208.29	1/2	850.86	1/2	492.95	1/2	135.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,558.78	3/4	1,200.83	3/4	843.42	3/4	485.49	3/4	127.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,551.33	11	1,193.38	11	835.97	11	478.04	11	120.10	11	11	11		11		11		11	
1/4	1,543.87	1/4	1,185.92	1/4	828.51	1/4	470.58	1/4	112.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,536.41	1/2	1,178.46	1/2	821.06	1/2	463.12	1/2	105.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,528.95	3/4	1,171.00	3/4	813.61	3/4	455.66	3/4	97.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2012 CL - SW
CALCULATED: 07/12/2012 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

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



BARGE "KIRBY 28716"

PORT FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMS 30032"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	26	1/4	1,256	1/4	2,487	1/4	3,717	1/4	4,948	1/4	6,178	1/4		1/4		1/4		1/4	
1/2	51	1/2	1,282	1/2	2,512	1/2	3,743	1/2	4,973	1/2	6,204	1/2		1/2		1/2		1/2	
3/4	77	3/4	1,307	3/4	2,538	3/4	3,769	3/4	4,999	3/4	6,230	3/4		3/4		3/4		3/4	
1	103	1	1,333	1	2,564	1	3,794	1	5,025	1	6,255	1		1		1		1	
1/4	128	1/4	1,359	1/4	2,589	1/4	3,820	1/4	5,050	1/4	6,281	1/4		1/4		1/4		1/4	
1/2	154	1/2	1,384	1/2	2,615	1/2	3,845	1/2	5,076	1/2	6,307	1/2		1/2		1/2		1/2	
3/4	179	3/4	1,410	3/4	2,641	3/4	3,871	3/4	5,102	3/4	6,332	3/4		3/4		3/4		3/4	
2	205	2	1,436	2	2,666	2	3,897	2	5,127	2	6,358	2		2		2		2	
1/4	231	1/4	1,461	1/4	2,692	1/4	3,922	1/4	5,153	1/4	6,383	1/4		1/4		1/4		1/4	
1/2	256	1/2	1,487	1/2	2,717	1/2	3,948	1/2	5,179	1/2	6,409	1/2		1/2		1/2		1/2	
3/4	282	3/4	1,513	3/4	2,743	3/4	3,974	3/4	5,204	3/4	6,435	3/4		3/4		3/4		3/4	
3	308	3	1,538	3	2,769	3	3,999	3	5,230	3	6,460	3		3		3		3	
1/4	333	1/4	1,564	1/4	2,794	1/4	4,025	1/4	5,255	1/4	6,486	1/4		1/4		1/4		1/4	
1/2	359	1/2	1,589	1/2	2,820	1/2	4,051	1/2	5,281	1/2	6,512	1/2		1/2		1/2		1/2	
3/4	385	3/4	1,615	3/4	2,846	3/4	4,076	3/4	5,307	3/4	6,537	3/4		3/4		3/4		3/4	
4	410	4	1,641	4	2,871	4	4,102	4	5,332	4	6,563	4		4		4		4	
1/4	436	1/4	1,666	1/4	2,897	1/4	4,127	1/4	5,358	1/4	6,589	1/4		1/4		1/4		1/4	
1/2	461	1/2	1,692	1/2	2,923	1/2	4,153	1/2	5,384	1/2	6,614	1/2		1/2		1/2		1/2	
3/4	487	3/4	1,718	3/4	2,948	3/4	4,179	3/4	5,409	3/4		3/4		3/4		3/4		3/4	
5	513	5	1,743	5	2,974	5	4,204	5	5,435	5		5		5		5		5	
1/4	538	1/4	1,769	1/4	2,999	1/4	4,230	1/4	5,461	1/4		1/4		1/4		1/4		1/4	
1/2	564	1/2	1,795	1/2	3,025	1/2	4,256	1/2	5,486	1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,820	3/4	3,051	3/4	4,281	3/4	5,512	3/4		3/4		3/4		3/4		3/4	
6	615	6	1,846	6	3,076	6	4,307	6	5,537	6		6		6		6		6	
1/4	641	1/4	1,871	1/4	3,102	1/4	4,333	1/4	5,563	1/4		1/4		1/4		1/4		1/4	
1/2	667	1/2	1,897	1/2	3,128	1/2	4,358	1/2	5,589	1/2		1/2		1/2		1/2		1/2	
3/4	692	3/4	1,923	3/4	3,153	3/4	4,384	3/4	5,614	3/4		3/4		3/4		3/4		3/4	
7	718	7	1,948	7	3,179	7	4,409	7	5,640	7		7		7		7		7	
1/4	743	1/4	1,974	1/4	3,205	1/4	4,435	1/4	5,666	1/4		1/4		1/4		1/4		1/4	
1/2	769	1/2	2,000	1/2	3,230	1/2	4,461	1/2	5,691	1/2		1/2		1/2		1/2		1/2	
3/4	795	3/4	2,025	3/4	3,256	3/4	4,486	3/4	5,717	3/4		3/4		3/4		3/4		3/4	
8	820	8	2,051	8	3,281	8	4,512	8	5,743	8		8		8		8		8	
1/4	846	1/4	2,077	1/4	3,307	1/4	4,538	1/4	5,768	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	2,102	1/2	3,333	1/2	4,563	1/2	5,794	1/2		1/2		1/2		1/2		1/2	
3/4	897	3/4	2,128	3/4	3,358	3/4	4,589	3/4	5,819	3/4		3/4		3/4		3/4		3/4	
9	923	9	2,153	9	3,384	9	4,615	9	5,845	9		9		9		9		9	
1/4	949	1/4	2,179	1/4	3,410	1/4	4,640	1/4	5,871	1/4		1/4		1/4		1/4		1/4	
1/2	974	1/2	2,205	1/2	3,435	1/2	4,666	1/2	5,896	1/2		1/2		1/2		1/2		1/2	
3/4	1,000	3/4	2,230	3/4	3,461	3/4	4,691	3/4	5,922	3/4		3/4		3/4		3/4		3/4	
10	1,025	10	2,256	10	3,487	10	4,717	10	5,948	10		10		10		10		10	
1/4	1,051	1/4	2,282	1/4	3,512	1/4	4,743	1/4	5,973	1/4		1/4		1/4		1/4		1/4	
1/2	1,077	1/2	2,307	1/2	3,538	1/2	4,768	1/2	5,999	1/2		1/2		1/2		1/2		1/2	
3/4	1,102	3/4	2,333	3/4	3,563	3/4	4,794	3/4	6,025	3/4		3/4		3/4		3/4		3/4	
11	1,128	11	2,359	11	3,589	11	4,820	11	6,050	11		11		11		11		11	
1/4	1,154	1/4	2,384	1/4	3,615	1/4	4,845	1/4	6,076	1/4		1/4		1/4		1/4		1/4	
1/2	1,179	1/2	2,410	1/2	3,640	1/2	4,871	1/2	6,101	1/2		1/2		1/2		1/2		1/2	
3/4	1,205	3/4	2,435	3/4	3,666	3/4	4,897	3/4	6,127	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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

STRAPPED: 08/22/2022 PMA
CALCULATED: 08/22/2022 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28716"

STBD FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMS 30032"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	0	0	1,231	0	2,461	0	3,692	0	4,922	0	6,153	0		0		0		0	
1/4	26	1/4	1,256	1/4	2,487	1/4	3,717	1/4	4,948	1/4	6,178	1/4		1/4		1/4		1/4	
1/2	51	1/2	1,282	1/2	2,512	1/2	3,743	1/2	4,973	1/2	6,204	1/2		1/2		1/2		1/2	
3/4	77	3/4	1,307	3/4	2,538	3/4	3,769	3/4	4,999	3/4	6,230	3/4		3/4		3/4		3/4	
1	103	1	1,333	1	2,564	1	3,794	1	5,025	1	6,255	1		1		1		1	
1/4	128	1/4	1,359	1/4	2,589	1/4	3,820	1/4	5,050	1/4	6,281	1/4		1/4		1/4		1/4	
1/2	154	1/2	1,384	1/2	2,615	1/2	3,845	1/2	5,076	1/2	6,307	1/2		1/2		1/2		1/2	
3/4	179	3/4	1,410	3/4	2,641	3/4	3,871	3/4	5,102	3/4	6,332	3/4		3/4		3/4		3/4	
2	205	2	1,436	2	2,666	2	3,897	2	5,127	2	6,358	2		2		2		2	
1/4	231	1/4	1,461	1/4	2,692	1/4	3,922	1/4	5,153	1/4	6,383	1/4		1/4		1/4		1/4	
1/2	256	1/2	1,487	1/2	2,717	1/2	3,948	1/2	5,179	1/2	6,409	1/2		1/2		1/2		1/2	
3/4	282	3/4	1,513	3/4	2,743	3/4	3,974	3/4	5,204	3/4	6,435	3/4		3/4		3/4		3/4	
3	308	3	1,538	3	2,769	3	3,999	3	5,230	3	6,460	3		3		3		3	
1/4	333	1/4	1,564	1/4	2,794	1/4	4,025	1/4	5,255	1/4	6,486	1/4		1/4		1/4		1/4	
1/2	359	1/2	1,589	1/2	2,820	1/2	4,051	1/2	5,281	1/2	6,512	1/2		1/2		1/2		1/2	
3/4	385	3/4	1,615	3/4	2,846	3/4	4,076	3/4	5,307	3/4	6,537	3/4		3/4		3/4		3/4	
4	410	4	1,641	4	2,871	4	4,102	4	5,332	4	6,563	4		4		4		4	
1/4	436	1/4	1,666	1/4	2,897	1/4	4,127	1/4	5,358	1/4	6,589	1/4		1/4		1/4		1/4	
1/2	461	1/2	1,692	1/2	2,923	1/2	4,153	1/2	5,384	1/2	6,614	1/2		1/2		1/2		1/2	
3/4	487	3/4	1,718	3/4	2,948	3/4	4,179	3/4	5,409	3/4		3/4		3/4		3/4		3/4	
5	513	5	1,743	5	2,974	5	4,204	5	5,435	5		5		5		5		5	
1/4	538	1/4	1,769	1/4	2,999	1/4	4,230	1/4	5,461	1/4		1/4		1/4		1/4		1/4	
1/2	564	1/2	1,795	1/2	3,025	1/2	4,256	1/2	5,486	1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,820	3/4	3,051	3/4	4,281	3/4	5,512	3/4		3/4		3/4		3/4		3/4	
6	615	6	1,846	6	3,076	6	4,307	6	5,537	6		6		6		6		6	
1/4	641	1/4	1,871	1/4	3,102	1/4	4,333	1/4	5,563	1/4		1/4		1/4		1/4		1/4	
1/2	667	1/2	1,897	1/2	3,128	1/2	4,358	1/2	5,589	1/2		1/2		1/2		1/2		1/2	
3/4	692	3/4	1,923	3/4	3,153	3/4	4,384	3/4	5,614	3/4		3/4		3/4		3/4		3/4	
7	718	7	1,948	7	3,179	7	4,409	7	5,640	7		7		7		7		7	
1/4	743	1/4	1,974	1/4	3,205	1/4	4,435	1/4	5,666	1/4		1/4		1/4		1/4		1/4	
1/2	769	1/2	2,000	1/2	3,230	1/2	4,461	1/2	5,691	1/2		1/2		1/2		1/2		1/2	
3/4	795	3/4	2,025	3/4	3,256	3/4	4,486	3/4	5,717	3/4		3/4		3/4		3/4		3/4	
8	820	8	2,051	8	3,281	8	4,512	8	5,743	8		8		8		8		8	
1/4	846	1/4	2,077	1/4	3,307	1/4	4,538	1/4	5,768	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	2,102	1/2	3,333	1/2	4,563	1/2	5,794	1/2		1/2		1/2		1/2		1/2	
3/4	897	3/4	2,128	3/4	3,358	3/4	4,589	3/4	5,819	3/4		3/4		3/4		3/4		3/4	
9	923	9	2,153	9	3,384	9	4,615	9	5,845	9		9		9		9		9	
1/4	949	1/4	2,179	1/4	3,410	1/4	4,640	1/4	5,871	1/4		1/4		1/4		1/4		1/4	
1/2	974	1/2	2,205	1/2	3,435	1/2	4,666	1/2	5,896	1/2		1/2		1/2		1/2		1/2	
3/4	1,000	3/4	2,230	3/4	3,461	3/4	4,691	3/4	5,922	3/4		3/4		3/4		3/4		3/4	
10	1,025	10	2,256	10	3,487	10	4,717	10	5,948	10		10		10		10		10	
1/4	1,051	1/4	2,282	1/4	3,512	1/4	4,743	1/4	5,973	1/4		1/4		1/4		1/4		1/4	
1/2	1,077	1/2	2,307	1/2	3,538	1/2	4,768	1/2	5,999	1/2		1/2		1/2		1/2		1/2	
3/4	1,102	3/4	2,333	3/4	3,563	3/4	4,794	3/4	6,025	3/4		3/4		3/4		3/4		3/4	
11	1,128	11	2,359	11	3,589	11	4,820	11	6,050	11		11		11		11		11	
1/4	1,154	1/4	2,384	1/4	3,615	1/4	4,845	1/4	6,076	1/4		1/4		1/4		1/4		1/4	
1/2	1,179	1/2	2,410	1/2	3,640	1/2	4,871	1/2	6,101	1/2		1/2		1/2		1/2		1/2	
3/4	1,205	3/4	2,435	3/4	3,666	3/4	4,897	3/4	6,127	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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

STRAPPED: 08/22/2022 PMA
CALCULATED: 08/22/2022 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28716"

SMALL FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMS 30032"

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	

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

STRAPPED: 08/22/2022 PMA
CALCULATED: 08/22/2022 CL
NAME CHANGE: 08/22/2022 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2022

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>