



# BARGE "KIRBY 27018"

ULLAGE TRIM TABLE  
FORMERLY "CTCO 357"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 237'-06"

September 23, 2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 27018"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 1/2"

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		
							4,144.42		3,882.15		3,593.40		3,283.29		2,955.01		2,623.85		2,292.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,137.96	1/4	3,876.36	1/4	3,587.14	1/4	3,276.61	1/4	2,948.11	1/4	2,616.95	1/4	2,285.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,131.50	1/2	3,870.58	1/2	3,580.88	1/2	3,269.93	1/2	2,941.21	1/2	2,610.05	1/2	2,278.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,126.49	3/4	3,864.75	3/4	3,574.59	3/4	3,263.23	3/4	2,934.31	3/4	2,603.15	3/4	2,271.99		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,121.48</b>	<b>1</b>	<b>3,858.93</b>	<b>1</b>	<b>3,568.30</b>	<b>1</b>	<b>3,256.52</b>	<b>1</b>	<b>2,927.41</b>	<b>1</b>	<b>2,596.25</b>	<b>1</b>	<b>2,265.09</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,116.47	1/4	3,853.10	1/4	3,562.01	1/4	3,249.81	1/4	2,920.51	1/4	2,589.35	1/4	2,258.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,111.46	1/2	3,847.28	1/2	3,555.72	1/2	3,243.10	1/2	2,913.62	1/2	2,582.45	1/2	2,251.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,106.42	3/4	3,841.42	3/4	3,549.40	3/4	3,236.35	3/4	2,906.72	3/4	2,575.55	3/4	2,244.39		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,101.38</b>	<b>2</b>	<b>3,835.56</b>	<b>2</b>	<b>3,543.08</b>	<b>2</b>	<b>3,229.60</b>	<b>2</b>	<b>2,899.82</b>	<b>2</b>	<b>2,568.66</b>	<b>2</b>	<b>2,237.49</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,096.34	1/4	3,829.71	1/4	3,536.76	1/4	3,222.84	1/4	2,892.92	1/4	2,561.76	1/4	2,230.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,091.30	1/2	3,823.85	1/2	3,530.44	1/2	3,216.09	1/2	2,886.02	1/2	2,554.86	1/2	2,223.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,086.22	3/4	3,817.95	3/4	3,524.08	3/4	3,209.31	3/4	2,879.12	3/4	2,547.96	3/4	2,216.80		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,081.14</b>	<b>3</b>	<b>3,812.06</b>	<b>3</b>	<b>3,517.72</b>	<b>3</b>	<b>3,202.53</b>	<b>3</b>	<b>2,872.22</b>	<b>3</b>	<b>2,541.06</b>	<b>3</b>	<b>2,209.90</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,076.05	1/4	3,806.16	1/4	3,511.36	1/4	3,195.75	1/4	2,865.32	1/4	2,534.16	1/4	2,203.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,070.97	1/2	3,800.26	1/2	3,505.00	1/2	3,188.97	1/2	2,858.42	1/2	2,527.26	1/2	2,196.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,065.86	3/4	3,794.34	3/4	3,498.62	3/4	3,182.16	3/4	2,851.52	3/4	2,520.36	3/4	2,189.20		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,060.75</b>	<b>4</b>	<b>3,788.41</b>	<b>4</b>	<b>3,492.24</b>	<b>4</b>	<b>3,175.35</b>	<b>4</b>	<b>2,844.62</b>	<b>4</b>	<b>2,513.46</b>	<b>4</b>	<b>2,182.30</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,055.63	1/4	3,782.48	1/4	3,485.86	1/4	3,168.54	1/4	2,837.72	1/4	2,506.56	1/4	2,175.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,050.52	1/2	3,776.55	1/2	3,479.47	1/2	3,161.73	1/2	2,830.82	1/2	2,499.66	1/2	2,168.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,045.38	3/4	3,770.57	3/4	3,473.05	3/4	3,154.87	3/4	2,823.93	3/4	2,492.76	3/4	2,161.60		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,040.24</b>	<b>5</b>	<b>3,764.59</b>	<b>5</b>	<b>3,466.63</b>	<b>5</b>	<b>3,148.02</b>	<b>5</b>	<b>2,817.03</b>	<b>5</b>	<b>2,485.86</b>	<b>5</b>	<b>2,154.70</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,035.09	1/4	3,758.61	1/4	3,460.21	1/4	3,141.17	1/4	2,810.13	1/4	2,478.97	1/4	2,147.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,029.95	1/2	3,752.63	1/2	3,453.78	1/2	3,134.32	1/2	2,803.23	1/2	2,472.07	1/2	2,140.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,024.36	3/4	3,746.62	3/4	3,447.33	3/4	3,127.44	3/4	2,796.33	3/4	2,465.17	3/4	2,134.01		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,018.77</b>	<b>6</b>	<b>3,740.61</b>	<b>6</b>	<b>3,440.88</b>	<b>6</b>	<b>3,120.56</b>	<b>6</b>	<b>2,789.43</b>	<b>6</b>	<b>2,458.27</b>	<b>6</b>	<b>2,127.11</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,013.18	1/4	3,734.61	1/4	3,434.42	1/4	3,113.67	1/4	2,782.53	1/4	2,451.37	1/4	2,120.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.94	1/2	4,007.60	1/2	3,728.60	1/2	3,427.97	1/2	3,106.79	1/2	2,775.63	1/2	2,444.47	1/2	2,113.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.45	3/4	4,001.98	3/4	3,722.56	3/4	3,421.47	3/4	3,099.89	3/4	2,768.73	3/4	2,437.57	3/4	2,106.41
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,273.95</b>	<b>7</b>	<b>3,996.35</b>	<b>7</b>	<b>3,716.52</b>	<b>7</b>	<b>3,414.98</b>	<b>7</b>	<b>3,092.99</b>	<b>7</b>	<b>2,761.83</b>	<b>7</b>	<b>2,430.67</b>	<b>7</b>	<b>2,099.51</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,267.46	1/4	3,990.73	1/4	3,710.48	1/4	3,408.48	1/4	3,086.10	1/4	2,754.93	1/4	2,423.77	1/4	2,092.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,260.97	1/2	3,985.11	1/2	3,704.44	1/2	3,401.98	1/2	3,079.20	1/2	2,748.03	1/2	2,416.87	1/2	2,085.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,254.47	3/4	3,979.45	3/4	3,698.36	3/4	3,395.46	3/4	3,072.30	3/4	2,741.14	3/4	2,409.97	3/4	2,078.81
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,247.98</b>	<b>8</b>	<b>3,973.79</b>	<b>8</b>	<b>3,692.28</b>	<b>8</b>	<b>3,388.93</b>	<b>8</b>	<b>3,065.40</b>	<b>8</b>	<b>2,734.24</b>	<b>8</b>	<b>2,403.07</b>	<b>8</b>	<b>2,071.91</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,241.48	1/4	3,968.13	1/4	3,686.20	1/4	3,382.41	1/4	3,058.50	1/4	2,727.34	1/4	2,396.18	1/4	2,065.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,234.99	1/2	3,962.47	1/2	3,680.12	1/2	3,375.88	1/2	3,051.60	1/2	2,720.44	1/2	2,389.28	1/2	2,058.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,228.50	3/4	3,956.78	3/4	3,673.97	3/4	3,369.32	3/4	3,044.70	3/4	2,713.54	3/4	2,382.38	3/4	2,051.22
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,222.00</b>	<b>9</b>	<b>3,951.09</b>	<b>9</b>	<b>3,667.82</b>	<b>9</b>	<b>3,362.75</b>	<b>9</b>	<b>3,037.80</b>	<b>9</b>	<b>2,706.64</b>	<b>9</b>	<b>2,375.48</b>	<b>9</b>	<b>2,044.32</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,215.51	1/4	3,945.40	1/4	3,661.68	1/4	3,356.19	1/4	3,030.90	1/4	2,699.74	1/4	2,368.58	1/4	2,037.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,209.02	1/2	3,939.71	1/2	3,655.53	1/2	3,349.62	1/2	3,024.00	1/2	2,692.84	1/2	2,361.68	1/2	2,030.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,202.56	3/4	3,933.97	3/4	3,649.35	3/4	3,343.01	3/4	3,017.10	3/4	2,685.94	3/4	2,354.78	3/4	2,023.62
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,196.10</b>	<b>10</b>	<b>3,928.24</b>	<b>10</b>	<b>3,643.16</b>	<b>10</b>	<b>3,336.41</b>	<b>10</b>	<b>3,010.20</b>	<b>10</b>	<b>2,679.04</b>	<b>10</b>	<b>2,347.88</b>	<b>10</b>	<b>2,016.72</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,189.64	1/4	3,922.50	1/4	3,636.97	1/4	3,329.80	1/4	3,003.30	1/4	2,672.14	1/4	2,340.98	1/4	2,009.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,183.18	1/2	3,916.77	1/2	3,630.79	1/2	3,323.20	1/2	2,996.41	1/2	2,665.24	1/2	2,334.08	1/2	2,002.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,176.72	3/4	3,911.00	3/4	3,624.57	3/4	3,316.56	3/4	2,989.51	3/4	2,658.34	3/4	2,327.18	3/4	1,996.02
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,170.26</b>	<b>11</b>	<b>3,905.24</b>	<b>11</b>	<b>3,618.35</b>	<b>11</b>	<b>3,309.92</b>	<b>11</b>	<b>2,982.61</b>	<b>11</b>	<b>2,651.45</b>	<b>11</b>	<b>2,320.28</b>	<b>11</b>	<b>1,989.12</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,163.80	1/4	3,899.48	1/4	3,612.14	1/4	3,303.28	1/4	2,975.71	1/4	2,644.55	1/4	2,313.38	1/4	1,982.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,157.34	1/2	3,893.72	1/2	3,605.92	1/2	3,296.65	1/2	2,968.81	1/2	2,637.65	1/2	2,306.49	1/2	1,975.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,150.88	3/4	3,887.93	3/4	3,599.66	3/4	3,289.97	3/4	2,961.91	3/4	2,630.75	3/4	2,299.59	3/4	1,968.42

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "KIRBY 27018"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 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	1,961.53	0	1,630.36	0	1,299.20	0	968.56	0	653.76	0	363.65	0	95.19	0		0			
1/4	1,954.63	1/4	1,623.46	1/4	1,292.30	1/4	961.76	1/4	647.44	1/4	357.83	1/4	89.84	1/4	1/4				1/4
1/2	1,947.73	1/2	1,616.57	1/2	1,285.40	1/2	954.96	1/2	641.13	1/2	352.02	1/2	84.48	1/2	1/2	1/2			1/2
3/4	1,940.83	3/4	1,609.67	3/4	1,278.50	3/4	948.21	3/4	634.85	3/4	346.25	3/4	79.17	3/4	3/4	3/4			3/4
1	1,933.93	1	1,602.77	1	1,271.61	1	941.45	1	628.57	1	340.48	1	73.85	1	1	1			1
1/4	1,927.03	1/4	1,595.87	1/4	1,264.71	1/4	934.69	1/4	622.29	1/4	334.70	1/4	68.54	1/4	1/4	1/4			1/4
1/2	1,920.13	1/2	1,588.97	1/2	1,257.81	1/2	927.93	1/2	616.02	1/2	328.93	1/2	63.22	1/2	1/2	1/2			1/2
3/4	1,913.23	3/4	1,582.07	3/4	1,250.91	3/4	921.21	3/4	609.81	3/4	323.18	3/4	57.95	3/4	3/4	3/4			3/4
2	1,906.33	2	1,575.17	2	1,244.01	2	914.49	2	603.61	2	317.42	2	52.67	2	2	2			2
1/4	1,899.43	1/4	1,568.27	1/4	1,237.11	1/4	907.77	1/4	597.40	1/4	311.66	1/4	47.40	1/4	1/4	1/4			1/4
1/2	1,892.53	1/2	1,561.37	1/2	1,230.21	1/2	901.05	1/2	591.20	1/2	305.91	1/2	42.12	1/2	1/2	1/2			1/2
3/4	1,885.63	3/4	1,554.47	3/4	1,223.31	3/4	894.38	3/4	585.04	3/4	300.19	3/4	37.75	3/4	3/4	3/4			3/4
3	1,878.74	3	1,547.57	3	1,216.41	3	887.70	3	578.88	3	294.48	3	33.38	3	3	3			3
1/4	1,871.84	1/4	1,540.67	1/4	1,209.51	1/4	881.02	1/4	572.72	1/4	288.76	1/4	29.00	1/4	1/4	1/4			1/4
1/2	1,864.94	1/2	1,533.78	1/2	1,202.61	1/2	874.34	1/2	566.57	1/2	283.04	1/2	24.63	1/2	1/2	1/2			1/2
3/4	1,858.04	3/4	1,526.88	3/4	1,195.71	3/4	867.70	3/4	560.45	3/4	277.37	3/4	22.02	3/4	3/4	3/4			3/4
4	1,851.14	4	1,519.98	4	1,188.82	4	861.06	4	554.33	4	271.69	4	19.42	4	4	4			4
1/4	1,844.24	1/4	1,513.08	1/4	1,181.92	1/4	854.42	1/4	548.21	1/4	266.02	1/4	16.81	1/4	1/4	1/4			1/4
1/2	1,837.34	1/2	1,506.18	1/2	1,175.02	1/2	847.79	1/2	542.09	1/2	260.34	1/2	14.20	1/2	1/2	1/2			1/2
3/4	1,830.44	3/4	1,499.28	3/4	1,168.12	3/4	841.19	3/4	536.02	3/4	254.70	3/4		3/4	3/4	3/4			3/4
5	1,823.54	5	1,492.38	5	1,161.22	5	834.59	5	529.94	5	249.07	5		5	5	5			5
1/4	1,816.64	1/4	1,485.48	1/4	1,154.32	1/4	827.99	1/4	523.86	1/4	243.43	1/4		1/4	1/4	1/4			1/4
1/2	1,809.74	1/2	1,478.58	1/2	1,147.42	1/2	821.39	1/2	517.78	1/2	237.80	1/2		1/2	1/2	1/2			1/2
3/4	1,802.84	3/4	1,471.68	3/4	1,140.52	3/4	814.83	3/4	511.75	3/4	232.20	3/4		3/4	3/4	3/4			3/4
6	1,795.94	6	1,464.78	6	1,133.62	6	808.28	6	505.71	6	226.60	6		6	6	6			6
1/4	1,789.05	1/4	1,457.88	1/4	1,126.72	1/4	801.72	1/4	499.67	1/4	221.01	1/4		1/4	1/4	1/4			1/4
1/2	1,782.15	1/2	1,450.98	1/2	1,119.82	1/2	795.16	1/2	493.63	1/2	215.41	1/2		1/2	1/2	1/2			1/2
3/4	1,775.25	3/4	1,444.09	3/4	1,112.92	3/4	788.64	3/4	487.64	3/4	209.86	3/4		3/4	3/4	3/4			3/4
7	1,768.35	7	1,437.19	7	1,106.02	7	782.12	7	481.64	7	204.30	7		7	7	7			7
1/4	1,761.45	1/4	1,430.29	1/4	1,099.13	1/4	775.60	1/4	475.64	1/4	198.75	1/4		1/4	1/4	1/4			1/4
1/2	1,754.55	1/2	1,423.39	1/2	1,092.23	1/2	769.09	1/2	469.65	1/2	193.19	1/2		1/2	1/2	1/2			1/2
3/4	1,747.65	3/4	1,416.49	3/4	1,085.33	3/4	762.61	3/4	463.69	3/4	187.68	3/4		3/4	3/4	3/4			3/4
8	1,740.75	8	1,409.59	8	1,078.43	8	756.13	8	457.74	8	182.16	8		8	8	8			8
1/4	1,733.85	1/4	1,402.69	1/4	1,071.53	1/4	749.65	1/4	451.78	1/4	176.64	1/4		1/4	1/4	1/4			1/4
1/2	1,726.95	1/2	1,395.79	1/2	1,064.63	1/2	743.17	1/2	445.82	1/2	171.13	1/2		1/2	1/2	1/2			1/2
3/4	1,720.05	3/4	1,388.89	3/4	1,057.73	3/4	736.73	3/4	439.91	3/4	165.65	3/4		3/4	3/4	3/4			3/4
9	1,713.15	9	1,381.99	9	1,050.83	9	730.30	9	433.99	9	160.18	9		9	9	9			9
1/4	1,706.26	1/4	1,375.09	1/4	1,043.93	1/4	723.86	1/4	428.07	1/4	154.70	1/4		1/4	1/4	1/4			1/4
1/2	1,699.36	1/2	1,368.19	1/2	1,037.03	1/2	717.42	1/2	422.15	1/2	149.23	1/2		1/2	1/2	1/2			1/2
3/4	1,692.46	3/4	1,361.30	3/4	1,030.15	3/4	711.02	3/4	416.28	3/4	143.79	3/4		3/4	3/4	3/4			3/4
10	1,685.56	10	1,354.40	10	1,023.27	10	704.63	10	410.40	10	138.36	10		10	10	10			10
1/4	1,678.66	1/4	1,347.50	1/4	1,016.40	1/4	698.23	1/4	404.52	1/4	132.92	1/4		1/4	1/4	1/4			1/4
1/2	1,671.76	1/2	1,340.60	1/2	1,009.52	1/2	691.83	1/2	398.65	1/2	127.49	1/2		1/2	1/2	1/2			1/2
3/4	1,664.86	3/4	1,333.70	3/4	1,002.68	3/4	685.47	3/4	392.80	3/4	122.09	3/4		3/4	3/4	3/4			3/4
11	1,657.96	11	1,326.80	11	995.84	11	679.11	11	386.96	11	116.70	11		11	11	11			11
1/4	1,651.06	1/4	1,319.90	1/4	989.00	1/4	672.76	1/4	381.12	1/4	111.30	1/4		1/4	1/4	1/4			1/4
1/2	1,644.16	1/2	1,313.00	1/2	982.16	1/2	666.40	1/2	375.27	1/2	105.90	1/2		1/2	1/2	1/2			1/2
3/4	1,637.26	3/4	1,306.10	3/4	975.36	3/4	660.08	3/4	369.46	3/4	100.55	3/4		3/4	3/4	3/4			3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/13/2014 PMA  
RECALCULATED: 09/26/2019 PMA  
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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



# BARGE "KIRBY 27018"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,145.11	0	3,882.91	0	3,594.21	0	3,284.14	0	2,955.86	0	2,624.72	0	2,293.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,138.65	1/4	3,877.12	1/4	3,587.95	1/4	3,277.46	1/4	2,948.96	1/4	2,617.82	1/4	2,286.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,132.19	1/2	3,871.34	1/2	3,581.69	1/2	3,270.78	1/2	2,942.06	1/2	2,610.92	1/2	2,279.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,127.18	3/4	3,865.52	3/4	3,575.40	3/4	3,264.08	3/4	2,935.16	3/4	2,604.02	3/4	2,272.88		
1		1		1		1	4,122.17	1	3,859.69	1	3,569.12	1	3,257.37	1	2,928.26	1	2,597.12	1	2,265.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,117.17	1/4	3,853.87	1/4	3,562.83	1/4	3,250.66	1/4	2,921.36	1/4	2,590.22	1/4	2,259.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,112.16	1/2	3,848.05	1/2	3,556.54	1/2	3,243.95	1/2	2,914.47	1/2	2,583.32	1/2	2,252.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,107.12	3/4	3,842.19	3/4	3,550.22	3/4	3,237.20	3/4	2,907.57	3/4	2,576.42	3/4	2,245.28		
2		2		2		2	4,102.08	2	3,836.34	2	3,543.90	2	3,230.45	2	2,900.67	2	2,569.53	2	2,238.38		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,097.04	1/4	3,830.48	1/4	3,537.58	1/4	3,223.70	1/4	2,893.77	1/4	2,562.63	1/4	2,231.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,092.00	1/2	3,824.63	1/2	3,531.26	1/2	3,216.95	1/2	2,886.87	1/2	2,555.73	1/2	2,224.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,086.92	3/4	3,818.73	3/4	3,524.90	3/4	3,210.17	3/4	2,879.97	3/4	2,548.83	3/4	2,217.69		
3		3		3		3	4,081.84	3	3,812.83	3	3,518.55	3	3,203.39	3	2,873.07	3	2,541.93	3	2,210.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,076.76	1/4	3,806.94	1/4	3,512.19	1/4	3,196.61	1/4	2,866.17	1/4	2,535.03	1/4	2,203.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,071.68	1/2	3,801.04	1/2	3,505.83	1/2	3,189.83	1/2	2,859.28	1/2	2,528.13	1/2	2,196.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,066.57	3/4	3,795.12	3/4	3,499.45	3/4	3,183.02	3/4	2,852.38	3/4	2,521.23	3/4	2,190.09		
4		4		4		4	4,061.46	4	3,789.19	4	3,493.06	4	3,176.20	4	2,845.48	4	2,514.34	4	2,183.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,056.35	1/4	3,783.26	1/4	3,486.68	1/4	3,169.39	1/4	2,838.58	1/4	2,507.44	1/4	2,176.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,051.24	1/2	3,777.34	1/2	3,480.30	1/2	3,162.58	1/2	2,831.68	1/2	2,500.54	1/2	2,169.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,046.10	3/4	3,771.36	3/4	3,473.88	3/4	3,155.73	3/4	2,824.78	3/4	2,493.64	3/4	2,162.50		
5		5		5		5	4,040.96	5	3,765.38	5	3,467.46	5	3,148.88	5	2,817.88	5	2,486.74	5	2,155.60		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,035.81	1/4	3,759.40	1/4	3,461.04	1/4	3,142.03	1/4	2,810.98	1/4	2,479.84	1/4	2,148.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,030.67	1/2	3,753.42	1/2	3,454.61	1/2	3,135.18	1/2	2,804.08	1/2	2,472.94	1/2	2,141.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,025.09	3/4	3,747.41	3/4	3,448.16	3/4	3,128.29	3/4	2,797.19	3/4	2,466.04	3/4	2,134.90		
6		6		6		6	4,019.50	6	3,741.40	6	3,441.71	6	3,121.41	6	2,790.29	6	2,459.14	6	2,128.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,013.91	1/4	3,735.40	1/4	3,435.26	1/4	3,114.52	1/4	2,783.39	1/4	2,452.25	1/4	2,121.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,287.61	1/2	4,008.33	1/2	3,729.39	1/2	3,428.80	1/2	3,107.63	1/2	2,776.49	1/2	2,445.35	1/2	2,114.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,281.12	3/4	4,002.71	3/4	3,723.35	3/4	3,422.31	3/4	3,100.73	3/4	2,769.59	3/4	2,438.45	3/4	2,107.31
7		7		7		7	4,274.62	7	3,997.09	7	3,717.31	7	3,415.81	7	3,093.83	7	2,762.69	7	2,431.55	7	2,100.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,268.13	1/4	3,991.47	1/4	3,711.27	1/4	3,409.32	1/4	3,086.94	1/4	2,755.79	1/4	2,424.65	1/4	2,093.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,261.64	1/2	3,985.85	1/2	3,705.23	1/2	3,402.82	1/2	3,080.04	1/2	2,748.89	1/2	2,417.75	1/2	2,086.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,255.14	3/4	3,980.19	3/4	3,699.15	3/4	3,396.30	3/4	3,073.14	3/4	2,742.00	3/4	2,410.85	3/4	2,079.71
8		8		8		8	4,248.65	8	3,974.53	8	3,693.08	8	3,389.77	8	3,066.24	8	2,735.10	8	2,403.95	8	2,072.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,242.16	1/4	3,968.87	1/4	3,687.00	1/4	3,383.25	1/4	3,059.34	1/4	2,728.20	1/4	2,397.06	1/4	2,065.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,235.67	1/2	3,963.21	1/2	3,680.92	1/2	3,376.72	1/2	3,052.44	1/2	2,721.30	1/2	2,390.16	1/2	2,059.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,229.17	3/4	3,957.52	3/4	3,674.77	3/4	3,370.16	3/4	3,045.54	3/4	2,714.40	3/4	2,383.26	3/4	2,052.12
9		9		9		9	4,222.68	9	3,951.83	9	3,668.63	9	3,363.59	9	3,038.64	9	2,707.50	9	2,376.36	9	2,045.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,216.19	1/4	3,946.14	1/4	3,662.48	1/4	3,357.03	1/4	3,031.75	1/4	2,700.60	1/4	2,369.46	1/4	2,038.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,209.69	1/2	3,940.45	1/2	3,656.34	1/2	3,350.46	1/2	3,024.85	1/2	2,693.70	1/2	2,362.56	1/2	2,031.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,203.23	3/4	3,934.72	3/4	3,650.15	3/4	3,343.86	3/4	3,017.95	3/4	2,686.81	3/4	2,355.66	3/4	2,024.52
10		10		10		10	4,196.78	10	3,928.99	10	3,643.97	10	3,337.25	10	3,011.05	10	2,679.91	10	2,348.76	10	2,017.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,190.32	1/4	3,923.25	1/4	3,637.78	1/4	3,330.65	1/4	3,004.15	1/4	2,673.01	1/4	2,341.87	1/4	2,010.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,183.86	1/2	3,917.52	1/2	3,631.60	1/2	3,324.04	1/2	2,997.25	1/2	2,666.11	1/2	2,334.97	1/2	2,003.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,177.40	3/4	3,911.76	3/4	3,625.38	3/4	3,317.40	3/4	2,990.35	3/4	2,659.21	3/4	2,328.07	3/4	1,996.93
11		11		11		11	4,170.94	11	3,906.00	11	3,619.16	11	3,310.77	11	2,983.45	11	2,652.31	11	2,321.17	11	1,990.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,164.48	1/4	3,900.24	1/4	3,612.95	1/4	3,304.13	1/4	2,976.55	1/4	2,645.41	1/4	2,314.27	1/4	1,983.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,158.02	1/2	3,894.47	1/2	3,606.73	1/2	3,297.49	1/2	2,969.66	1/2	2,638.51	1/2	2,307.37	1/2	1,976.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,151.56	3/4	3,888.69	3/4	3,600.47	3/4	3,290.82	3/4	2,962.76	3/4	2,631.61	3/4	2,300.47	3/4	1,969.33

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 27018"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 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	1,962.43	0	1,631.29	0	1,300.15	0	969.53	0	654.76	0	363.69	0	95.16	0		0			
1/4	1,955.53	1/4	1,624.39	1/4	1,293.25	1/4	962.73	1/4	648.44	1/4	357.85	1/4	89.81	1/4	1/4				1/4
1/2	1,948.63	1/2	1,617.49	1/2	1,286.35	1/2	955.93	1/2	642.12	1/2	352.02	1/2	84.46	1/2	1/2				1/2
3/4	1,941.73	3/4	1,610.59	3/4	1,279.45	3/4	949.17	3/4	635.84	3/4	346.22	3/4	79.14	3/4	3/4				3/4
1	1,934.84	1	1,603.69	1	1,272.55	1	942.41	1	629.57	1	340.43	1	73.83	1	1				1
1/4	1,927.94	1/4	1,596.79	1/4	1,265.65	1/4	935.65	1/4	623.29	1/4	334.63	1/4	68.52	1/4	1/4				1/4
1/2	1,921.04	1/2	1,589.90	1/2	1,258.75	1/2	928.89	1/2	617.01	1/2	328.84	1/2	63.20	1/2	1/2				1/2
3/4	1,914.14	3/4	1,583.00	3/4	1,251.85	3/4	922.18	3/4	610.79	3/4	323.08	3/4	57.93	3/4	3/4				3/4
2	1,907.24	2	1,576.10	2	1,244.96	2	915.46	2	604.56	2	317.33	2	52.66	2	2				2
1/4	1,900.34	1/4	1,569.20	1/4	1,238.06	1/4	908.74	1/4	598.33	1/4	311.57	1/4	47.38	1/4	1/4				1/4
1/2	1,893.44	1/2	1,562.30	1/2	1,231.16	1/2	902.02	1/2	592.10	1/2	305.82	1/2	42.11	1/2	1/2				1/2
3/4	1,886.54	3/4	1,555.40	3/4	1,224.26	3/4	895.34	3/4	585.92	3/4	300.11	3/4	37.74	3/4	3/4				3/4
3	1,879.65	3	1,548.50	3	1,217.36	3	888.67	3	579.74	3	294.39	3	33.37	3	3				3
1/4	1,872.75	1/4	1,541.60	1/4	1,210.46	1/4	881.99	1/4	573.56	1/4	288.68	1/4	29.00	1/4	1/4				1/4
1/2	1,865.85	1/2	1,534.71	1/2	1,203.56	1/2	875.31	1/2	567.38	1/2	282.96	1/2	24.63	1/2	1/2				1/2
3/4	1,858.95	3/4	1,527.81	3/4	1,196.66	3/4	868.67	3/4	561.24	3/4	277.29	3/4	22.02	3/4	3/4				3/4
4	1,852.05	4	1,520.91	4	1,189.77	4	862.03	4	555.10	4	271.61	4	19.41	4	4				4
1/4	1,845.15	1/4	1,514.01	1/4	1,182.87	1/4	855.40	1/4	548.96	1/4	265.94	1/4	16.81	1/4	1/4				1/4
1/2	1,838.25	1/2	1,507.11	1/2	1,175.97	1/2	848.76	1/2	542.82	1/2	260.26	1/2	14.20	1/2	1/2				1/2
3/4	1,831.35	3/4	1,500.21	3/4	1,169.07	3/4	842.16	3/4	536.72	3/4	254.63	3/4		3/4	3/4				3/4
5	1,824.46	5	1,493.31	5	1,162.17	5	835.56	5	530.62	5	248.99	5		5	5				5
1/4	1,817.56	1/4	1,486.41	1/4	1,155.27	1/4	828.96	1/4	524.52	1/4	243.36	1/4		1/4	1/4				1/4
1/2	1,810.66	1/2	1,479.52	1/2	1,148.37	1/2	822.37	1/2	518.42	1/2	237.73	1/2		1/2	1/2				1/2
3/4	1,803.76	3/4	1,472.62	3/4	1,141.47	3/4	815.81	3/4	512.36	3/4	232.13	3/4		3/4	3/4				3/4
6	1,796.86	6	1,465.72	6	1,134.58	6	809.25	6	506.30	6	226.54	6		6	6				6
1/4	1,789.96	1/4	1,458.82	1/4	1,127.68	1/4	802.69	1/4	500.24	1/4	220.94	1/4		1/4	1/4				1/4
1/2	1,783.06	1/2	1,451.92	1/2	1,120.78	1/2	796.14	1/2	494.18	1/2	215.35	1/2		1/2	1/2				1/2
3/4	1,776.16	3/4	1,445.02	3/4	1,113.88	3/4	789.62	3/4	488.16	3/4	209.79	3/4		3/4	3/4				3/4
7	1,769.26	7	1,438.12	7	1,106.98	7	783.10	7	482.14	7	204.24	7		7	7				7
1/4	1,762.37	1/4	1,431.22	1/4	1,100.08	1/4	776.58	1/4	476.12	1/4	198.69	1/4		1/4	1/4				1/4
1/2	1,755.47	1/2	1,424.32	1/2	1,093.18	1/2	770.07	1/2	470.10	1/2	193.13	1/2		1/2	1/2				1/2
3/4	1,748.57	3/4	1,417.43	3/4	1,086.28	3/4	763.59	3/4	464.12	3/4	187.62	3/4		3/4	3/4				3/4
8	1,741.67	8	1,410.53	8	1,079.38	8	757.11	8	458.14	8	182.10	8		8	8				8
1/4	1,734.77	1/4	1,403.63	1/4	1,072.49	1/4	750.63	1/4	452.16	1/4	176.59	1/4		1/4	1/4				1/4
1/2	1,727.87	1/2	1,396.73	1/2	1,065.59	1/2	744.15	1/2	446.18	1/2	171.08	1/2		1/2	1/2				1/2
3/4	1,720.97	3/4	1,389.83	3/4	1,058.69	3/4	737.72	3/4	440.24	3/4	165.60	3/4		3/4	3/4				3/4
9	1,714.07	9	1,382.93	9	1,051.79	9	731.28	9	434.30	9	160.13	9		9	9				9
1/4	1,707.18	1/4	1,376.03	1/4	1,044.89	1/4	724.84	1/4	428.36	1/4	154.65	1/4		1/4	1/4				1/4
1/2	1,700.28	1/2	1,369.13	1/2	1,037.99	1/2	718.41	1/2	422.42	1/2	149.18	1/2		1/2	1/2				1/2
3/4	1,693.38	3/4	1,362.24	3/4	1,031.11	3/4	712.01	3/4	416.52	3/4	143.75	3/4		3/4	3/4				3/4
10	1,686.48	10	1,355.34	10	1,024.23	10	705.61	10	410.62	10	138.31	10		10	10				10
1/4	1,679.58	1/4	1,348.44	1/4	1,017.36	1/4	699.21	1/4	404.72	1/4	132.88	1/4		1/4	1/4				1/4
1/2	1,672.68	1/2	1,341.54	1/2	1,010.48	1/2	692.82	1/2	398.82	1/2	127.45	1/2		1/2	1/2				1/2
3/4	1,665.78	3/4	1,334.64	3/4	1,003.64	3/4	686.46	3/4	392.96	3/4	122.05	3/4		3/4	3/4				3/4
11	1,658.88	11	1,327.74	11	996.80	11	680.10	11	387.09	11	116.66	11		11	11				11
1/4	1,651.99	1/4	1,320.84	1/4	989.96	1/4	673.75	1/4	381.23	1/4	111.26	1/4		1/4	1/4				1/4
1/2	1,645.09	1/2	1,313.94	1/2	983.12	1/2	667.39	1/2	375.36	1/2	105.87	1/2		1/2	1/2				1/2
3/4	1,638.19	3/4	1,307.05	3/4	976.32	3/4	661.07	3/4	369.52	3/4	100.52	3/4		3/4	3/4				3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/13/2014 PMA  
RECALCULATED: 09/26/2019 PMA  
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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



# BARGE "KIRBY 27018"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04"

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
							4,999.12		4,693.54		4,354.25		3,990.08		3,605.07		3,217.22		2,829.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,993.25	1/4	4,686.72	1/4	4,346.89	1/4	3,982.22	1/4	3,596.99	1/4	3,209.14	1/4	2,821.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,987.38	1/2	4,679.89	1/2	4,339.52	1/2	3,974.36	1/2	3,588.91	1/2	3,201.06	1/2	2,813.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,981.52	3/4	4,673.07	3/4	4,332.16	3/4	3,966.51	3/4	3,580.83	3/4	3,192.98	3/4	2,805.12
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,975.65</b>	<b>1</b>	<b>4,666.25</b>	<b>1</b>	<b>4,324.79</b>	<b>1</b>	<b>3,958.65</b>	<b>1</b>	<b>3,572.75</b>	<b>1</b>	<b>3,184.90</b>	<b>1</b>	<b>2,797.04</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,969.75	1/4	4,659.39	1/4	4,317.39	1/4	3,950.74	1/4	3,564.67	1/4	3,176.82	1/4	2,788.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,963.84	1/2	4,652.53	1/2	4,309.99	1/2	3,942.83	1/2	3,556.59	1/2	3,168.74	1/2	2,780.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,957.94	3/4	4,645.68	3/4	4,302.59	3/4	3,934.93	3/4	3,548.51	3/4	3,160.66	3/4	2,772.80
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,952.04</b>	<b>2</b>	<b>4,638.82</b>	<b>2</b>	<b>4,295.18</b>	<b>2</b>	<b>3,927.02</b>	<b>2</b>	<b>3,540.43</b>	<b>2</b>	<b>3,152.58</b>	<b>2</b>	<b>2,764.72</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,946.08	1/4	4,631.91	1/4	4,287.73	1/4	3,919.08	1/4	3,532.35	1/4	3,144.50	1/4	2,756.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,940.13	1/2	4,625.00	1/2	4,280.29	1/2	3,911.14	1/2	3,524.27	1/2	3,136.42	1/2	2,748.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,934.18	3/4	4,618.10	3/4	4,272.84	3/4	3,903.20	3/4	3,516.19	3/4	3,128.34	3/4	2,740.48
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,928.22</b>	<b>3</b>	<b>4,611.19</b>	<b>3</b>	<b>4,265.39</b>	<b>3</b>	<b>3,895.26</b>	<b>3</b>	<b>3,508.11</b>	<b>3</b>	<b>3,120.26</b>	<b>3</b>	<b>2,732.40</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,922.24	1/4	4,604.25	1/4	4,257.91	1/4	3,887.28	1/4	3,500.03	1/4	3,112.18	1/4	2,724.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,916.25	1/2	4,597.31	1/2	4,250.44	1/2	3,879.30	1/2	3,491.95	1/2	3,104.10	1/2	2,716.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,910.27	3/4	4,590.37	3/4	4,242.96	3/4	3,871.32	3/4	3,483.87	3/4	3,096.01	3/4	2,708.16
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,904.28</b>	<b>4</b>	<b>4,583.42</b>	<b>4</b>	<b>4,235.49</b>	<b>4</b>	<b>3,863.34</b>	<b>4</b>	<b>3,475.79</b>	<b>4</b>	<b>3,087.93</b>	<b>4</b>	<b>2,700.08</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,898.26	1/4	4,576.42	1/4	4,227.97	1/4	3,855.32	1/4	3,467.71	1/4	3,079.85	1/4	2,692.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,892.23	1/2	4,569.42	1/2	4,220.44	1/2	3,847.29	1/2	3,459.63	1/2	3,071.77	1/2	2,683.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.21	3/4	4,562.41	3/4	4,212.92	3/4	3,839.27	3/4	3,451.55	3/4	3,063.69	3/4	2,675.84
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,880.18</b>	<b>5</b>	<b>4,555.41</b>	<b>5</b>	<b>4,205.40</b>	<b>5</b>	<b>3,831.25</b>	<b>5</b>	<b>3,443.47</b>	<b>5</b>	<b>3,055.61</b>	<b>5</b>	<b>2,667.76</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,873.64	1/4	4,548.37	1/4	4,197.84	1/4	3,823.19	1/4	3,435.39	1/4	3,047.53	1/4	2,659.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,867.10	1/2	4,541.34	1/2	4,190.28	1/2	3,815.12	1/2	3,427.31	1/2	3,039.45	1/2	2,651.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,860.55	3/4	4,534.30	3/4	4,182.73	3/4	3,807.06	3/4	3,419.23	3/4	3,031.37	3/4	2,643.52
<b>6</b>	<b>6</b>	<b>6</b>	<b>5,181.16</b>	<b>6</b>	<b>4,854.01</b>	<b>6</b>	<b>4,527.26</b>	<b>6</b>	<b>4,175.17</b>	<b>6</b>	<b>3,799.00</b>	<b>6</b>	<b>3,411.15</b>	<b>6</b>	<b>3,023.29</b>	<b>6</b>	<b>2,635.44</b>		
1/4	1/4	1/4	5,173.55	1/4	4,847.42	1/4	4,520.19	1/4	4,167.56	1/4	3,790.92	1/4	3,403.07	1/4	3,015.21	1/4	2,627.36		
1/2	1/2	1/2	5,165.95	1/2	4,840.84	1/2	4,513.11	1/2	4,159.95	1/2	3,782.84	1/2	3,394.99	1/2	3,007.13	1/2	2,619.28		
3/4	3/4	3/4	5,158.34	3/4	4,834.26	3/4	4,506.04	3/4	4,152.34	3/4	3,774.76	3/4	3,386.91	3/4	2,999.05	3/4	2,611.20		
<b>7</b>	<b>7</b>	<b>7</b>	<b>5,150.74</b>	<b>7</b>	<b>4,827.68</b>	<b>7</b>	<b>4,498.97</b>	<b>7</b>	<b>4,144.73</b>	<b>7</b>	<b>3,766.68</b>	<b>7</b>	<b>3,378.83</b>	<b>7</b>	<b>2,990.97</b>	<b>7</b>	<b>2,603.12</b>		
1/4	1/4	1/4	5,143.13	1/4	4,821.05	1/4	4,491.84	1/4	4,137.09	1/4	3,758.60	1/4	3,370.74	1/4	2,982.89	1/4	2,595.04		
1/2	1/2	1/2	5,135.53	1/2	4,814.42	1/2	4,484.72	1/2	4,129.45	1/2	3,750.52	1/2	3,362.66	1/2	2,974.81	1/2	2,586.96		
3/4	3/4	3/4	5,127.92	3/4	4,807.79	3/4	4,477.60	3/4	4,121.81	3/4	3,742.44	3/4	3,354.58	3/4	2,966.73	3/4	2,578.88		
<b>8</b>	<b>8</b>	<b>8</b>	<b>5,120.32</b>	<b>8</b>	<b>4,801.16</b>	<b>8</b>	<b>4,470.48</b>	<b>8</b>	<b>4,114.17</b>	<b>8</b>	<b>3,734.36</b>	<b>8</b>	<b>3,346.50</b>	<b>8</b>	<b>2,958.65</b>	<b>8</b>	<b>2,570.80</b>		
1/4	1/4	1/4	5,112.71	1/4	4,794.49	1/4	4,463.29	1/4	4,106.47	1/4	3,726.28	1/4	3,338.42	1/4	2,950.57	1/4	2,562.71		
1/2	1/2	1/2	5,105.11	1/2	4,787.83	1/2	4,456.09	1/2	4,098.78	1/2	3,718.20	1/2	3,330.34	1/2	2,942.49	1/2	2,554.63		
3/4	3/4	3/4	5,097.50	3/4	4,781.16	3/4	4,448.89	3/4	4,091.09	3/4	3,710.12	3/4	3,322.26	3/4	2,934.41	3/4	2,546.55		
<b>9</b>	<b>9</b>	<b>9</b>	<b>5,089.89</b>	<b>9</b>	<b>4,774.50</b>	<b>9</b>	<b>4,441.69</b>	<b>9</b>	<b>4,083.40</b>	<b>9</b>	<b>3,702.04</b>	<b>9</b>	<b>3,314.18</b>	<b>9</b>	<b>2,926.33</b>	<b>9</b>	<b>2,538.47</b>		
1/4	1/4	1/4	5,082.33	1/4	4,767.78	1/4	4,434.45	1/4	4,075.67	1/4	3,693.96	1/4	3,306.10	1/4	2,918.25	1/4	2,530.39		
1/2	1/2	1/2	5,074.76	1/2	4,761.07	1/2	4,427.20	1/2	4,067.93	1/2	3,685.88	1/2	3,298.02	1/2	2,910.17	1/2	2,522.31		
3/4	3/4	3/4	5,067.20	3/4	4,754.35	3/4	4,419.95	3/4	4,060.19	3/4	3,677.80	3/4	3,289.94	3/4	2,902.09	3/4	2,514.23		
<b>10</b>	<b>10</b>	<b>10</b>	<b>5,059.63</b>	<b>10</b>	<b>4,747.63</b>	<b>10</b>	<b>4,412.71</b>	<b>10</b>	<b>4,052.46</b>	<b>10</b>	<b>3,669.72</b>	<b>10</b>	<b>3,281.86</b>	<b>10</b>	<b>2,894.01</b>	<b>10</b>	<b>2,506.15</b>		
1/4	1/4	1/4	5,052.07	1/4	4,740.89	1/4	4,405.43	1/4	4,044.68	1/4	3,661.64	1/4	3,273.78	1/4	2,885.93	1/4	2,498.07		
1/2	1/2	1/2	5,044.51	1/2	4,734.14	1/2	4,398.15	1/2	4,036.91	1/2	3,653.56	1/2	3,265.70	1/2	2,877.85	1/2	2,489.99		
3/4	3/4	3/4	5,036.94	3/4	4,727.39	3/4	4,390.86	3/4	4,029.14	3/4	3,645.48	3/4	3,257.62	3/4	2,869.77	3/4	2,481.91		
<b>11</b>	<b>11</b>	<b>11</b>	<b>5,029.38</b>	<b>11</b>	<b>4,720.64</b>	<b>11</b>	<b>4,383.58</b>	<b>11</b>	<b>4,021.36</b>	<b>11</b>	<b>3,637.39</b>	<b>11</b>	<b>3,249.54</b>	<b>11</b>	<b>2,861.69</b>	<b>11</b>	<b>2,473.83</b>		
1/4	1/4	1/4	5,021.81	1/4	4,713.86	1/4	4,376.25	1/4	4,013.54	1/4	3,629.31	1/4	3,241.46	1/4	2,853.61	1/4	2,465.75		
1/2	1/2	1/2	5,014.25	1/2	4,707.09	1/2	4,368.92	1/2	4,005.72	1/2	3,621.23	1/2	3,233.38	1/2	2,845.53	1/2	2,457.67		
3/4	3/4	3/4	5,006.68	3/4	4,700.31	3/4	4,361.59	3/4	3,997.90	3/4	3,613.15	3/4	3,225.30	3/4	2,837.45	3/4	2,449.59		

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-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 27018"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04"

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	2,441.51	0	2,053.66	0	1,665.80	0	1,277.95	0	890.09	0	516.91	0	129.68	0		0		0	
1/4	2,433.43	1/4	2,045.58	1/4	1,657.72	1/4	1,269.87	1/4	882.17	1/4	508.98	1/4	121.60	1/4	1/4		1/4		1/4
1/2	2,425.35	1/2	2,037.50	1/2	1,649.64	1/2	1,261.79	1/2	874.24	1/2	501.06	1/2	113.52	1/2	1/2		1/2		1/2
3/4	2,417.27	3/4	2,029.42	3/4	1,641.56	3/4	1,253.71	3/4	866.31	3/4	493.13	3/4	105.44	3/4	3/4		3/4		3/4
1	2,409.19	1	2,021.33	1	1,633.48	1	1,245.63	1	858.38	1	485.20	1	97.36	1	1		1		1
1/4	2,401.11	1/4	2,013.25	1/4	1,625.40	1/4	1,237.55	1/4	850.62	1/4	477.12	1/4	89.28	1/4	1/4		1/4		1/4
1/2	2,393.03	1/2	2,005.17	1/2	1,617.32	1/2	1,229.47	1/2	842.85	1/2	469.04	1/2	81.20	1/2	1/2		1/2		1/2
3/4	2,384.95	3/4	1,997.09	3/4	1,609.24	3/4	1,221.39	3/4	835.09	3/4	460.96	3/4	73.12	3/4	3/4		3/4		3/4
2	2,376.87	2	1,989.01	2	1,601.16	2	1,213.30	2	827.32	2	452.88	2	65.04	2	2		2		2
1/4	2,368.79	1/4	1,980.93	1/4	1,593.08	1/4	1,205.22	1/4	819.57	1/4	444.80	1/4	57.97	1/4	1/4		1/4		1/4
1/2	2,360.71	1/2	1,972.85	1/2	1,585.00	1/2	1,197.14	1/2	811.81	1/2	436.72	1/2	50.90	1/2	1/2		1/2		1/2
3/4	2,352.63	3/4	1,964.77	3/4	1,576.92	3/4	1,189.06	3/4	804.05	3/4	428.64	3/4	43.83	3/4	3/4		3/4		3/4
3	2,344.55	3	1,956.69	3	1,568.84	3	1,180.98	3	796.29	3	420.56	3	36.76	3	3		3		3
1/4	2,336.47	1/4	1,948.61	1/4	1,560.76	1/4	1,172.90	1/4	788.53	1/4	412.48	1/4	31.71	1/4	1/4		1/4		1/4
1/2	2,328.39	1/2	1,940.53	1/2	1,552.68	1/2	1,164.82	1/2	780.77	1/2	404.40	1/2	26.66	1/2	1/2		1/2		1/2
3/4	2,320.31	3/4	1,932.45	3/4	1,544.60	3/4	1,156.74	3/4	773.02	3/4	396.32	3/4	21.61	3/4	3/4		3/4		3/4
4	2,312.23	4	1,924.37	4	1,536.52	4	1,148.66	4	765.26	4	388.24	4	16.56	4	4		4		4
1/4	2,304.15	1/4	1,916.29	1/4	1,528.44	1/4	1,140.58	1/4	757.50	1/4	380.16	1/4		1/4	1/4		1/4		1/4
1/2	2,296.06	1/2	1,908.21	1/2	1,520.36	1/2	1,132.50	1/2	749.74	1/2	372.08	1/2		1/2	1/2		1/2		1/2
3/4	2,287.98	3/4	1,900.13	3/4	1,512.28	3/4	1,124.42	3/4	741.98	3/4	364.00	3/4		3/4	3/4		3/4		3/4
5	2,279.90	5	1,892.05	5	1,504.20	5	1,116.34	5	734.22	5	355.92	5		5	5		5		5
1/4	2,271.82	1/4	1,883.97	1/4	1,496.12	1/4	1,108.26	1/4	726.47	1/4	347.84	1/4		1/4	1/4		1/4		1/4
1/2	2,263.74	1/2	1,875.89	1/2	1,488.03	1/2	1,100.18	1/2	718.71	1/2	339.76	1/2		1/2	1/2		1/2		1/2
3/4	2,255.66	3/4	1,867.81	3/4	1,479.95	3/4	1,092.10	3/4	710.95	3/4	331.68	3/4		3/4	3/4		3/4		3/4
6	2,247.58	6	1,859.73	6	1,471.87	6	1,084.02	6	703.19	6	323.60	6		6	6		6		6
1/4	2,239.50	1/4	1,851.65	1/4	1,463.79	1/4	1,075.94	1/4	695.43	1/4	315.52	1/4		1/4	1/4		1/4		1/4
1/2	2,231.42	1/2	1,843.57	1/2	1,455.71	1/2	1,067.86	1/2	687.68	1/2	307.44	1/2		1/2	1/2		1/2		1/2
3/4	2,223.34	3/4	1,835.49	3/4	1,447.63	3/4	1,059.78	3/4	679.92	3/4	299.36	3/4		3/4	3/4		3/4		3/4
7	2,215.26	7	1,827.41	7	1,439.55	7	1,051.70	7	672.16	7	291.28	7		7	7		7		7
1/4	2,207.18	1/4	1,819.33	1/4	1,431.47	1/4	1,043.62	1/4	664.40	1/4	283.20	1/4		1/4	1/4		1/4		1/4
1/2	2,199.10	1/2	1,811.25	1/2	1,423.39	1/2	1,035.54	1/2	656.65	1/2	275.12	1/2		1/2	1/2		1/2		1/2
3/4	2,191.02	3/4	1,803.17	3/4	1,415.31	3/4	1,027.46	3/4	648.89	3/4	267.04	3/4		3/4	3/4		3/4		3/4
8	2,182.94	8	1,795.09	8	1,407.23	8	1,019.38	8	641.13	8	258.96	8		8	8		8		8
1/4	2,174.86	1/4	1,787.01	1/4	1,399.15	1/4	1,011.30	1/4	633.37	1/4	250.88	1/4		1/4	1/4		1/4		1/4
1/2	2,166.78	1/2	1,778.93	1/2	1,391.07	1/2	1,003.22	1/2	625.62	1/2	242.80	1/2		1/2	1/2		1/2		1/2
3/4	2,158.70	3/4	1,770.85	3/4	1,382.99	3/4	995.14	3/4	617.86	3/4	234.72	3/4		3/4	3/4		3/4		3/4
9	2,150.62	9	1,762.77	9	1,374.91	9	987.06	9	610.10	9	226.64	9		9	9		9		9
1/4	2,142.54	1/4	1,754.68	1/4	1,366.83	1/4	978.98	1/4	602.34	1/4	218.56	1/4		1/4	1/4		1/4		1/4
1/2	2,134.46	1/2	1,746.60	1/2	1,358.75	1/2	970.90	1/2	594.58	1/2	210.48	1/2		1/2	1/2		1/2		1/2
3/4	2,126.38	3/4	1,738.52	3/4	1,350.67	3/4	962.82	3/4	586.83	3/4	202.40	3/4		3/4	3/4		3/4		3/4
10	2,118.30	10	1,730.44	10	1,342.59	10	954.74	10	579.07	10	194.32	10		10	10		10		10
1/4	2,110.22	1/4	1,722.36	1/4	1,334.51	1/4	946.65	1/4	571.30	1/4	186.24	1/4		1/4	1/4		1/4		1/4
1/2	2,102.14	1/2	1,714.28	1/2	1,326.43	1/2	938.57	1/2	563.54	1/2	178.16	1/2		1/2	1/2		1/2		1/2
3/4	2,094.06	3/4	1,706.20	3/4	1,318.35	3/4	930.49	3/4	555.77	3/4	170.08	3/4		3/4	3/4		3/4		3/4
11	2,085.98	11	1,698.12	11	1,310.27	11	922.41	11	548.01	11	162.00	11		11	11		11		11
1/4	2,077.90	1/4	1,690.04	1/4	1,302.19	1/4	914.33	1/4	540.23	1/4	153.92	1/4		1/4	1/4		1/4		1/4
1/2	2,069.82	1/2	1,681.96	1/2	1,294.11	1/2	906.25	1/2	532.46	1/2	145.84	1/2		1/2	1/2		1/2		1/2
3/4	2,061.74	3/4	1,673.88	3/4	1,286.03	3/4	898.17	3/4	524.69	3/4	137.76	3/4		3/4	3/4		3/4		3/4

STRAPPED: 06/13/2014 PMA  
RECALCULATED: 09/26/2019 PMA  
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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 27018"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04"

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
							5,016.19		4,710.40		4,370.93		4,006.57		3,621.38		3,233.36		2,845.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,010.31	1/4	4,703.58	1/4	4,363.56	1/4	3,998.71	1/4	3,613.30	1/4	3,225.27	1/4	2,837.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,004.44	1/2	4,696.75	1/2	4,356.19	1/2	3,990.85	1/2	3,605.22	1/2	3,217.19	1/2	2,829.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,998.57	3/4	4,689.93	3/4	4,348.82	3/4	3,982.99	3/4	3,597.13	3/4	3,209.11	3/4	2,821.08
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,992.70</b>	<b>1</b>	<b>4,683.10</b>	<b>1</b>	<b>4,341.45</b>	<b>1</b>	<b>3,975.13</b>	<b>1</b>	<b>3,589.05</b>	<b>1</b>	<b>3,201.02</b>	<b>1</b>	<b>2,812.99</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,986.79	1/4	4,676.24	1/4	4,334.05	1/4	3,967.22	1/4	3,580.97	1/4	3,192.94	1/4	2,804.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,980.89	1/2	4,669.38	1/2	4,326.64	1/2	3,959.31	1/2	3,572.88	1/2	3,184.85	1/2	2,796.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,974.98	3/4	4,662.51	3/4	4,319.24	3/4	3,951.40	3/4	3,564.80	3/4	3,176.77	3/4	2,788.74
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,969.07</b>	<b>2</b>	<b>4,655.65</b>	<b>2</b>	<b>4,311.83</b>	<b>2</b>	<b>3,943.48</b>	<b>2</b>	<b>3,556.71</b>	<b>2</b>	<b>3,168.69</b>	<b>2</b>	<b>2,780.66</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,963.11	1/4	4,648.74	1/4	4,304.38	1/4	3,935.54	1/4	3,548.63	1/4	3,160.60	1/4	2,772.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.16	1/2	4,641.83	1/2	4,296.92	1/2	3,927.60	1/2	3,540.55	1/2	3,152.52	1/2	2,764.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,951.20	3/4	4,634.92	3/4	4,289.47	3/4	3,919.65	3/4	3,532.46	3/4	3,144.43	3/4	2,756.41
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,945.24</b>	<b>3</b>	<b>4,628.01</b>	<b>3</b>	<b>4,282.02</b>	<b>3</b>	<b>3,911.71</b>	<b>3</b>	<b>3,524.38</b>	<b>3</b>	<b>3,136.35</b>	<b>3</b>	<b>2,748.32</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,939.25	1/4	4,621.07	1/4	4,274.54	1/4	3,903.72	1/4	3,516.29	1/4	3,128.27	1/4	2,740.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,933.26	1/2	4,614.12	1/2	4,267.06	1/2	3,895.74	1/2	3,508.21	1/2	3,120.18	1/2	2,732.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,927.27	3/4	4,607.17	3/4	4,259.58	3/4	3,887.76	3/4	3,500.13	3/4	3,112.10	3/4	2,724.07
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,921.28</b>	<b>4</b>	<b>4,600.23</b>	<b>4</b>	<b>4,252.10</b>	<b>4</b>	<b>3,879.78</b>	<b>4</b>	<b>3,492.04</b>	<b>4</b>	<b>3,104.02</b>	<b>4</b>	<b>2,715.99</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,915.25	1/4	4,593.22	1/4	4,244.58	1/4	3,871.75	1/4	3,483.96	1/4	3,095.93	1/4	2,707.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,909.22	1/2	4,586.21	1/2	4,237.05	1/2	3,863.72	1/2	3,475.87	1/2	3,087.85	1/2	2,699.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,903.19	3/4	4,579.20	3/4	4,229.53	3/4	3,855.70	3/4	3,467.79	3/4	3,079.76	3/4	2,691.74
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,897.17</b>	<b>5</b>	<b>4,572.20</b>	<b>5</b>	<b>4,222.00</b>	<b>5</b>	<b>3,847.67</b>	<b>5</b>	<b>3,459.71</b>	<b>5</b>	<b>3,071.68</b>	<b>5</b>	<b>2,683.65</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,890.62	1/4	4,565.16	1/4	4,214.44	1/4	3,839.60	1/4	3,451.62	1/4	3,063.60	1/4	2,675.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,884.07	1/2	4,558.11	1/2	4,206.88	1/2	3,831.53	1/2	3,443.54	1/2	3,055.51	1/2	2,667.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,877.52	3/4	4,551.07	3/4	4,199.31	3/4	3,823.47	3/4	3,435.46	3/4	3,047.43	3/4	2,659.40
<b>6</b>	<b>6</b>	<b>6</b>	<b>5,198.32</b>	<b>6</b>	<b>4,870.97</b>	<b>6</b>	<b>4,544.03</b>	<b>6</b>	<b>4,191.75</b>	<b>6</b>	<b>3,815.40</b>	<b>6</b>	<b>3,427.37</b>	<b>6</b>	<b>3,039.34</b>	<b>6</b>	<b>2,651.32</b>		
1/4	1/4	1/4	5,190.71	1/4	4,864.39	1/4	4,536.95	1/4	4,184.14	1/4	3,807.31	1/4	3,419.29	1/4	3,031.26	1/4	2,643.23		
1/2	1/2	1/2	5,183.10	1/2	4,857.80	1/2	4,529.88	1/2	4,176.53	1/2	3,799.23	1/2	3,411.20	1/2	3,023.18	1/2	2,635.15		
3/4	3/4	3/4	5,175.49	3/4	4,851.21	3/4	4,522.80	3/4	4,168.91	3/4	3,791.15	3/4	3,403.12	3/4	3,015.09	3/4	2,627.07		
<b>7</b>	<b>7</b>	<b>7</b>	<b>5,167.88</b>	<b>7</b>	<b>4,844.63</b>	<b>7</b>	<b>4,515.72</b>	<b>7</b>	<b>4,161.30</b>	<b>7</b>	<b>3,783.06</b>	<b>7</b>	<b>3,395.04</b>	<b>7</b>	<b>3,007.01</b>	<b>7</b>	<b>2,618.98</b>		
1/4	1/4	1/4	5,160.27	1/4	4,837.99	1/4	4,508.60	1/4	4,153.66	1/4	3,774.98	1/4	3,386.95	1/4	2,998.92	1/4	2,610.90		
1/2	1/2	1/2	5,152.66	1/2	4,831.36	1/2	4,501.47	1/2	4,146.01	1/2	3,766.90	1/2	3,378.87	1/2	2,990.84	1/2	2,602.81		
3/4	3/4	3/4	5,145.06	3/4	4,824.73	3/4	4,494.35	3/4	4,138.37	3/4	3,758.81	3/4	3,370.78	3/4	2,982.76	3/4	2,594.73		
<b>8</b>	<b>8</b>	<b>8</b>	<b>5,137.45</b>	<b>8</b>	<b>4,818.09</b>	<b>8</b>	<b>4,487.22</b>	<b>8</b>	<b>4,130.72</b>	<b>8</b>	<b>3,750.73</b>	<b>8</b>	<b>3,362.70</b>	<b>8</b>	<b>2,974.67</b>	<b>8</b>	<b>2,586.65</b>		
1/4	1/4	1/4	5,129.84	1/4	4,811.42	1/4	4,480.02	1/4	4,123.03	1/4	3,742.64	1/4	3,354.62	1/4	2,966.59	1/4	2,578.56		
1/2	1/2	1/2	5,122.23	1/2	4,804.75	1/2	4,472.82	1/2	4,115.33	1/2	3,734.56	1/2	3,346.53	1/2	2,958.50	1/2	2,570.48		
3/4	3/4	3/4	5,114.62	3/4	4,798.08	3/4	4,465.62	3/4	4,107.64	3/4	3,726.48	3/4	3,338.45	3/4	2,950.42	3/4	2,562.39		
<b>9</b>	<b>9</b>	<b>9</b>	<b>5,107.01</b>	<b>9</b>	<b>4,791.41</b>	<b>9</b>	<b>4,458.42</b>	<b>9</b>	<b>4,099.94</b>	<b>9</b>	<b>3,718.39</b>	<b>9</b>	<b>3,330.36</b>	<b>9</b>	<b>2,942.34</b>	<b>9</b>	<b>2,554.31</b>		
1/4	1/4	1/4	5,099.44	1/4	4,784.69	1/4	4,451.17	1/4	4,092.20	1/4	3,710.31	1/4	3,322.28	1/4	2,934.25	1/4	2,546.23		
1/2	1/2	1/2	5,091.87	1/2	4,777.97	1/2	4,443.92	1/2	4,084.46	1/2	3,702.22	1/2	3,314.20	1/2	2,926.17	1/2	2,538.14		
3/4	3/4	3/4	5,084.30	3/4	4,771.25	3/4	4,436.67	3/4	4,076.72	3/4	3,694.14	3/4	3,306.11	3/4	2,918.09	3/4	2,530.06		
<b>10</b>	<b>10</b>	<b>10</b>	<b>5,076.73</b>	<b>10</b>	<b>4,764.53</b>	<b>10</b>	<b>4,429.42</b>	<b>10</b>	<b>4,068.98</b>	<b>10</b>	<b>3,686.06</b>	<b>10</b>	<b>3,298.03</b>	<b>10</b>	<b>2,910.00</b>	<b>10</b>	<b>2,521.97</b>		
1/4	1/4	1/4	5,069.17	1/4	4,757.78	1/4	4,422.13	1/4	4,061.21	1/4	3,677.97	1/4	3,289.94	1/4	2,901.92	1/4	2,513.89		
1/2	1/2	1/2	5,061.60	1/2	4,751.03	1/2	4,414.85	1/2	4,053.43	1/2	3,669.89	1/2	3,281.86	1/2	2,893.83	1/2	2,505.81		
3/4	3/4	3/4	5,054.03	3/4	4,744.27	3/4	4,407.56	3/4	4,045.65	3/4	3,661.80	3/4	3,273.78	3/4	2,885.75	3/4	2,497.72		
<b>11</b>	<b>11</b>	<b>11</b>	<b>5,046.46</b>	<b>11</b>	<b>4,737.52</b>	<b>11</b>	<b>4,400.27</b>	<b>11</b>	<b>4,037.87</b>	<b>11</b>	<b>3,653.72</b>	<b>11</b>	<b>3,265.69</b>	<b>11</b>	<b>2,877.67</b>	<b>11</b>	<b>2,489.64</b>		
1/4	1/4	1/4	5,038.89	1/4	4,730.74	1/4	4,392.94	1/4	4,030.05	1/4	3,645.64	1/4	3,257.61	1/4	2,869.58	1/4	2,481.55		
1/2	1/2	1/2	5,031.32	1/2	4,723.96	1/2	4,385.60	1/2	4,022.22	1/2	3,637.55	1/2	3,249.53	1/2	2,861.50	1/2	2,473.47		
3/4	3/4	3/4	5,023.75	3/4	4,717.18	3/4	4,378.27	3/4	4,014.40	3/4	3,629.47	3/4	3,241.44	3/4	2,853.41	3/4	2,465.39		

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-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 27018"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04"

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	2,457.30	0	2,069.28	0	1,681.25	0	1,293.22	0	905.19	0	517.75	0	129.74	0		0		0	
1/4	2,449.22	1/4	2,061.19	1/4	1,673.16	1/4	1,285.14	1/4	897.11	1/4	509.67	1/4	121.65	1/4	1/4	1/4		1/4	
1/2	2,441.14	1/2	2,053.11	1/2	1,665.08	1/2	1,277.05	1/2	889.03	1/2	501.59	1/2	113.57	1/2	1/2	1/2		1/2	
3/4	2,433.05	3/4	2,045.02	3/4	1,657.00	3/4	1,268.97	3/4	880.94	3/4	493.50	3/4	105.49	3/4	3/4	3/4		3/4	
1	2,424.97	1	2,036.94	1	1,648.91	1	1,260.89	1	872.86	1	485.42	1	97.40	1	1	1		1	
1/4	2,416.88	1/4	2,028.86	1/4	1,640.83	1/4	1,252.80	1/4	864.78	1/4	477.34	1/4	89.32	1/4	1/4	1/4		1/4	
1/2	2,408.80	1/2	2,020.77	1/2	1,632.75	1/2	1,244.72	1/2	856.71	1/2	469.25	1/2	81.23	1/2	1/2	1/2		1/2	
3/4	2,400.72	3/4	2,012.69	3/4	1,624.66	3/4	1,236.63	3/4	848.63	3/4	461.17	3/4	73.15	3/4	3/4	3/4		3/4	
2	2,392.63	2	2,004.60	2	1,616.58	2	1,228.55	2	840.56	2	453.09	2	65.07	2	2	2		2	
1/4	2,384.55	1/4	1,996.52	1/4	1,608.49	1/4	1,220.47	1/4	832.49	1/4	445.00	1/4	57.99	1/4	1/4	1/4		1/4	
1/2	2,376.46	1/2	1,988.44	1/2	1,600.41	1/2	1,212.38	1/2	824.42	1/2	436.92	1/2	50.92	1/2	1/2	1/2		1/2	
3/4	2,368.38	3/4	1,980.35	3/4	1,592.33	3/4	1,204.30	3/4	816.35	3/4	428.83	3/4	43.85	3/4	3/4	3/4		3/4	
3	2,360.30	3	1,972.27	3	1,584.24	3	1,196.21	3	808.29	3	420.75	3	36.77	3	3	3		3	
1/4	2,352.21	1/4	1,964.19	1/4	1,576.16	1/4	1,188.13	1/4	800.22	1/4	412.67	1/4	31.72	1/4	1/4	1/4		1/4	
1/2	2,344.13	1/2	1,956.10	1/2	1,568.07	1/2	1,180.05	1/2	792.15	1/2	404.58	1/2	26.67	1/2	1/2	1/2		1/2	
3/4	2,336.04	3/4	1,948.02	3/4	1,559.99	3/4	1,171.96	3/4	784.08	3/4	396.50	3/4	21.61	3/4	3/4	3/4		3/4	
4	2,327.96	4	1,939.93	4	1,551.91	4	1,163.88	4	776.01	4	388.42	4	16.56	4	4	4		4	
1/4	2,319.88	1/4	1,931.85	1/4	1,543.82	1/4	1,155.80	1/4	767.95	1/4	380.33	1/4		1/4	1/4	1/4		1/4	
1/2	2,311.79	1/2	1,923.77	1/2	1,535.74	1/2	1,147.71	1/2	759.88	1/2	372.25	1/2		1/2	1/2	1/2		1/2	
3/4	2,303.71	3/4	1,915.68	3/4	1,527.65	3/4	1,139.63	3/4	751.81	3/4	364.16	3/4		3/4	3/4	3/4		3/4	
5	2,295.63	5	1,907.60	5	1,519.57	5	1,131.54	5	743.74	5	356.08	5		5	5	5		5	
1/4	2,287.54	1/4	1,899.51	1/4	1,511.49	1/4	1,123.46	1/4	735.67	1/4	348.00	1/4		1/4	1/4	1/4		1/4	
1/2	2,279.46	1/2	1,891.43	1/2	1,503.40	1/2	1,115.38	1/2	727.60	1/2	339.91	1/2		1/2	1/2	1/2		1/2	
3/4	2,271.37	3/4	1,883.35	3/4	1,495.32	3/4	1,107.29	3/4	719.54	3/4	331.83	3/4		3/4	3/4	3/4		3/4	
6	2,263.29	6	1,875.26	6	1,487.24	6	1,099.21	6	711.47	6	323.75	6		6	6	6		6	
1/4	2,255.21	1/4	1,867.18	1/4	1,479.15	1/4	1,091.12	1/4	703.40	1/4	315.66	1/4		1/4	1/4	1/4		1/4	
1/2	2,247.12	1/2	1,859.09	1/2	1,471.07	1/2	1,083.04	1/2	695.33	1/2	307.58	1/2		1/2	1/2	1/2		1/2	
3/4	2,239.04	3/4	1,851.01	3/4	1,462.98	3/4	1,074.96	3/4	687.27	3/4	299.49	3/4		3/4	3/4	3/4		3/4	
7	2,230.95	7	1,842.93	7	1,454.90	7	1,066.87	7	679.20	7	291.41	7		7	7	7		7	
1/4	2,222.87	1/4	1,834.84	1/4	1,446.82	1/4	1,058.79	1/4	671.13	1/4	283.33	1/4		1/4	1/4	1/4		1/4	
1/2	2,214.79	1/2	1,826.76	1/2	1,438.73	1/2	1,050.70	1/2	663.07	1/2	275.24	1/2		1/2	1/2	1/2		1/2	
3/4	2,206.70	3/4	1,818.68	3/4	1,430.65	3/4	1,042.62	3/4	655.00	3/4	267.16	3/4		3/4	3/4	3/4		3/4	
8	2,198.62	8	1,810.59	8	1,422.56	8	1,034.54	8	646.93	8	259.08	8		8	8	8		8	
1/4	2,190.53	1/4	1,802.51	1/4	1,414.48	1/4	1,026.45	1/4	638.86	1/4	250.99	1/4		1/4	1/4	1/4		1/4	
1/2	2,182.45	1/2	1,794.42	1/2	1,406.40	1/2	1,018.37	1/2	630.80	1/2	242.91	1/2		1/2	1/2	1/2		1/2	
3/4	2,174.37	3/4	1,786.34	3/4	1,398.31	3/4	1,010.29	3/4	622.73	3/4	234.83	3/4		3/4	3/4	3/4		3/4	
9	2,166.28	9	1,778.26	9	1,390.23	9	1,002.20	9	614.66	9	226.74	9		9	9	9		9	
1/4	2,158.20	1/4	1,770.17	1/4	1,382.14	1/4	994.12	1/4	606.59	1/4	218.66	1/4		1/4	1/4	1/4		1/4	
1/2	2,150.11	1/2	1,762.09	1/2	1,374.06	1/2	986.03	1/2	598.52	1/2	210.57	1/2		1/2	1/2	1/2		1/2	
3/4	2,142.03	3/4	1,754.00	3/4	1,365.98	3/4	977.95	3/4	590.46	3/4	202.49	3/4		3/4	3/4	3/4		3/4	
10	2,133.95	10	1,745.92	10	1,357.89	10	969.87	10	582.39	10	194.41	10		10	10	10		10	
1/4	2,125.86	1/4	1,737.84	1/4	1,349.81	1/4	961.78	1/4	574.31	1/4	186.32	1/4		1/4	1/4	1/4		1/4	
1/2	2,117.78	1/2	1,729.75	1/2	1,341.72	1/2	953.70	1/2	566.24	1/2	178.24	1/2		1/2	1/2	1/2		1/2	
3/4	2,109.70	3/4	1,721.67	3/4	1,333.64	3/4	945.61	3/4	558.16	3/4	170.16	3/4		3/4	3/4	3/4		3/4	
11	2,101.61	11	1,713.58	11	1,325.56	11	937.53	11	550.09	11	162.07	11		11	11	11		11	
1/4	2,093.53	1/4	1,705.50	1/4	1,317.47	1/4	929.45	1/4	542.01	1/4	153.99	1/4		1/4	1/4	1/4		1/4	
1/2	2,085.44	1/2	1,697.42	1/2	1,309.39	1/2	921.36	1/2	533.92	1/2	145.90	1/2		1/2	1/2	1/2		1/2	
3/4	2,077.36	3/4	1,689.33	3/4	1,301.31	3/4	913.28	3/4	525.84	3/4	137.82	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 06/13/2014 PMA  
RECALCULATED: 09/26/2019 PMA  
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 27018"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,277.30	0	4,077.90	0	3,859.50	0	3,618.11	0	3,355.52	0	3,003.70	0	2,643.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,271.83	1/4	4,073.60	1/4	3,854.69	1/4	3,612.82	1/4	3,349.99	1/4	2,996.21	1/4	2,636.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,266.35	1/2	4,069.29	1/2	3,849.88	1/2	3,607.52	1/2	3,344.46	1/2	2,988.72	1/2	2,628.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,262.45	3/4	4,064.95	3/4	3,845.04	3/4	3,602.19	3/4	3,337.95	3/4	2,981.22	3/4	2,621.16		
1		1		1		1	4,258.56	1	4,060.60	1	3,840.20	1	3,596.86	1	3,331.43	1	2,973.72	1	2,613.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,254.66	1/4	4,056.25	1/4	3,835.36	1/4	3,591.53	1/4	3,324.92	1/4	2,966.22	1/4	2,606.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,250.76	1/2	4,051.91	1/2	3,830.53	1/2	3,586.20	1/2	3,318.40	1/2	2,958.72	1/2	2,598.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,246.83	3/4	4,047.53	3/4	3,825.65	3/4	3,580.82	3/4	3,310.90	3/4	2,951.22	3/4	2,591.15		
2		2		2		2	4,242.89	2	4,043.15	2	3,820.78	2	3,575.44	2	3,303.40	2	2,943.71	2	2,583.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,238.96	1/4	4,038.77	1/4	3,815.90	1/4	3,570.07	1/4	3,295.90	1/4	2,936.21	1/4	2,576.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,235.03	1/2	4,034.38	1/2	3,811.03	1/2	3,564.69	1/2	3,288.40	1/2	2,928.71	1/2	2,568.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,231.05	3/4	4,029.96	3/4	3,806.11	3/4	3,559.28	3/4	3,280.90	3/4	2,921.21	3/4	2,561.14		
3		3		3		3	4,227.07	3	4,025.53	3	3,801.20	3	3,553.87	3	3,273.40	3	2,913.71	3	2,553.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,223.09	1/4	4,021.11	1/4	3,796.28	1/4	3,548.47	1/4	3,265.90	1/4	2,906.21	1/4	2,546.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,219.11	1/2	4,016.68	1/2	3,791.36	1/2	3,543.06	1/2	3,258.40	1/2	2,898.71	1/2	2,538.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,215.10	3/4	4,012.22	3/4	3,786.42	3/4	3,537.62	3/4	3,250.91	3/4	2,891.20	3/4	2,531.09		
4		4		4		4	4,211.09	4	4,007.77	4	3,781.47	4	3,532.17	4	3,243.42	4	2,883.70	4	2,523.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,207.08	1/4	4,003.31	1/4	3,776.53	1/4	3,526.73	1/4	3,235.92	1/4	2,876.20	1/4	2,516.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,203.08	1/2	3,998.85	1/2	3,771.59	1/2	3,521.29	1/2	3,228.43	1/2	2,868.70	1/2	2,508.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,199.03	3/4	3,994.34	3/4	3,766.60	3/4	3,515.80	3/4	3,220.94	3/4	2,861.20	3/4	2,501.05		
5		5		5		5	4,194.99	5	3,989.82	5	3,761.61	5	3,510.32	5	3,213.45	5	2,853.70	5	2,493.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,190.94	1/4	3,985.31	1/4	3,756.62	1/4	3,504.83	1/4	3,205.96	1/4	2,846.20	1/4	2,486.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,186.90	1/2	3,980.80	1/2	3,751.64	1/2	3,499.35	1/2	3,198.47	1/2	2,838.70	1/2	2,478.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,182.81	3/4	3,976.25	3/4	3,746.61	3/4	3,493.83	3/4	3,190.98	3/4	2,831.19	3/4	2,471.01		
6		6		6		6	4,178.72	6	3,971.71	6	3,741.59	6	3,488.31	6	3,183.49	6	2,823.69	6	2,463.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,174.64	1/4	3,967.16	1/4	3,736.57	1/4	3,482.79	1/4	3,176.00	1/4	2,816.19	1/4	2,455.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,402.05	1/2	4,170.55	1/2	3,962.62	1/2	3,731.55	1/2	3,477.27	1/2	3,168.51	1/2	2,808.69	1/2	2,448.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,395.56	3/4	4,166.43	3/4	3,958.04	3/4	3,726.48	3/4	3,471.73	3/4	3,161.01	3/4	2,801.19	3/4	2,440.97
7		7		7		7	4,389.07	7	4,162.31	7	3,953.46	7	3,721.42	7	3,466.19	7	3,153.52	7	2,793.69	7	2,433.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,382.58	1/4	4,158.18	1/4	3,948.88	1/4	3,716.35	1/4	3,460.65	1/4	3,146.03	1/4	2,786.19	1/4	2,425.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,376.09	1/2	4,154.06	1/2	3,944.30	1/2	3,711.28	1/2	3,455.11	1/2	3,138.54	1/2	2,778.69	1/2	2,418.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,370.58	3/4	4,149.90	3/4	3,939.68	3/4	3,706.18	3/4	3,449.57	3/4	3,131.05	3/4	2,771.18	3/4	2,410.92
8		8		8		8	4,365.08	8	4,145.73	8	3,935.06	8	3,701.08	8	3,444.03	8	3,123.56	8	2,763.68	8	2,403.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,359.58	1/4	4,141.56	1/4	3,930.44	1/4	3,695.98	1/4	3,438.50	1/4	3,116.07	1/4	2,756.18	1/4	2,395.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,354.07	1/2	4,137.40	1/2	3,925.82	1/2	3,690.89	1/2	3,432.96	1/2	3,108.58	1/2	2,748.68	1/2	2,388.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,348.57	3/4	4,133.20	3/4	3,921.13	3/4	3,685.74	3/4	3,427.42	3/4	3,101.09	3/4	2,741.18	3/4	2,380.88
9		9		9		9	4,343.07	9	4,129.00	9	3,916.45	9	3,680.60	9	3,421.88	9	3,093.60	9	2,733.68	9	2,373.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,337.56	1/4	4,124.80	1/4	3,911.76	1/4	3,675.46	1/4	3,416.34	1/4	3,086.10	1/4	2,726.18	1/4	2,365.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,332.06	1/2	4,120.60	1/2	3,907.08	1/2	3,670.32	1/2	3,410.80	1/2	3,078.61	1/2	2,718.67	1/2	2,358.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,326.58	3/4	4,116.35	3/4	3,902.35	3/4	3,665.14	3/4	3,405.27	3/4	3,071.12	3/4	2,711.17	3/4	2,350.84
10		10		10		10	4,321.11	10	4,112.11	10	3,897.62	10	3,659.95	10	3,399.75	10	3,063.63	10	2,703.67	10	2,343.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,315.63	1/4	4,107.86	1/4	3,892.89	1/4	3,654.77	1/4	3,394.22	1/4	3,056.14	1/4	2,696.17	1/4	2,335.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,310.16	1/2	4,103.62	1/2	3,888.17	1/2	3,649.58	1/2	3,388.69	1/2	3,048.65	1/2	2,688.67	1/2	2,328.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,304.68	3/4	4,099.34	3/4	3,883.40	3/4	3,644.36	3/4	3,383.16	3/4	3,041.16	3/4	2,681.17	3/4	2,320.79
11		11		11		11	4,299.21	11	4,095.06	11	3,878.64	11	3,639.15	11	3,377.63	11	3,033.67	11	2,673.67	11	2,313.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,293.73	1/4	4,090.79	1/4	3,873.88	1/4	3,633.93	1/4	3,372.11	1/4	3,026.18	1/4	2,666.17	1/4	2,305.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,288.25	1/2	4,086.51	1/2	3,869.12	1/2	3,628.71	1/2	3,366.58	1/2	3,018.69	1/2	2,658.66	1/2	2,298.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,282.78	3/4	4,082.20	3/4	3,864.31	3/4	3,623.41	3/4	3,361.05	3/4	3,011.19	3/4	2,651.16	3/4	2,290.75

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-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 27018"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 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	2,283.24	0	1,922.72	0	1,563.21	0	1,202.97	0	842.61	0	495.08	0	135.64	0		0		0	
1/4	2,275.73	1/4	1,915.21	1/4	1,555.72	1/4	1,195.46	1/4	835.10	1/4	487.85	1/4	128.12	1/4	1/4		1/4		1/4
1/2	2,268.22	1/2	1,907.70	1/2	1,548.23	1/2	1,187.95	1/2	827.59	1/2	480.63	1/2	120.61	1/2	1/2		1/2		1/2
3/4	2,260.71	3/4	1,900.19	3/4	1,540.74	3/4	1,180.45	3/4	820.22	3/4	473.26	3/4	113.10	3/4	3/4		3/4		3/4
1	2,253.20	1	1,892.68	1	1,533.26	1	1,172.94	1	812.85	1	465.90	1	105.58	1	1		1		1
1/4	2,245.68	1/4	1,885.17	1/4	1,525.77	1/4	1,165.43	1/4	805.48	1/4	458.54	1/4	98.07	1/4	1/4		1/4		1/4
1/2	2,238.17	1/2	1,877.66	1/2	1,518.28	1/2	1,157.92	1/2	798.10	1/2	451.18	1/2	90.56	1/2	1/2		1/2		1/2
3/4	2,230.66	3/4	1,870.17	3/4	1,510.78	3/4	1,150.42	3/4	790.87	3/4	443.66	3/4	83.04	3/4	3/4		3/4		3/4
2	2,223.15	2	1,862.68	2	1,503.27	2	1,142.91	2	783.65	2	436.15	2	75.53	2	2		2		2
1/4	2,215.64	1/4	1,855.19	1/4	1,495.76	1/4	1,135.40	1/4	776.42	1/4	428.64	1/4	68.02	1/4	1/4		1/4		1/4
1/2	2,208.13	1/2	1,847.71	1/2	1,488.25	1/2	1,127.89	1/2	769.19	1/2	421.13	1/2	60.51	1/2	1/2		1/2		1/2
3/4	2,200.62	3/4	1,840.22	3/4	1,480.75	3/4	1,120.39	3/4	761.97	3/4	413.61	3/4	53.93	3/4	3/4		3/4		3/4
3	2,193.11	3	1,832.73	3	1,473.24	3	1,112.88	3	754.74	3	406.10	3	47.36	3	3		3		3
1/4	2,185.60	1/4	1,825.25	1/4	1,465.73	1/4	1,105.37	1/4	747.52	1/4	398.59	1/4	40.78	1/4	1/4		1/4		1/4
1/2	2,178.09	1/2	1,817.76	1/2	1,458.22	1/2	1,097.86	1/2	740.30	1/2	391.07	1/2	34.21	1/2	1/2		1/2		1/2
3/4	2,170.58	3/4	1,810.27	3/4	1,450.72	3/4	1,090.36	3/4	733.09	3/4	383.56	3/4	29.51	3/4	3/4		3/4		3/4
4	2,163.07	4	1,802.79	4	1,443.21	4	1,082.85	4	725.88	4	376.05	4	24.82	4	4		4		4
1/4	2,155.55	1/4	1,795.30	1/4	1,435.70	1/4	1,075.34	1/4	718.67	1/4	368.53	1/4	20.12	1/4	1/4		1/4		1/4
1/2	2,148.04	1/2	1,787.81	1/2	1,428.19	1/2	1,067.83	1/2	711.46	1/2	361.02	1/2	15.43	1/2	1/2		1/2		1/2
3/4	2,140.53	3/4	1,780.33	3/4	1,420.69	3/4	1,060.33	3/4	704.24	3/4	353.51	3/4		3/4	3/4		3/4		3/4
5	2,133.02	5	1,772.84	5	1,413.18	5	1,052.82	5	697.03	5	346.00	5		5	5		5		5
1/4	2,125.51	1/4	1,765.35	1/4	1,405.67	1/4	1,045.31	1/4	689.82	1/4	338.48	1/4		1/4	1/4		1/4		1/4
1/2	2,118.00	1/2	1,757.86	1/2	1,398.16	1/2	1,037.80	1/2	682.61	1/2	330.97	1/2		1/2	1/2		1/2		1/2
3/4	2,110.49	3/4	1,750.38	3/4	1,390.66	3/4	1,030.30	3/4	675.40	3/4	323.46	3/4		3/4	3/4		3/4		3/4
6	2,102.98	6	1,742.89	6	1,383.15	6	1,022.79	6	668.19	6	315.94	6		6	6		6		6
1/4	2,095.47	1/4	1,735.40	1/4	1,375.64	1/4	1,015.28	1/4	660.98	1/4	308.43	1/4		1/4	1/4		1/4		1/4
1/2	2,087.96	1/2	1,727.92	1/2	1,368.13	1/2	1,007.77	1/2	653.77	1/2	300.92	1/2		1/2	1/2		1/2		1/2
3/4	2,080.45	3/4	1,720.43	3/4	1,360.63	3/4	1,000.27	3/4	646.56	3/4	293.41	3/4		3/4	3/4		3/4		3/4
7	2,072.94	7	1,712.94	7	1,353.12	7	992.76	7	639.35	7	285.89	7		7	7		7		7
1/4	2,065.43	1/4	1,705.46	1/4	1,345.61	1/4	985.25	1/4	632.14	1/4	278.38	1/4		1/4	1/4		1/4		1/4
1/2	2,057.91	1/2	1,697.97	1/2	1,338.10	1/2	977.74	1/2	624.93	1/2	270.87	1/2		1/2	1/2		1/2		1/2
3/4	2,050.40	3/4	1,690.48	3/4	1,330.60	3/4	970.24	3/4	617.72	3/4	263.35	3/4		3/4	3/4		3/4		3/4
8	2,042.89	8	1,683.00	8	1,323.09	8	962.73	8	610.51	8	255.84	8		8	8		8		8
1/4	2,035.38	1/4	1,675.51	1/4	1,315.58	1/4	955.22	1/4	603.30	1/4	248.33	1/4		1/4	1/4		1/4		1/4
1/2	2,027.87	1/2	1,668.02	1/2	1,308.07	1/2	947.71	1/2	596.09	1/2	240.82	1/2		1/2	1/2		1/2		1/2
3/4	2,020.36	3/4	1,660.54	3/4	1,300.57	3/4	940.21	3/4	588.88	3/4	233.30	3/4		3/4	3/4		3/4		3/4
9	2,012.85	9	1,653.05	9	1,293.06	9	932.70	9	581.67	9	225.79	9		9	9		9		9
1/4	2,005.34	1/4	1,645.56	1/4	1,285.55	1/4	925.19	1/4	574.46	1/4	218.28	1/4		1/4	1/4		1/4		1/4
1/2	1,997.83	1/2	1,638.07	1/2	1,278.04	1/2	917.68	1/2	567.25	1/2	210.76	1/2		1/2	1/2		1/2		1/2
3/4	1,990.32	3/4	1,630.59	3/4	1,270.54	3/4	910.18	3/4	560.03	3/4	203.25	3/4		3/4	3/4		3/4		3/4
10	1,982.81	10	1,623.10	10	1,263.03	10	902.67	10	552.82	10	195.74	10		10	10		10		10
1/4	1,975.30	1/4	1,615.61	1/4	1,255.52	1/4	895.16	1/4	545.61	1/4	188.23	1/4		1/4	1/4		1/4		1/4
1/2	1,967.78	1/2	1,608.13	1/2	1,248.01	1/2	887.65	1/2	538.40	1/2	180.71	1/2		1/2	1/2		1/2		1/2
3/4	1,960.27	3/4	1,600.64	3/4	1,240.51	3/4	880.15	3/4	531.18	3/4	173.20	3/4		3/4	3/4		3/4		3/4
11	1,952.76	11	1,593.15	11	1,233.00	11	872.64	11	523.97	11	165.69	11		11	11		11		11
1/4	1,945.25	1/4	1,585.67	1/4	1,225.49	1/4	865.13	1/4	516.75	1/4	158.17	1/4		1/4	1/4		1/4		1/4
1/2	1,937.74	1/2	1,578.18	1/2	1,217.98	1/2	857.62	1/2	509.53	1/2	150.66	1/2		1/2	1/2		1/2		1/2
3/4	1,930.23	3/4	1,570.69	3/4	1,210.48	3/4	850.12	3/4	502.31	3/4	143.15	3/4		3/4	3/4		3/4		3/4

STRAPPED: 06/13/2014 PMA  
RECALCULATED: 09/26/2019 PMA  
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 27018"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 1/2"

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		1/4		1/4		1/4	4,275.33	1/4	4,074.06	1/4	3,852.43	1/4	3,608.85	1/4	3,345.92	1/4	2,991.86	1/4	2,632.00		
1/2		1/2		1/2		1/2	4,269.79	1/2	4,069.68	1/2	3,847.59	1/2	3,603.55	1/2	3,340.39	1/2	2,984.36	1/2	2,624.50		
3/4		3/4		3/4		3/4	4,265.83	3/4	4,065.26	3/4	3,842.71	3/4	3,598.22	3/4	3,333.86	3/4	2,976.86	3/4	2,617.01		
1	1	1	1	1	1	1	4,261.87	1	4,060.85	1	3,837.84	1	3,592.89	1	3,327.34	1	2,969.37	1	2,609.51		
1/4		1/4		1/4		1/4	4,257.90	1/4	4,056.43	1/4	3,832.96	1/4	3,587.56	1/4	3,320.81	1/4	2,961.87	1/4	2,602.01		
1/2		1/2		1/2		1/2	4,253.94	1/2	4,052.01	1/2	3,828.09	1/2	3,582.23	1/2	3,314.29	1/2	2,954.37	1/2	2,594.52		
3/4		3/4		3/4		3/4	4,249.95	3/4	4,047.56	3/4	3,823.18	3/4	3,576.85	3/4	3,306.79	3/4	2,946.87	3/4	2,587.02		
2	2	2	2	2	2	2	4,245.95	2	4,043.11	2	3,818.27	2	3,571.47	2	3,299.29	2	2,939.38	2	2,579.52		
1/4		1/4		1/4		1/4	4,241.96	1/4	4,038.66	1/4	3,813.36	1/4	3,566.09	1/4	3,291.79	1/4	2,931.88	1/4	2,572.02		
1/2		1/2		1/2		1/2	4,237.96	1/2	4,034.21	1/2	3,808.46	1/2	3,560.72	1/2	3,284.29	1/2	2,924.38	1/2	2,564.53		
3/4		3/4		3/4		3/4	4,233.92	3/4	4,029.71	3/4	3,803.50	3/4	3,555.31	3/4	3,276.79	3/4	2,916.89	3/4	2,557.03		
3	3	3	3	3	3	3	4,229.88	3	4,025.21	3	3,798.55	3	3,549.90	3	3,269.29	3	2,909.39	3	2,549.53		
1/4		1/4		1/4		1/4	4,225.84	1/4	4,020.72	1/4	3,793.60	1/4	3,544.49	1/4	3,261.79	1/4	2,901.89	1/4	2,542.04		
1/2		1/2		1/2		1/2	4,221.79	1/2	4,016.22	1/2	3,788.65	1/2	3,539.08	1/2	3,254.29	1/2	2,894.40	1/2	2,534.54		
3/4		3/4		3/4		3/4	4,217.72	3/4	4,011.69	3/4	3,783.66	3/4	3,533.64	3/4	3,246.79	3/4	2,886.90	3/4	2,527.06		
4	4	4	4	4	4	4	4,213.65	4	4,007.16	4	3,778.68	4	3,528.20	4	3,239.29	4	2,879.40	4	2,519.57		
1/4		1/4		1/4		1/4	4,209.58	1/4	4,002.63	1/4	3,773.69	1/4	3,522.76	1/4	3,231.79	1/4	2,871.90	1/4	2,512.09		
1/2		1/2		1/2		1/2	4,205.50	1/2	3,998.11	1/2	3,768.71	1/2	3,517.31	1/2	3,224.29	1/2	2,864.41	1/2	2,504.61		
3/4		3/4		3/4		3/4	4,201.40	3/4	3,993.53	3/4	3,763.68	3/4	3,511.83	3/4	3,216.79	3/4	2,856.91	3/4	2,497.12		
5	5	5	5	5	5	5	4,197.29	5	3,988.95	5	3,758.65	5	3,506.34	5	3,209.29	5	2,849.41	5	2,489.64		
1/4		1/4		1/4		1/4	4,193.18	1/4	3,984.38	1/4	3,753.62	1/4	3,500.86	1/4	3,201.79	1/4	2,841.92	1/4	2,482.16		
1/2		1/2		1/2		1/2	4,189.08	1/2	3,979.80	1/2	3,748.59	1/2	3,495.37	1/2	3,194.29	1/2	2,834.42	1/2	2,474.67		
3/4		3/4		3/4		3/4	4,184.93	3/4	3,975.19	3/4	3,743.52	3/4	3,489.85	3/4	3,186.79	3/4	2,826.92	3/4	2,467.19		
6	6	6	6	6	6	6	4,180.78	6	3,970.59	6	3,738.46	6	3,484.33	6	3,179.29	6	2,819.43	6	2,459.71		
1/4		1/4		1/4		1/4	4,176.63	1/4	3,965.98	1/4	3,733.40	1/4	3,478.81	1/4	3,171.79	1/4	2,811.93	1/4	2,452.22		
1/2		1/2		1/2	4,406.64	1/2	4,172.48	1/2	3,961.37	1/2	3,728.33	1/2	3,473.29	1/2	3,164.29	1/2	2,804.43	1/2	2,444.74		
3/4		3/4		3/4	4,400.12	3/4	4,168.29	3/4	3,956.73	3/4	3,723.22	3/4	3,467.75	3/4	3,156.79	3/4	2,796.93	3/4	2,437.26		
7	7	7	7	7	7	7	4,393.59	7	4,164.11	7	3,952.09	7	3,718.11	7	3,462.22	7	3,149.29	7	2,789.44	7	2,429.77
1/4		1/4		1/4		1/4	4,387.07	1/4	4,159.92	1/4	3,947.45	1/4	3,713.00	1/4	3,456.68	1/4	3,141.80	1/4	2,781.94	1/4	2,422.29
1/2		1/2		1/2	4,380.54	1/2	4,155.74	1/2	3,942.81	1/2	3,707.89	1/2	3,451.14	1/2	3,134.30	1/2	2,774.44	1/2	2,414.81		
3/4		3/4		3/4	4,375.00	3/4	4,151.51	3/4	3,938.12	3/4	3,702.75	3/4	3,445.60	3/4	3,126.80	3/4	2,766.95	3/4	2,407.32		
8	8	8	8	8	8	8	4,369.47	8	4,147.28	8	3,933.44	8	3,697.61	8	3,440.07	8	3,119.31	8	2,759.45	8	2,399.84
1/4		1/4		1/4		1/4	4,363.93	1/4	4,143.05	1/4	3,928.76	1/4	3,692.47	1/4	3,434.53	1/4	3,111.81	1/4	2,751.95	1/4	2,392.36
1/2		1/2		1/2	4,358.39	1/2	4,138.82	1/2	3,924.07	1/2	3,687.33	1/2	3,428.99	1/2	3,104.31	1/2	2,744.46	1/2	2,384.87		
3/4		3/4		3/4	4,352.85	3/4	4,134.56	3/4	3,919.35	3/4	3,682.15	3/4	3,423.45	3/4	3,096.81	3/4	2,736.96	3/4	2,377.39		
9	9	9	9	9	9	9	4,347.32	9	4,130.30	9	3,914.63	9	3,676.98	9	3,417.91	9	3,089.32	9	2,729.46	9	2,369.91
1/4		1/4		1/4		1/4	4,341.78	1/4	4,126.04	1/4	3,909.92	1/4	3,671.80	1/4	3,412.38	1/4	3,081.82	1/4	2,721.96	1/4	2,362.42
1/2		1/2		1/2	4,336.24	1/2	4,121.77	1/2	3,905.20	1/2	3,666.62	1/2	3,406.84	1/2	3,074.32	1/2	2,714.47	1/2	2,354.94		
3/4		3/4		3/4	4,330.70	3/4	4,117.46	3/4	3,900.43	3/4	3,661.41	3/4	3,401.30	3/4	3,066.83	3/4	2,706.97	3/4	2,347.46		
10	10	10	10	10	10	10	4,325.17	10	4,113.16	10	3,895.67	10	3,656.19	10	3,395.76	10	3,059.33	10	2,699.47	10	2,339.97
1/4		1/4		1/4		1/4	4,319.63	1/4	4,108.85	1/4	3,890.91	1/4	3,650.97	1/4	3,390.23	1/4	3,051.83	1/4	2,691.98	1/4	2,332.49
1/2		1/2		1/2	4,314.09	1/2	4,104.54	1/2	3,886.14	1/2	3,645.75	1/2	3,384.69	1/2	3,044.34	1/2	2,684.48	1/2	2,325.01		
3/4		3/4		3/4	4,308.55	3/4	4,100.20	3/4	3,881.35	3/4	3,640.50	3/4	3,379.15	3/4	3,036.84	3/4	2,676.98	3/4	2,317.52		
11	11	11	11	11	11	11	4,303.01	11	4,095.86	11	3,876.55	11	3,635.24	11	3,373.61	11	3,029.34	11	2,669.49	11	2,310.04
1/4		1/4		1/4		1/4	4,297.48	1/4	4,091.52	1/4	3,871.76	1/4	3,629.99	1/4	3,368.08	1/4	3,021.84	1/4	2,661.99	1/4	2,302.56
1/2		1/2		1/2	4,291.94	1/2	4,087.18	1/2	3,866.96	1/2	3,624.74	1/2	3,362.54	1/2	3,014.35	1/2	2,654.49	1/2	2,295.07		
3/4		3/4		3/4	4,286.40	3/4	4,082.80	3/4	3,862.12	3/4	3,619.44	3/4	3,357.00	3/4	3,006.85	3/4	2,646.99	3/4	2,287.57		

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-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 27018"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 357"

GAUGE HEIGHT 16'-04 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	2,280.07	0	1,920.07	0	1,561.78	0	1,202.80	0	842.80	0	494.45	0	135.47	0		0		0	
1/4	2,272.57	1/4	1,912.57	1/4	1,554.33	1/4	1,195.30	1/4	835.30	1/4	487.20	1/4	127.97	1/4	1/4		1/4		1/4
1/2	2,265.07	1/2	1,905.07	1/2	1,546.89	1/2	1,187.80	1/2	827.80	1/2	479.95	1/2	120.47	1/2	1/2		1/2		1/2
3/4	2,257.57	3/4	1,897.57	3/4	1,539.45	3/4	1,180.30	3/4	820.43	3/4	472.58	3/4	112.97	3/4	3/4		3/4		3/4
1	2,250.07	1	1,890.07	1	1,532.01	1	1,172.80	1	813.05	1	465.20	1	105.47	1	1		1		1
1/4	2,242.57	1/4	1,882.57	1/4	1,524.56	1/4	1,165.30	1/4	805.68	1/4	457.83	1/4	97.97	1/4	1/4		1/4		1/4
1/2	2,235.07	1/2	1,875.07	1/2	1,517.12	1/2	1,157.80	1/2	798.31	1/2	450.46	1/2	90.47	1/2	1/2		1/2		1/2
3/4	2,227.57	3/4	1,867.57	3/4	1,509.68	3/4	1,150.30	3/4	791.07	3/4	442.96	3/4	82.97	3/4	3/4		3/4		3/4
2	2,220.07	2	1,860.07	2	1,502.23	2	1,142.80	2	783.83	2	435.46	2	75.47	2	2		2		2
1/4	2,212.57	1/4	1,852.57	1/4	1,494.79	1/4	1,135.30	1/4	776.59	1/4	427.96	1/4	67.97	1/4	1/4		1/4		1/4
1/2	2,205.07	1/2	1,845.07	1/2	1,487.35	1/2	1,127.80	1/2	769.35	1/2	420.46	1/2	60.47	1/2	1/2		1/2		1/2
3/4	2,197.57	3/4	1,837.57	3/4	1,479.90	3/4	1,120.30	3/4	762.11	3/4	412.96	3/4	53.97	3/4	3/4		3/4		3/4
3	2,190.07	3	1,830.07	3	1,472.46	3	1,112.80	3	754.88	3	405.46	3	47.34	3	3		3		3
1/4	2,182.57	1/4	1,822.57	1/4	1,465.02	1/4	1,105.30	1/4	747.65	1/4	397.96	1/4	40.78	1/4	1/4		1/4		1/4
1/2	2,175.07	1/2	1,815.07	1/2	1,457.58	1/2	1,097.80	1/2	740.41	1/2	390.46	1/2	34.22	1/2	1/2		1/2		1/2
3/4	2,167.57	3/4	1,807.57	3/4	1,450.13	3/4	1,090.30	3/4	733.18	3/4	382.96	3/4	29.52	3/4	3/4		3/4		3/4
4	2,160.07	4	1,800.07	4	1,442.69	4	1,082.80	4	725.95	4	375.46	4	24.83	4	4		4		4
1/4	2,152.57	1/4	1,792.57	1/4	1,435.25	1/4	1,075.30	1/4	718.72	1/4	367.96	1/4	20.13	1/4	1/4		1/4		1/4
1/2	2,145.07	1/2	1,785.07	1/2	1,427.80	1/2	1,067.80	1/2	711.48	1/2	360.46	1/2	15.44	1/2	1/2		1/2		1/2
3/4	2,137.57	3/4	1,777.62	3/4	1,420.30	3/4	1,060.30	3/4	704.25	3/4	352.96	3/4		3/4	3/4		3/4		3/4
5	2,130.07	5	1,770.18	5	1,412.80	5	1,052.80	5	697.02	5	345.46	5		5	5		5		5
1/4	2,122.57	1/4	1,762.74	1/4	1,405.30	1/4	1,045.30	1/4	689.78	1/4	337.96	1/4		1/4	1/4		1/4		1/4
1/2	2,115.07	1/2	1,755.30	1/2	1,397.80	1/2	1,037.80	1/2	682.55	1/2	330.46	1/2		1/2	1/2		1/2		1/2
3/4	2,107.57	3/4	1,747.85	3/4	1,390.30	3/4	1,030.30	3/4	675.32	3/4	322.96	3/4		3/4	3/4		3/4		3/4
6	2,100.07	6	1,740.41	6	1,382.80	6	1,022.80	6	668.09	6	315.46	6		6	6		6		6
1/4	2,092.57	1/4	1,732.97	1/4	1,375.30	1/4	1,015.30	1/4	660.85	1/4	307.96	1/4		1/4	1/4		1/4		1/4
1/2	2,085.07	1/2	1,725.52	1/2	1,367.80	1/2	1,007.80	1/2	653.62	1/2	300.46	1/2		1/2	1/2		1/2		1/2
3/4	2,077.57	3/4	1,718.08	3/4	1,360.30	3/4	1,000.30	3/4	646.39	3/4	292.96	3/4		3/4	3/4		3/4		3/4
7	2,070.07	7	1,710.64	7	1,352.80	7	992.80	7	639.16	7	285.46	7		7	7		7		7
1/4	2,062.57	1/4	1,703.19	1/4	1,345.30	1/4	985.30	1/4	631.93	1/4	277.96	1/4		1/4	1/4		1/4		1/4
1/2	2,055.07	1/2	1,695.75	1/2	1,337.80	1/2	977.80	1/2	624.69	1/2	270.46	1/2		1/2	1/2		1/2		1/2
3/4	2,047.57	3/4	1,688.31	3/4	1,330.30	3/4	970.30	3/4	617.46	3/4	262.96	3/4		3/4	3/4		3/4		3/4
8	2,040.07	8	1,680.87	8	1,322.80	8	962.80	8	610.23	8	255.46	8		8	8		8		8
1/4	2,032.57	1/4	1,673.42	1/4	1,315.30	1/4	955.30	1/4	603.00	1/4	247.96	1/4		1/4	1/4		1/4		1/4
1/2	2,025.07	1/2	1,665.98	1/2	1,307.80	1/2	947.80	1/2	595.77	1/2	240.46	1/2		1/2	1/2		1/2		1/2
3/4	2,017.57	3/4	1,658.54	3/4	1,300.30	3/4	940.30	3/4	588.53	3/4	232.96	3/4		3/4	3/4		3/4		3/4
9	2,010.07	9	1,651.09	9	1,292.80	9	932.80	9	581.30	9	225.46	9		9	9		9		9
1/4	2,002.57	1/4	1,643.65	1/4	1,285.30	1/4	925.30	1/4	574.07	1/4	217.96	1/4		1/4	1/4		1/4		1/4
1/2	1,995.07	1/2	1,636.21	1/2	1,277.80	1/2	917.80	1/2	566.83	1/2	210.46	1/2		1/2	1/2		1/2		1/2
3/4	1,987.57	3/4	1,628.76	3/4	1,270.30	3/4	910.30	3/4	559.60	3/4	202.96	3/4		3/4	3/4		3/4		3/4
10	1,980.07	10	1,621.32	10	1,262.80	10	902.80	10	552.37	10	195.46	10		10	10		10		10
1/4	1,972.57	1/4	1,613.88	1/4	1,255.30	1/4	895.30	1/4	545.14	1/4	187.97	1/4		1/4	1/4		1/4		1/4
1/2	1,965.07	1/2	1,606.44	1/2	1,247.80	1/2	887.80	1/2	537.90	1/2	180.47	1/2		1/2	1/2		1/2		1/2
3/4	1,957.57	3/4	1,598.99	3/4	1,240.30	3/4	880.30	3/4	530.66	3/4	172.97	3/4		3/4	3/4		3/4		3/4
11	1,950.07	11	1,591.55	11	1,232.80	11	872.80	11	523.42	11	165.47	11		11	11		11		11
1/4	1,942.57	1/4	1,584.11	1/4	1,225.30	1/4	865.30	1/4	516.18	1/4	157.97	1/4		1/4	1/4		1/4		1/4
1/2	1,935.07	1/2	1,576.66	1/2	1,217.80	1/2	857.80	1/2	508.95	1/2	150.47	1/2		1/2	1/2		1/2		1/2
3/4	1,927.57	3/4	1,569.22	3/4	1,210.30	3/4	850.30	3/4	501.70	3/4	142.97	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/13/2014 PMA  
RECALCULATED: 09/26/2019 PMA  
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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