



# BARGE "HFL 230SS"

## ULLAGE TRIM TABLE

|          | 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 CENTER | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-3/8   | 00-3/8       |
| 2 CENTER | 00-1/8     | - 00-1/8     | 00-3/8     | - 00-3/8     | 00-1/2     | - 00-1/2     | 00-5/8     | - 00-5/8     | 00-7/8     | - 00-7/8     | 01-0/8     | - 01-0/8     |
| 3 CENTER | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/2     | - 00-1/2     | 00-5/8     | - 00-5/8     | 00-3/4     | - 00-3/4     | 00-7/8     | - 00-7/8     |

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

LENGTH BETWEEN DRAFT MARKS: 162'-06"

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

<http://www.pmacorp.net>



# BARGE "HFL 230SS"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 1/2"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.    | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   | 3,631.44 | 0   | 3,411.48 | 0   | 3,191.52 | 0   | 2,940.41 | 0   | 2,667.56 | 0   | 2,394.88 | 0   | 2,122.39 | 0   | 1,850.05 |
| 1/4 |       | 1/4 |       | 1/4 | 3,626.86 | 1/4 | 3,406.90 | 1/4 | 3,186.94 | 1/4 | 2,934.72 | 1/4 | 2,661.88 | 1/4 | 2,389.20 | 1/4 | 2,116.72 | 1/4 | 1,844.38 |
| 1/2 |       | 1/2 |       | 1/2 | 3,622.28 | 1/2 | 3,402.32 | 1/2 | 3,182.36 | 1/2 | 2,929.02 | 1/2 | 2,656.20 | 1/2 | 2,383.52 | 1/2 | 2,111.05 | 1/2 | 1,838.70 |
| 3/4 |       | 3/4 |       | 3/4 | 3,617.70 | 3/4 | 3,397.74 | 3/4 | 3,177.78 | 3/4 | 2,923.33 | 3/4 | 2,650.52 | 3/4 | 2,377.84 | 3/4 | 2,105.38 | 3/4 | 1,833.02 |
| 1   |       | 1   |       | 1   | 3,613.11 | 1   | 3,393.15 | 1   | 3,173.19 | 1   | 2,917.63 | 1   | 2,644.84 | 1   | 2,372.16 | 1   | 2,099.71 | 1   | 1,827.35 |
| 1/4 |       | 1/4 |       | 1/4 | 3,608.53 | 1/4 | 3,388.57 | 1/4 | 3,168.61 | 1/4 | 2,911.94 | 1/4 | 2,639.16 | 1/4 | 2,366.48 | 1/4 | 2,094.03 | 1/4 | 1,821.67 |
| 1/2 |       | 1/2 |       | 1/2 | 3,603.95 | 1/2 | 3,383.99 | 1/2 | 3,164.03 | 1/2 | 2,906.24 | 1/2 | 2,633.48 | 1/2 | 2,360.80 | 1/2 | 2,088.36 | 1/2 | 1,815.99 |
| 3/4 |       | 3/4 |       | 3/4 | 3,599.37 | 3/4 | 3,379.41 | 3/4 | 3,159.45 | 3/4 | 2,900.55 | 3/4 | 2,627.80 | 3/4 | 2,355.12 | 3/4 | 2,082.69 | 3/4 | 1,810.31 |
| 2   |       | 2   |       | 2   | 3,594.78 | 2   | 3,374.82 | 2   | 3,154.86 | 2   | 2,894.85 | 2   | 2,622.12 | 2   | 2,349.44 | 2   | 2,077.02 | 2   | 1,804.64 |
| 1/4 |       | 1/4 |       | 1/4 | 3,590.20 | 1/4 | 3,370.24 | 1/4 | 3,150.28 | 1/4 | 2,889.16 | 1/4 | 2,616.44 | 1/4 | 2,343.76 | 1/4 | 2,071.35 | 1/4 | 1,798.96 |
| 1/2 |       | 1/2 |       | 1/2 | 3,585.62 | 1/2 | 3,365.66 | 1/2 | 3,145.70 | 1/2 | 2,883.46 | 1/2 | 2,610.75 | 1/2 | 2,338.08 | 1/2 | 2,065.68 | 1/2 | 1,793.28 |
| 3/4 |       | 3/4 |       | 3/4 | 3,581.04 | 3/4 | 3,361.08 | 3/4 | 3,141.12 | 3/4 | 2,877.77 | 3/4 | 2,605.07 | 3/4 | 2,332.41 | 3/4 | 2,060.00 | 3/4 | 1,787.61 |
| 3   |       | 3   |       | 3   | 3,770.87 | 3   | 3,576.45 | 3   | 3,356.49 | 3   | 3,136.53 | 3   | 2,872.09 | 3   | 2,599.39 | 3   | 2,326.73 | 3   | 2,054.33 |
| 1/4 |       | 1/4 |       | 1/4 | 3,769.92 | 1/4 | 3,571.87 | 1/4 | 3,351.91 | 1/4 | 3,131.95 | 1/4 | 2,866.40 | 1/4 | 2,593.71 | 1/4 | 2,321.05 | 1/4 | 2,048.66 |
| 1/2 |       | 1/2 |       | 1/2 | 3,768.97 | 1/2 | 3,567.29 | 1/2 | 3,347.33 | 1/2 | 3,127.37 | 1/2 | 2,860.71 | 1/2 | 2,588.03 | 1/2 | 2,315.37 | 1/2 | 2,042.99 |
| 3/4 |       | 3/4 |       | 3/4 | 3,767.07 | 3/4 | 3,562.71 | 3/4 | 3,342.75 | 3/4 | 3,122.79 | 3/4 | 2,855.03 | 3/4 | 2,582.35 | 3/4 | 2,309.70 | 3/4 | 2,037.32 |
| 4   |       | 4   |       | 4   | 3,765.18 | 4   | 3,558.12 | 4   | 3,338.16 | 4   | 3,118.20 | 4   | 2,849.35 | 4   | 2,576.67 | 4   | 2,304.02 | 4   | 2,031.64 |
| 1/4 |       | 1/4 |       | 1/4 | 3,763.28 | 1/4 | 3,553.54 | 1/4 | 3,333.58 | 1/4 | 3,113.62 | 1/4 | 2,843.67 | 1/4 | 2,570.99 | 1/4 | 2,298.34 | 1/4 | 2,025.97 |
| 1/2 |       | 1/2 |       | 1/2 | 3,761.38 | 1/2 | 3,548.96 | 1/2 | 3,329.00 | 1/2 | 3,109.04 | 1/2 | 2,837.99 | 1/2 | 2,565.31 | 1/2 | 2,292.67 | 1/2 | 2,020.30 |
| 3/4 |       | 3/4 |       | 3/4 | 3,758.14 | 3/4 | 3,544.38 | 3/4 | 3,324.42 | 3/4 | 3,103.90 | 3/4 | 2,832.31 | 3/4 | 2,559.63 | 3/4 | 2,286.99 | 3/4 | 2,014.63 |
| 5   |       | 5   |       | 5   | 3,754.90 | 5   | 3,539.79 | 5   | 3,319.83 | 5   | 3,098.76 | 5   | 2,826.63 | 5   | 2,553.95 | 5   | 2,281.31 | 5   | 2,008.96 |
| 1/4 |       | 1/4 |       | 1/4 | 3,751.66 | 1/4 | 3,535.21 | 1/4 | 3,315.25 | 1/4 | 3,093.62 | 1/4 | 2,820.94 | 1/4 | 2,548.27 | 1/4 | 2,275.63 | 1/4 | 2,003.28 |
| 1/2 |       | 1/2 |       | 1/2 | 3,748.42 | 1/2 | 3,530.63 | 1/2 | 3,310.67 | 1/2 | 3,088.48 | 1/2 | 2,815.26 | 1/2 | 2,542.58 | 1/2 | 2,269.96 | 1/2 | 1,997.61 |
| 3/4 |       | 3/4 |       | 3/4 | 3,744.34 | 3/4 | 3,526.05 | 3/4 | 3,306.09 | 3/4 | 3,082.79 | 3/4 | 2,809.58 | 3/4 | 2,536.90 | 3/4 | 2,264.28 | 3/4 | 1,991.94 |
| 6   |       | 6   |       | 6   | 3,740.26 | 6   | 3,521.46 | 6   | 3,301.50 | 6   | 3,077.09 | 6   | 2,803.90 | 6   | 2,531.22 | 6   | 2,258.60 | 6   | 1,986.27 |
| 1/4 |       | 1/4 |       | 1/4 | 3,736.18 | 1/4 | 3,516.88 | 1/4 | 3,296.92 | 1/4 | 3,071.40 | 1/4 | 2,798.22 | 1/4 | 2,525.54 | 1/4 | 2,252.92 | 1/4 | 1,980.60 |
| 1/2 |       | 1/2 |       | 1/2 | 3,732.09 | 1/2 | 3,512.30 | 1/2 | 3,292.34 | 1/2 | 3,065.70 | 1/2 | 2,792.54 | 1/2 | 2,519.86 | 1/2 | 2,247.25 | 1/2 | 1,974.93 |
| 3/4 |       | 3/4 |       | 3/4 | 3,727.54 | 3/4 | 3,507.72 | 3/4 | 3,287.76 | 3/4 | 3,060.01 | 3/4 | 2,786.86 | 3/4 | 2,514.18 | 3/4 | 2,241.57 | 3/4 | 1,969.25 |
| 7   |       | 7   |       | 7   | 3,722.99 | 7   | 3,503.13 | 7   | 3,283.17 | 7   | 3,054.31 | 7   | 2,781.18 | 7   | 2,508.50 | 7   | 2,235.89 | 7   | 1,963.58 |
| 1/4 |       | 1/4 |       | 1/4 | 3,718.44 | 1/4 | 3,498.55 | 1/4 | 3,278.59 | 1/4 | 3,048.62 | 1/4 | 2,775.50 | 1/4 | 2,502.82 | 1/4 | 2,230.22 | 1/4 | 1,957.91 |
| 1/2 |       | 1/2 |       | 1/2 | 3,713.89 | 1/2 | 3,493.97 | 1/2 | 3,274.01 | 1/2 | 3,042.92 | 1/2 | 2,769.82 | 1/2 | 2,497.14 | 1/2 | 2,224.54 | 1/2 | 1,952.24 |
| 3/4 |       | 3/4 |       | 3/4 | 3,709.32 | 3/4 | 3,489.39 | 3/4 | 3,269.43 | 3/4 | 3,037.23 | 3/4 | 2,764.14 | 3/4 | 2,491.46 | 3/4 | 2,218.86 | 3/4 | 1,946.56 |
| 8   |       | 8   |       | 8   | 3,704.74 | 8   | 3,484.80 | 8   | 3,264.84 | 8   | 3,031.53 | 8   | 2,758.46 | 8   | 2,485.78 | 8   | 2,213.18 | 8   | 1,940.89 |
| 1/4 |       | 1/4 |       | 1/4 | 3,700.17 | 1/4 | 3,480.22 | 1/4 | 3,260.26 | 1/4 | 3,025.84 | 1/4 | 2,752.77 | 1/4 | 2,480.10 | 1/4 | 2,207.50 | 1/4 | 1,935.21 |
| 1/2 |       | 1/2 |       | 1/2 | 3,695.59 | 1/2 | 3,475.64 | 1/2 | 3,255.68 | 1/2 | 3,020.14 | 1/2 | 2,747.09 | 1/2 | 2,474.42 | 1/2 | 2,201.82 | 1/2 | 1,929.53 |
| 3/4 |       | 3/4 |       | 3/4 | 3,691.01 | 3/4 | 3,471.06 | 3/4 | 3,251.10 | 3/4 | 3,014.45 | 3/4 | 2,741.41 | 3/4 | 2,468.73 | 3/4 | 2,196.14 | 3/4 | 1,923.86 |
| 9   |       | 9   |       | 9   | 3,686.43 | 9   | 3,466.47 | 9   | 3,246.51 | 9   | 3,008.75 | 9   | 2,735.73 | 9   | 2,463.05 | 9   | 2,190.47 | 9   | 1,918.18 |
| 1/4 |       | 1/4 |       | 1/4 | 3,681.85 | 1/4 | 3,461.89 | 1/4 | 3,241.93 | 1/4 | 3,003.06 | 1/4 | 2,730.05 | 1/4 | 2,457.37 | 1/4 | 2,184.79 | 1/4 | 1,912.50 |
| 1/2 |       | 1/2 |       | 1/2 | 3,677.27 | 1/2 | 3,457.31 | 1/2 | 3,237.35 | 1/2 | 2,997.36 | 1/2 | 2,724.37 | 1/2 | 2,451.69 | 1/2 | 2,179.11 | 1/2 | 1,906.82 |
| 3/4 |       | 3/4 |       | 3/4 | 3,672.69 | 3/4 | 3,452.73 | 3/4 | 3,232.77 | 3/4 | 2,991.67 | 3/4 | 2,718.69 | 3/4 | 2,446.01 | 3/4 | 2,173.44 | 3/4 | 1,901.15 |
| 10  |       | 10  |       | 10  | 3,668.10 | 10  | 3,448.14 | 10  | 3,228.18 | 10  | 2,985.97 | 10  | 2,713.01 | 10  | 2,440.33 | 10  | 2,167.77 | 10  | 1,895.47 |
| 1/4 |       | 1/4 |       | 1/4 | 3,663.52 | 1/4 | 3,443.56 | 1/4 | 3,223.60 | 1/4 | 2,980.28 | 1/4 | 2,707.33 | 1/4 | 2,434.65 | 1/4 | 2,162.10 | 1/4 | 1,889.79 |
| 1/2 |       | 1/2 |       | 1/2 | 3,658.94 | 1/2 | 3,438.98 | 1/2 | 3,219.02 | 1/2 | 2,974.58 | 1/2 | 2,701.65 | 1/2 | 2,428.97 | 1/2 | 2,156.43 | 1/2 | 1,884.12 |
| 3/4 |       | 3/4 |       | 3/4 | 3,654.36 | 3/4 | 3,434.40 | 3/4 | 3,214.44 | 3/4 | 2,968.89 | 3/4 | 2,695.97 | 3/4 | 2,423.29 | 3/4 | 2,150.75 | 3/4 | 1,878.44 |
| 11  |       | 11  |       | 11  | 3,649.77 | 11  | 3,429.81 | 11  | 3,209.85 | 11  | 2,963.19 | 11  | 2,690.29 | 11  | 2,417.61 | 11  | 2,145.08 | 11  | 1,872.76 |
| 1/4 |       | 1/4 |       | 1/4 | 3,645.19 | 1/4 | 3,425.23 | 1/4 | 3,205.27 | 1/4 | 2,957.50 | 1/4 | 2,684.60 | 1/4 | 2,411.93 | 1/4 | 2,139.41 | 1/4 | 1,867.09 |
| 1/2 |       | 1/2 |       | 1/2 | 3,640.61 | 1/2 | 3,420.65 | 1/2 | 3,200.69 | 1/2 | 2,951.80 | 1/2 | 2,678.92 | 1/2 | 2,406.25 | 1/2 | 2,133.74 | 1/2 | 1,861.41 |
| 3/4 |       | 3/4 |       | 3/4 | 3,636.03 | 3/4 | 3,416.07 | 3/4 | 3,196.11 | 3/4 | 2,946.11 | 3/4 | 2,673.24 | 3/4 | 2,400.56 | 3/4 | 2,128.07 | 3/4 | 1,855.73 |

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 OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 230SS"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 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   | 1,577.55 | 0   | 1,305.05 | 0   | 1,032.55 | 0   | 763.58 | 0   | 494.80 | 0   | 221.46 | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 1,571.88 | 1/4 | 1,299.38 | 1/4 | 1,026.87 | 1/4 | 758.10 | 1/4 | 489.11 | 1/4 | 215.77 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,566.20 | 1/2 | 1,293.70 | 1/2 | 1,021.20 | 1/2 | 752.62 | 1/2 | 483.41 | 1/2 | 210.07 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,560.52 | 3/4 | 1,288.02 | 3/4 | 1,015.52 | 3/4 | 747.14 | 3/4 | 477.72 | 3/4 | 204.38 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 1,554.84 | 1   | 1,282.34 | 1   | 1,009.84 | 1   | 741.66 | 1   | 472.02 | 1   | 198.68 | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 1,549.17 | 1/4 | 1,276.67 | 1/4 | 1,004.17 | 1/4 | 736.19 | 1/4 | 466.33 | 1/4 | 192.99 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,543.49 | 1/2 | 1,270.99 | 1/2 | 998.49   | 1/2 | 730.71 | 1/2 | 460.63 | 1/2 | 187.29 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,537.81 | 3/4 | 1,265.31 | 3/4 | 992.81   | 3/4 | 725.23 | 3/4 | 454.94 | 3/4 | 181.60 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 1,532.14 | 2   | 1,259.64 | 2   | 987.13   | 2   | 719.75 | 2   | 449.24 | 2   | 175.90 | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 1,526.46 | 1/4 | 1,253.96 | 1/4 | 981.46   | 1/4 | 714.27 | 1/4 | 443.55 | 1/4 | 170.21 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,520.78 | 1/2 | 1,248.28 | 1/2 | 975.78   | 1/2 | 708.79 | 1/2 | 437.85 | 1/2 | 164.51 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,515.11 | 3/4 | 1,242.60 | 3/4 | 970.10   | 3/4 | 703.31 | 3/4 | 432.16 | 3/4 | 158.82 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 1,509.43 | 3   | 1,236.93 | 3   | 964.43   | 3   | 697.83 | 3   | 426.47 | 3   | 153.12 | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 1,503.75 | 1/4 | 1,231.25 | 1/4 | 958.75   | 1/4 | 692.35 | 1/4 | 420.77 | 1/4 | 147.43 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,498.07 | 1/2 | 1,225.57 | 1/2 | 953.07   | 1/2 | 686.87 | 1/2 | 415.08 | 1/2 | 141.74 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,492.40 | 3/4 | 1,219.90 | 3/4 | 947.40   | 3/4 | 681.38 | 3/4 | 409.38 | 3/4 | 136.04 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 1,486.72 | 4   | 1,214.22 | 4   | 941.72   | 4   | 675.88 | 4   | 403.69 | 4   | 130.35 | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 1,481.04 | 1/4 | 1,208.54 | 1/4 | 936.04   | 1/4 | 670.38 | 1/4 | 397.99 | 1/4 | 124.65 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,475.37 | 1/2 | 1,202.86 | 1/2 | 930.36   | 1/2 | 664.88 | 1/2 | 392.30 | 1/2 | 118.96 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,469.69 | 3/4 | 1,197.19 | 3/4 | 924.69   | 3/4 | 659.29 | 3/4 | 386.60 | 3/4 | 113.26 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 1,464.01 | 5   | 1,191.51 | 5   | 919.01   | 5   | 653.70 | 5   | 380.91 | 5   | 107.57 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 1,458.33 | 1/4 | 1,185.83 | 1/4 | 913.33   | 1/4 | 648.11 | 1/4 | 375.21 | 1/4 | 101.88 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,452.66 | 1/2 | 1,180.16 | 1/2 | 907.66   | 1/2 | 642.52 | 1/2 | 369.52 | 1/2 | 96.18  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,446.98 | 3/4 | 1,174.48 | 3/4 | 901.98   | 3/4 | 636.86 | 3/4 | 363.82 | 3/4 | 90.50  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 1,441.30 | 6   | 1,168.80 | 6   | 896.30   | 6   | 631.19 | 6   | 358.13 | 6   | 84.81  | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 1,435.63 | 1/4 | 1,163.12 | 1/4 | 890.62   | 1/4 | 625.53 | 1/4 | 352.44 | 1/4 | 79.12  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,429.95 | 1/2 | 1,157.45 | 1/2 | 884.95   | 1/2 | 619.86 | 1/2 | 346.74 | 1/2 | 73.44  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,424.27 | 3/4 | 1,151.77 | 3/4 | 879.34   | 3/4 | 614.19 | 3/4 | 341.05 | 3/4 | 67.77  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 1,418.59 | 7   | 1,146.09 | 7   | 873.74   | 7   | 608.51 | 7   | 335.35 | 7   | 62.11  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 1,412.92 | 1/4 | 1,140.42 | 1/4 | 868.13   | 1/4 | 602.84 | 1/4 | 329.66 | 1/4 | 56.45  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,407.24 | 1/2 | 1,134.74 | 1/2 | 862.53   | 1/2 | 597.17 | 1/2 | 323.96 | 1/2 | 50.78  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,401.56 | 3/4 | 1,129.06 | 3/4 | 857.01   | 3/4 | 591.48 | 3/4 | 318.27 | 3/4 | 45.59  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 1,395.89 | 8   | 1,123.39 | 8   | 851.50   | 8   | 585.80 | 8   | 312.57 | 8   | 40.40  | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 1,390.21 | 1/4 | 1,117.71 | 1/4 | 845.98   | 1/4 | 580.12 | 1/4 | 306.88 | 1/4 | 35.20  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,384.53 | 1/2 | 1,112.03 | 1/2 | 840.47   | 1/2 | 574.43 | 1/2 | 301.18 | 1/2 | 30.01  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,378.85 | 3/4 | 1,106.35 | 3/4 | 834.97   | 3/4 | 568.75 | 3/4 | 295.49 | 3/4 | 26.21  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 1,373.18 | 9   | 1,100.68 | 9   | 829.47   | 9   | 563.07 | 9   | 289.79 | 9   | 22.42  | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 1,367.50 | 1/4 | 1,095.00 | 1/4 | 823.98   | 1/4 | 557.38 | 1/4 | 284.10 | 1/4 | 18.62  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,361.82 | 1/2 | 1,089.32 | 1/2 | 818.48   | 1/2 | 551.70 | 1/2 | 278.41 | 1/2 | 14.83  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,356.15 | 3/4 | 1,083.65 | 3/4 | 812.98   | 3/4 | 546.02 | 3/4 | 272.71 | 3/4 | 12.93  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 1,350.47 | 10  | 1,077.97 | 10  | 807.48   | 10  | 540.33 | 10  | 267.02 | 10  | 11.03  | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 1,344.79 | 1/4 | 1,072.29 | 1/4 | 801.99   | 1/4 | 534.64 | 1/4 | 261.32 | 1/4 | 9.13   | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,339.11 | 1/2 | 1,066.61 | 1/2 | 796.49   | 1/2 | 528.96 | 1/2 | 255.63 | 1/2 | 7.23   | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,333.44 | 3/4 | 1,060.94 | 3/4 | 791.00   | 3/4 | 523.27 | 3/4 | 249.93 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,327.76 | 11  | 1,055.26 | 11  | 785.51   | 11  | 517.57 | 11  | 244.24 | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,322.08 | 1/4 | 1,049.58 | 1/4 | 780.03   | 1/4 | 511.88 | 1/4 | 238.54 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,316.41 | 1/2 | 1,043.91 | 1/2 | 774.54   | 1/2 | 506.19 | 1/2 | 232.85 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,310.73 | 3/4 | 1,038.23 | 3/4 | 769.06   | 3/4 | 500.50 | 3/4 | 227.15 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

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



# BARGE "HFL 230SS"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 1/4"

| IN  | 0 FT. | IN  | 1 FT.    | IN  | 2 FT.    | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |          | 0   | 3,407.56 | 0   | 3,159.67 | 0   | 2,911.79 | 0   | 2,663.90 | 0   | 2,416.01 | 0   | 2,168.13 | 0   | 1,920.24 | 0   | 1,672.35 |
| 1/4 |       | 1/4 |          | 1/4 | 3,402.39 | 1/4 | 3,154.51 | 1/4 | 2,906.62 | 1/4 | 2,658.74 | 1/4 | 2,410.85 | 1/4 | 2,162.96 | 1/4 | 1,915.08 | 1/4 | 1,667.19 |
| 1/2 |       | 1/2 |          | 1/2 | 3,397.23 | 1/2 | 3,149.34 | 1/2 | 2,901.46 | 1/2 | 2,653.57 | 1/2 | 2,405.68 | 1/2 | 2,157.80 | 1/2 | 1,909.91 | 1/2 | 1,662.03 |
| 3/4 |       | 3/4 |          | 3/4 | 3,392.07 | 3/4 | 3,144.18 | 3/4 | 2,896.29 | 3/4 | 2,648.41 | 3/4 | 2,400.52 | 3/4 | 2,152.63 | 3/4 | 1,904.75 | 3/4 | 1,656.86 |
| 1   |       | 1   |          | 1   | 3,386.90 | 1   | 3,139.02 | 1   | 2,891.13 | 1   | 2,643.24 | 1   | 2,395.36 | 1   | 2,147.47 | 1   | 1,899.58 | 1   | 1,651.70 |
| 1/4 |       | 1/4 |          | 1/4 | 3,381.74 | 1/4 | 3,133.85 | 1/4 | 2,885.96 | 1/4 | 2,638.08 | 1/4 | 2,390.19 | 1/4 | 2,142.31 | 1/4 | 1,894.42 | 1/4 | 1,646.53 |
| 1/2 |       | 1/2 |          | 1/2 | 3,376.57 | 1/2 | 3,128.69 | 1/2 | 2,880.80 | 1/2 | 2,632.91 | 1/2 | 2,385.03 | 1/2 | 2,137.14 | 1/2 | 1,889.25 | 1/2 | 1,641.37 |
| 3/4 |       | 3/4 |          | 3/4 | 3,371.41 | 3/4 | 3,123.52 | 3/4 | 2,875.64 | 3/4 | 2,627.75 | 3/4 | 2,379.86 | 3/4 | 2,131.98 | 3/4 | 1,884.09 | 3/4 | 1,636.20 |
| 2   |       | 2   |          | 2   | 3,366.24 | 2   | 3,118.36 | 2   | 2,870.47 | 2   | 2,622.59 | 2   | 2,374.70 | 2   | 2,126.81 | 2   | 1,878.93 | 2   | 1,631.04 |
| 1/4 |       | 1/4 |          | 1/4 | 3,361.08 | 1/4 | 3,113.19 | 1/4 | 2,865.31 | 1/4 | 2,617.42 | 1/4 | 2,369.53 | 1/4 | 2,121.65 | 1/4 | 1,873.76 | 1/4 | 1,625.88 |
| 1/2 |       | 1/2 |          | 1/2 | 3,355.92 | 1/2 | 3,108.03 | 1/2 | 2,860.14 | 1/2 | 2,612.26 | 1/2 | 2,364.37 | 1/2 | 2,116.48 | 1/2 | 1,868.60 | 1/2 | 1,620.71 |
| 3/4 |       | 3/4 | 3,567.39 | 3/4 | 3,350.75 | 3/4 | 3,102.87 | 3/4 | 2,854.98 | 3/4 | 2,607.09 | 3/4 | 2,359.21 | 3/4 | 2,111.32 | 3/4 | 1,863.43 | 3/4 | 1,615.55 |
| 3   |       | 3   | 3,566.53 | 3   | 3,345.59 | 3   | 3,097.70 | 3   | 2,849.81 | 3   | 2,601.93 | 3   | 2,354.04 | 3   | 2,106.16 | 3   | 1,858.27 | 3   | 1,610.38 |
| 1/4 |       | 1/4 | 3,565.67 | 1/4 | 3,340.42 | 1/4 | 3,092.54 | 1/4 | 2,844.65 | 1/4 | 2,596.76 | 1/4 | 2,348.88 | 1/4 | 2,100.99 | 1/4 | 1,853.10 | 1/4 | 1,605.22 |
| 1/2 |       | 1/2 | 3,563.95 | 1/2 | 3,335.26 | 1/2 | 3,087.37 | 1/2 | 2,839.49 | 1/2 | 2,591.60 | 1/2 | 2,343.71 | 1/2 | 2,095.83 | 1/2 | 1,847.94 | 1/2 | 1,600.05 |
| 3/4 |       | 3/4 | 3,562.23 | 3/4 | 3,330.09 | 3/4 | 3,082.21 | 3/4 | 2,834.32 | 3/4 | 2,586.44 | 3/4 | 2,338.55 | 3/4 | 2,090.66 | 3/4 | 1,842.78 | 3/4 | 1,594.89 |
| 4   |       | 4   | 3,560.50 | 4   | 3,324.93 | 4   | 3,077.04 | 4   | 2,829.16 | 4   | 2,581.27 | 4   | 2,333.38 | 4   | 2,085.50 | 4   | 1,837.61 | 4   | 1,589.73 |
| 1/4 |       | 1/4 | 3,558.78 | 1/4 | 3,319.77 | 1/4 | 3,071.88 | 1/4 | 2,823.99 | 1/4 | 2,576.11 | 1/4 | 2,328.22 | 1/4 | 2,080.33 | 1/4 | 1,832.45 | 1/4 | 1,584.56 |
| 1/2 |       | 1/2 | 3,555.34 | 1/2 | 3,314.60 | 1/2 | 3,066.71 | 1/2 | 2,818.83 | 1/2 | 2,570.94 | 1/2 | 2,323.06 | 1/2 | 2,075.17 | 1/2 | 1,827.28 | 1/2 | 1,579.40 |
| 3/4 |       | 3/4 | 3,551.90 | 3/4 | 3,309.44 | 3/4 | 3,061.55 | 3/4 | 2,813.66 | 3/4 | 2,565.78 | 3/4 | 2,317.89 | 3/4 | 2,070.01 | 3/4 | 1,822.12 | 3/4 | 1,574.23 |
| 5   |       | 5   | 3,548.46 | 5   | 3,304.27 | 5   | 3,056.39 | 5   | 2,808.50 | 5   | 2,560.61 | 5   | 2,312.73 | 5   | 2,064.84 | 5   | 1,816.95 | 5   | 1,569.07 |
| 1/4 |       | 1/4 | 3,545.02 | 1/4 | 3,299.11 | 1/4 | 3,051.22 | 1/4 | 2,803.34 | 1/4 | 2,555.45 | 1/4 | 2,307.56 | 1/4 | 2,059.68 | 1/4 | 1,811.79 | 1/4 | 1,563.90 |
| 1/2 |       | 1/2 | 3,540.31 | 1/2 | 3,293.94 | 1/2 | 3,046.06 | 1/2 | 2,798.17 | 1/2 | 2,550.28 | 1/2 | 2,302.40 | 1/2 | 2,054.51 | 1/2 | 1,806.63 | 1/2 | 1,558.74 |
| 3/4 |       | 3/4 | 3,535.59 | 3/4 | 3,288.78 | 3/4 | 3,040.89 | 3/4 | 2,793.01 | 3/4 | 2,545.12 | 3/4 | 2,297.23 | 3/4 | 2,049.35 | 3/4 | 1,801.46 | 3/4 | 1,553.58 |
| 6   |       | 6   | 3,530.88 | 6   | 3,283.62 | 6   | 3,035.73 | 6   | 2,787.84 | 6   | 2,539.96 | 6   | 2,292.07 | 6   | 2,044.18 | 6   | 1,796.30 | 6   | 1,548.41 |
| 1/4 |       | 1/4 | 3,526.17 | 1/4 | 3,278.45 | 1/4 | 3,030.56 | 1/4 | 2,782.68 | 1/4 | 2,534.79 | 1/4 | 2,286.91 | 1/4 | 2,039.02 | 1/4 | 1,791.13 | 1/4 | 1,543.25 |
| 1/2 |       | 1/2 | 3,521.04 | 1/2 | 3,273.29 | 1/2 | 3,025.40 | 1/2 | 2,777.51 | 1/2 | 2,529.63 | 1/2 | 2,281.74 | 1/2 | 2,033.85 | 1/2 | 1,785.97 | 1/2 | 1,538.08 |
| 3/4 |       | 3/4 | 3,515.90 | 3/4 | 3,268.12 | 3/4 | 3,020.24 | 3/4 | 2,772.35 | 3/4 | 2,524.46 | 3/4 | 2,276.58 | 3/4 | 2,028.69 | 3/4 | 1,780.80 | 3/4 | 1,532.92 |
| 7   |       | 7   | 3,510.77 | 7   | 3,262.96 | 7   | 3,015.07 | 7   | 2,767.19 | 7   | 2,519.30 | 7   | 2,271.41 | 7   | 2,023.53 | 7   | 1,775.64 | 7   | 1,527.75 |
| 1/4 |       | 1/4 | 3,505.63 | 1/4 | 3,257.79 | 1/4 | 3,009.91 | 1/4 | 2,762.02 | 1/4 | 2,514.13 | 1/4 | 2,266.25 | 1/4 | 2,018.36 | 1/4 | 1,770.48 | 1/4 | 1,522.59 |
| 1/2 |       | 1/2 | 3,500.47 | 1/2 | 3,252.63 | 1/2 | 3,004.74 | 1/2 | 2,756.86 | 1/2 | 2,508.97 | 1/2 | 2,261.08 | 1/2 | 2,013.20 | 1/2 | 1,765.31 | 1/2 | 1,517.42 |
| 3/4 |       | 3/4 | 3,495.32 | 3/4 | 3,247.47 | 3/4 | 2,999.58 | 3/4 | 2,751.69 | 3/4 | 2,503.81 | 3/4 | 2,255.92 | 3/4 | 2,008.03 | 3/4 | 1,760.15 | 3/4 | 1,512.26 |
| 8   |       | 8   | 3,490.16 | 8   | 3,242.30 | 8   | 2,994.41 | 8   | 2,746.53 | 8   | 2,498.64 | 8   | 2,250.76 | 8   | 2,002.87 | 8   | 1,754.98 | 8   | 1,507.10 |
| 1/4 |       | 1/4 | 3,485.00 | 1/4 | 3,237.14 | 1/4 | 2,989.25 | 1/4 | 2,741.36 | 1/4 | 2,493.48 | 1/4 | 2,245.59 | 1/4 | 1,997.70 | 1/4 | 1,749.82 | 1/4 | 1,501.93 |
| 1/2 |       | 1/2 | 3,479.84 | 1/2 | 3,231.97 | 1/2 | 2,984.09 | 1/2 | 2,736.20 | 1/2 | 2,488.31 | 1/2 | 2,240.43 | 1/2 | 1,992.54 | 1/2 | 1,744.65 | 1/2 | 1,496.77 |
| 3/4 |       | 3/4 | 3,474.69 | 3/4 | 3,226.81 | 3/4 | 2,978.92 | 3/4 | 2,731.04 | 3/4 | 2,483.15 | 3/4 | 2,235.26 | 3/4 | 1,987.38 | 3/4 | 1,739.49 | 3/4 | 1,491.60 |
| 9   |       | 9   | 3,469.53 | 9   | 3,221.64 | 9   | 2,973.76 | 9   | 2,725.87 | 9   | 2,477.98 | 9   | 2,230.10 | 9   | 1,982.21 | 9   | 1,734.33 | 9   | 1,486.44 |
| 1/4 |       | 1/4 | 3,464.37 | 1/4 | 3,216.48 | 1/4 | 2,968.59 | 1/4 | 2,720.71 | 1/4 | 2,472.82 | 1/4 | 2,224.93 | 1/4 | 1,977.05 | 1/4 | 1,729.16 | 1/4 | 1,481.27 |
| 1/2 |       | 1/2 | 3,459.20 | 1/2 | 3,211.32 | 1/2 | 2,963.43 | 1/2 | 2,715.54 | 1/2 | 2,467.66 | 1/2 | 2,219.77 | 1/2 | 1,971.88 | 1/2 | 1,724.00 | 1/2 | 1,476.11 |
| 3/4 |       | 3/4 | 3,454.04 | 3/4 | 3,206.15 | 3/4 | 2,958.26 | 3/4 | 2,710.38 | 3/4 | 2,462.49 | 3/4 | 2,214.61 | 3/4 | 1,966.72 | 3/4 | 1,718.83 | 3/4 | 1,470.95 |
| 10  |       | 10  | 3,448.87 | 10  | 3,200.99 | 10  | 2,953.10 | 10  | 2,705.21 | 10  | 2,457.33 | 10  | 2,209.44 | 10  | 1,961.55 | 10  | 1,713.67 | 10  | 1,465.78 |
| 1/4 |       | 1/4 | 3,443.71 | 1/4 | 3,195.82 | 1/4 | 2,947.94 | 1/4 | 2,700.05 | 1/4 | 2,452.16 | 1/4 | 2,204.28 | 1/4 | 1,956.39 | 1/4 | 1,708.50 | 1/4 | 1,460.62 |
| 1/2 |       | 1/2 | 3,438.54 | 1/2 | 3,190.66 | 1/2 | 2,942.77 | 1/2 | 2,694.89 | 1/2 | 2,447.00 | 1/2 | 2,199.11 | 1/2 | 1,951.23 | 1/2 | 1,703.34 | 1/2 | 1,455.45 |
| 3/4 |       | 3/4 | 3,433.38 | 3/4 | 3,185.49 | 3/4 | 2,937.61 | 3/4 | 2,689.72 | 3/4 | 2,441.83 | 3/4 | 2,193.95 | 3/4 | 1,946.06 | 3/4 | 1,698.18 | 3/4 | 1,450.29 |
| 11  |       | 11  | 3,428.22 | 11  | 3,180.33 | 11  | 2,932.44 | 11  | 2,684.56 | 11  | 2,436.67 | 11  | 2,188.78 | 11  | 1,940.90 | 11  | 1,693.01 | 11  | 1,445.12 |
| 1/4 |       | 1/4 | 3,423.05 | 1/4 | 3,175.17 | 1/4 | 2,927.28 | 1/4 | 2,679.39 | 1/4 | 2,431.51 | 1/4 | 2,183.62 | 1/4 | 1,935.73 | 1/4 | 1,687.85 | 1/4 | 1,439.96 |
| 1/2 |       | 1/2 | 3,417.89 | 1/2 | 3,170.00 | 1/2 | 2,922.11 | 1/2 | 2,674.23 | 1/2 | 2,426.34 | 1/2 | 2,178.46 | 1/2 | 1,930.57 | 1/2 | 1,682.68 | 1/2 | 1,434.80 |
| 3/4 |       | 3/4 | 3,412.72 | 3/4 | 3,164.84 | 3/4 | 2,916.95 | 3/4 | 2,669.06 | 3/4 | 2,421.18 | 3/4 | 2,173.29 | 3/4 | 1,925.40 | 3/4 | 1,677.52 | 3/4 | 1,429.63 |

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 OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 230SS"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 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   | 1,424.47 | 0   | 1,176.58 | 0   | 928.69 | 0   | 684.17 | 0   | 439.32 | 0   | 191.45 | 0   |        | 0  |        | 0  |        | 0  |        |
| 1/4 | 1,419.30 | 1/4 | 1,171.42 | 1/4 | 923.53 | 1/4 | 679.17 | 1/4 | 434.16 | 1/4 | 186.28 | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,414.14 | 1/2 | 1,166.25 | 1/2 | 918.37 | 1/2 | 674.16 | 1/2 | 428.99 | 1/2 | 181.12 | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,408.97 | 3/4 | 1,161.09 | 3/4 | 913.20 | 3/4 | 669.16 | 3/4 | 423.83 | 3/4 | 175.96 | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 1   | 1,403.81 | 1   | 1,155.92 | 1   | 908.04 | 1   | 664.16 | 1   | 418.66 | 1   | 170.79 | 1   |        | 1  |        | 1  |        | 1  |        |
| 1/4 | 1,398.65 | 1/4 | 1,150.76 | 1/4 | 902.87 | 1/4 | 659.16 | 1/4 | 413.50 | 1/4 | 165.63 | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,393.48 | 1/2 | 1,145.60 | 1/2 | 897.71 | 1/2 | 654.15 | 1/2 | 408.34 | 1/2 | 160.46 | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,388.32 | 3/4 | 1,140.43 | 3/4 | 892.54 | 3/4 | 649.15 | 3/4 | 403.17 | 3/4 | 155.30 | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 2   | 1,383.15 | 2   | 1,135.27 | 2   | 887.38 | 2   | 644.15 | 2   | 398.01 | 2   | 150.14 | 2   |        | 2  |        | 2  |        | 2  |        |
| 1/4 | 1,377.99 | 1/4 | 1,130.10 | 1/4 | 882.22 | 1/4 | 639.15 | 1/4 | 392.84 | 1/4 | 144.97 | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,372.82 | 1/2 | 1,124.94 | 1/2 | 877.05 | 1/2 | 634.14 | 1/2 | 387.68 | 1/2 | 139.81 | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,367.66 | 3/4 | 1,119.77 | 3/4 | 871.89 | 3/4 | 629.14 | 3/4 | 382.52 | 3/4 | 134.64 | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 3   | 1,362.50 | 3   | 1,114.61 | 3   | 866.72 | 3   | 624.14 | 3   | 377.35 | 3   | 129.48 | 3   |        | 3  |        | 3  |        | 3  |        |
| 1/4 | 1,357.33 | 1/4 | 1,109.45 | 1/4 | 861.56 | 1/4 | 619.14 | 1/4 | 372.19 | 1/4 | 124.32 | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,352.17 | 1/2 | 1,104.28 | 1/2 | 856.39 | 1/2 | 614.13 | 1/2 | 367.02 | 1/2 | 119.15 | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,347.00 | 3/4 | 1,099.12 | 3/4 | 851.23 | 3/4 | 609.12 | 3/4 | 361.86 | 3/4 | 113.99 | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 4   | 1,341.84 | 4   | 1,093.95 | 4   | 846.07 | 4   | 604.11 | 4   | 356.70 | 4   | 108.82 | 4   |        | 4  |        | 4  |        | 4  |        |
| 1/4 | 1,336.67 | 1/4 | 1,088.79 | 1/4 | 840.90 | 1/4 | 599.11 | 1/4 | 351.53 | 1/4 | 103.66 | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,331.51 | 1/2 | 1,083.62 | 1/2 | 835.74 | 1/2 | 594.02 | 1/2 | 346.37 | 1/2 | 98.50  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,326.35 | 3/4 | 1,078.46 | 3/4 | 830.57 | 3/4 | 588.93 | 3/4 | 341.20 | 3/4 | 93.33  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 5   | 1,321.18 | 5   | 1,073.30 | 5   | 825.41 | 5   | 583.84 | 5   | 336.04 | 5   | 88.17  | 5   |        | 5  |        | 5  |        | 5  |        |
| 1/4 | 1,316.02 | 1/4 | 1,068.13 | 1/4 | 820.24 | 1/4 | 578.75 | 1/4 | 330.88 | 1/4 | 83.01  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,310.85 | 1/2 | 1,062.97 | 1/2 | 815.08 | 1/2 | 573.58 | 1/2 | 325.71 | 1/2 | 77.85  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,305.69 | 3/4 | 1,057.80 | 3/4 | 809.92 | 3/4 | 568.42 | 3/4 | 320.55 | 3/4 | 72.69  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 6   | 1,300.52 | 6   | 1,052.64 | 6   | 804.75 | 6   | 563.26 | 6   | 315.38 | 6   | 67.54  | 6   |        | 6  |        | 6  |        | 6  |        |
| 1/4 | 1,295.36 | 1/4 | 1,047.47 | 1/4 | 799.59 | 1/4 | 558.09 | 1/4 | 310.22 | 1/4 | 62.38  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,290.20 | 1/2 | 1,042.31 | 1/2 | 794.50 | 1/2 | 552.93 | 1/2 | 305.06 | 1/2 | 57.24  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,285.03 | 3/4 | 1,037.15 | 3/4 | 789.41 | 3/4 | 547.76 | 3/4 | 299.89 | 3/4 | 52.11  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 7   | 1,279.87 | 7   | 1,031.98 | 7   | 784.32 | 7   | 542.60 | 7   | 294.73 | 7   | 46.97  | 7   |        | 7  |        | 7  |        | 7  |        |
| 1/4 | 1,274.70 | 1/4 | 1,026.82 | 1/4 | 779.23 | 1/4 | 537.44 | 1/4 | 289.56 | 1/4 | 41.84  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,269.54 | 1/2 | 1,021.65 | 1/2 | 774.22 | 1/2 | 532.27 | 1/2 | 284.40 | 1/2 | 37.13  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,264.37 | 3/4 | 1,016.49 | 3/4 | 769.22 | 3/4 | 527.11 | 3/4 | 279.24 | 3/4 | 32.42  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 8   | 1,259.21 | 8   | 1,011.32 | 8   | 764.21 | 8   | 521.94 | 8   | 274.07 | 8   | 27.71  | 8   |        | 8  |        | 8  |        | 8  |        |
| 1/4 | 1,254.05 | 1/4 | 1,006.16 | 1/4 | 759.20 | 1/4 | 516.78 | 1/4 | 268.91 | 1/4 | 23.00  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,248.88 | 1/2 | 1,000.99 | 1/2 | 754.20 | 1/2 | 511.62 | 1/2 | 263.74 | 1/2 | 19.56  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,243.72 | 3/4 | 995.83   | 3/4 | 749.20 | 3/4 | 506.45 | 3/4 | 258.58 | 3/4 | 16.11  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 9   | 1,238.55 | 9   | 990.67   | 9   | 744.20 | 9   | 501.29 | 9   | 253.42 | 9   | 12.67  | 9   |        | 9  |        | 9  |        | 9  |        |
| 1/4 | 1,233.39 | 1/4 | 985.50   | 1/4 | 739.19 | 1/4 | 496.12 | 1/4 | 248.25 | 1/4 | 9.23   | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,228.22 | 1/2 | 980.34   | 1/2 | 734.19 | 1/2 | 490.96 | 1/2 | 243.09 | 1/2 | 7.51   | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,223.06 | 3/4 | 975.17   | 3/4 | 729.19 | 3/4 | 485.80 | 3/4 | 237.92 | 3/4 | 5.79   | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 10  | 1,217.90 | 10  | 970.01   | 10  | 724.19 | 10  | 480.63 | 10  | 232.76 | 10  | 4.07   | 10  |        | 10 |        | 10 |        | 10 |        |
| 1/4 | 1,212.73 | 1/4 | 964.84   | 1/4 | 719.18 | 1/4 | 475.47 | 1/4 | 227.60 | 1/4 | 2.35   | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,207.57 | 1/2 | 959.68   | 1/2 | 714.18 | 1/2 | 470.30 | 1/2 | 222.43 | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,202.40 | 3/4 | 954.52   | 3/4 | 709.18 | 3/4 | 465.14 | 3/4 | 217.27 | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |
| 11  | 1,197.24 | 11  | 949.35   | 11  | 704.18 | 11  | 459.98 | 11  | 212.10 | 11  |        | 11  |        | 11 |        | 11 |        | 11 |        |
| 1/4 | 1,192.07 | 1/4 | 944.19   | 1/4 | 699.17 | 1/4 | 454.81 | 1/4 | 206.94 | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 1,186.91 | 1/2 | 939.02   | 1/2 | 694.17 | 1/2 | 449.65 | 1/2 | 201.78 | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 1,181.75 | 3/4 | 933.86   | 3/4 | 689.17 | 3/4 | 444.48 | 3/4 | 196.61 | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |    | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

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



# BARGE "HFL 230SS"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-11"

| 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   | 3,404.96 | 0   | 3,158.80 | 0   | 2,912.64 | 0   | 2,666.47 | 0   | 2,420.31 | 0   | 2,174.15 | 0   | 1,927.98 | 0   | 1,681.82 |
| 1/4 |       | 1/4 |       | 1/4 | 3,399.83 | 1/4 | 3,153.67 | 1/4 | 2,907.51 | 1/4 | 2,661.34 | 1/4 | 2,415.18 | 1/4 | 2,169.02 | 1/4 | 1,922.85 | 1/4 | 1,676.69 |
| 1/2 |       | 1/2 |       | 1/2 | 3,394.71 | 1/2 | 3,148.54 | 1/2 | 2,902.38 | 1/2 | 2,656.22 | 1/2 | 2,410.05 | 1/2 | 2,163.89 | 1/2 | 1,917.73 | 1/2 | 1,671.56 |
| 3/4 |       | 3/4 |       | 3/4 | 3,389.58 | 3/4 | 3,143.41 | 3/4 | 2,897.25 | 3/4 | 2,651.09 | 3/4 | 2,404.92 | 3/4 | 2,158.76 | 3/4 | 1,912.60 | 3/4 | 1,666.43 |
| 1   |       | 1   |       | 1   | 3,384.45 | 1   | 3,138.29 | 1   | 2,892.12 | 1   | 2,645.96 | 1   | 2,399.80 | 1   | 2,153.63 | 1   | 1,907.47 | 1   | 1,661.31 |
| 1/4 |       | 1/4 |       | 1/4 | 3,379.32 | 1/4 | 3,133.16 | 1/4 | 2,886.99 | 1/4 | 2,640.83 | 1/4 | 2,394.67 | 1/4 | 2,148.50 | 1/4 | 1,902.34 | 1/4 | 1,656.18 |
| 1/2 |       | 1/2 |       | 1/2 | 3,374.19 | 1/2 | 3,128.03 | 1/2 | 2,881.87 | 1/2 | 2,635.70 | 1/2 | 2,389.54 | 1/2 | 2,143.38 | 1/2 | 1,897.21 | 1/2 | 1,651.05 |
| 3/4 |       | 3/4 |       | 3/4 | 3,369.06 | 3/4 | 3,122.90 | 3/4 | 2,876.74 | 3/4 | 2,630.57 | 3/4 | 2,384.41 | 3/4 | 2,138.25 | 3/4 | 1,892.08 | 3/4 | 1,645.92 |
| 2   |       | 2   |       | 2   | 3,363.94 | 2   | 3,117.77 | 2   | 2,871.61 | 2   | 2,625.45 | 2   | 2,379.28 | 2   | 2,133.12 | 2   | 1,886.96 | 2   | 1,640.79 |
| 1/4 |       | 1/4 |       | 1/4 | 3,358.81 | 1/4 | 3,112.64 | 1/4 | 2,866.48 | 1/4 | 2,620.32 | 1/4 | 2,374.15 | 1/4 | 2,127.99 | 1/4 | 1,881.83 | 1/4 | 1,635.66 |
| 1/2 |       | 1/2 |       | 1/2 | 3,353.68 | 1/2 | 3,107.52 | 1/2 | 2,861.35 | 1/2 | 2,615.19 | 1/2 | 2,369.03 | 1/2 | 2,122.86 | 1/2 | 1,876.70 | 1/2 | 1,630.54 |
| 3/4 |       | 3/4 |       | 3/4 | 3,348.55 | 3/4 | 3,102.39 | 3/4 | 2,856.22 | 3/4 | 2,610.06 | 3/4 | 2,363.90 | 3/4 | 2,117.73 | 3/4 | 1,871.57 | 3/4 | 1,625.41 |
| 3   |       | 3   |       | 3   | 3,343.42 | 3   | 3,097.26 | 3   | 2,851.10 | 3   | 2,604.93 | 3   | 2,358.77 | 3   | 2,112.61 | 3   | 1,866.44 | 3   | 1,620.28 |
| 1/4 |       | 1/4 |       | 1/4 | 3,338.29 | 1/4 | 3,092.13 | 1/4 | 2,845.97 | 1/4 | 2,599.80 | 1/4 | 2,353.64 | 1/4 | 2,107.48 | 1/4 | 1,861.31 | 1/4 | 1,615.15 |
| 1/2 |       | 1/2 |       | 1/2 | 3,548.31 | 1/2 | 3,333.16 | 1/2 | 3,087.00 | 1/2 | 2,840.84 | 1/2 | 2,594.68 | 1/2 | 2,348.51 | 1/2 | 2,102.35 | 1/2 | 1,856.19 |
| 3/4 |       | 3/4 |       | 3/4 | 3,547.46 | 3/4 | 3,328.04 | 3/4 | 3,081.87 | 3/4 | 2,835.71 | 3/4 | 2,589.55 | 3/4 | 2,343.38 | 3/4 | 2,097.22 | 3/4 | 1,851.06 |
| 4   |       | 4   |       | 4   | 3,546.60 | 4   | 3,322.91 | 4   | 3,076.74 | 4   | 2,830.58 | 4   | 2,584.42 | 4   | 2,338.26 | 4   | 2,092.09 | 4   | 1,845.93 |
| 1/4 |       | 1/4 |       | 1/4 | 3,544.89 | 1/4 | 3,317.78 | 1/4 | 3,071.62 | 1/4 | 2,825.45 | 1/4 | 2,579.29 | 1/4 | 2,333.13 | 1/4 | 2,086.96 | 1/4 | 1,840.80 |
| 1/2 |       | 1/2 |       | 1/2 | 3,543.18 | 1/2 | 3,312.65 | 1/2 | 3,066.49 | 1/2 | 2,820.32 | 1/2 | 2,574.16 | 1/2 | 2,328.00 | 1/2 | 2,081.84 | 1/2 | 1,835.67 |
| 3/4 |       | 3/4 |       | 3/4 | 3,541.47 | 3/4 | 3,307.52 | 3/4 | 3,061.36 | 3/4 | 2,815.20 | 3/4 | 2,569.03 | 3/4 | 2,322.87 | 3/4 | 2,076.71 | 3/4 | 1,830.54 |
| 5   |       | 5   |       | 5   | 3,539.76 | 5   | 3,302.39 | 5   | 3,056.23 | 5   | 2,810.07 | 5   | 2,563.90 | 5   | 2,317.74 | 5   | 2,071.58 | 5   | 1,825.42 |
| 1/4 |       | 1/4 |       | 1/4 | 3,536.35 | 1/4 | 3,297.27 | 1/4 | 3,051.10 | 1/4 | 2,804.94 | 1/4 | 2,558.78 | 1/4 | 2,312.61 | 1/4 | 2,066.45 | 1/4 | 1,820.29 |
| 1/2 |       | 1/2 |       | 1/2 | 3,532.93 | 1/2 | 3,292.14 | 1/2 | 3,045.97 | 1/2 | 2,799.81 | 1/2 | 2,553.65 | 1/2 | 2,307.48 | 1/2 | 2,061.32 | 1/2 | 1,815.16 |
| 3/4 |       | 3/4 |       | 3/4 | 3,529.51 | 3/4 | 3,287.01 | 3/4 | 3,040.85 | 3/4 | 2,794.68 | 3/4 | 2,548.52 | 3/4 | 2,302.36 | 3/4 | 2,056.19 | 3/4 | 1,810.03 |
| 6   |       | 6   |       | 6   | 3,526.09 | 6   | 3,281.88 | 6   | 3,035.72 | 6   | 2,789.55 | 6   | 2,543.39 | 6   | 2,297.23 | 6   | 2,051.06 | 6   | 1,804.90 |
| 1/4 |       | 1/4 |       | 1/4 | 3,521.41 | 1/4 | 3,276.75 | 1/4 | 3,030.59 | 1/4 | 2,784.43 | 1/4 | 2,538.26 | 1/4 | 2,292.10 | 1/4 | 2,045.94 | 1/4 | 1,799.77 |
| 1/2 |       | 1/2 |       | 1/2 | 3,516.74 | 1/2 | 3,271.62 | 1/2 | 3,025.46 | 1/2 | 2,779.30 | 1/2 | 2,533.13 | 1/2 | 2,286.97 | 1/2 | 2,040.81 | 1/2 | 1,794.64 |
| 3/4 |       | 3/4 |       | 3/4 | 3,512.06 | 3/4 | 3,266.50 | 3/4 | 3,020.33 | 3/4 | 2,774.17 | 3/4 | 2,528.01 | 3/4 | 2,281.84 | 3/4 | 2,035.68 | 3/4 | 1,789.52 |
| 7   |       | 7   |       | 7   | 3,507.38 | 7   | 3,261.37 | 7   | 3,015.20 | 7   | 2,769.04 | 7   | 2,522.88 | 7   | 2,276.71 | 7   | 2,030.55 | 7   | 1,784.39 |
| 1/4 |       | 1/4 |       | 1/4 | 3,502.28 | 1/4 | 3,256.24 | 1/4 | 3,010.08 | 1/4 | 2,763.91 | 1/4 | 2,517.75 | 1/4 | 2,271.59 | 1/4 | 2,025.42 | 1/4 | 1,779.26 |
| 1/2 |       | 1/2 |       | 1/2 | 3,497.18 | 1/2 | 3,251.11 | 1/2 | 3,004.95 | 1/2 | 2,758.78 | 1/2 | 2,512.62 | 1/2 | 2,266.46 | 1/2 | 2,020.29 | 1/2 | 1,774.13 |
| 3/4 |       | 3/4 |       | 3/4 | 3,492.08 | 3/4 | 3,245.98 | 3/4 | 2,999.82 | 3/4 | 2,753.66 | 3/4 | 2,507.49 | 3/4 | 2,261.33 | 3/4 | 2,015.17 | 3/4 | 1,769.00 |
| 8   |       | 8   |       | 8   | 3,486.98 | 8   | 3,240.85 | 8   | 2,994.69 | 8   | 2,748.53 | 8   | 2,502.36 | 8   | 2,256.20 | 8   | 2,010.04 | 8   | 1,763.87 |
| 1/4 |       | 1/4 |       | 1/4 | 3,481.86 | 1/4 | 3,235.73 | 1/4 | 2,989.56 | 1/4 | 2,743.40 | 1/4 | 2,497.24 | 1/4 | 2,251.07 | 1/4 | 2,004.91 | 1/4 | 1,758.75 |
| 1/2 |       | 1/2 |       | 1/2 | 3,476.74 | 1/2 | 3,230.60 | 1/2 | 2,984.43 | 1/2 | 2,738.27 | 1/2 | 2,492.11 | 1/2 | 2,245.94 | 1/2 | 1,999.78 | 1/2 | 1,753.62 |
| 3/4 |       | 3/4 |       | 3/4 | 3,471.62 | 3/4 | 3,225.47 | 3/4 | 2,979.31 | 3/4 | 2,733.14 | 3/4 | 2,486.98 | 3/4 | 2,240.82 | 3/4 | 1,994.65 | 3/4 | 1,748.49 |
| 9   |       | 9   |       | 9   | 3,466.50 | 9   | 3,220.34 | 9   | 2,974.18 | 9   | 2,728.01 | 9   | 2,481.85 | 9   | 2,235.69 | 9   | 1,989.52 | 9   | 1,743.36 |
| 1/4 |       | 1/4 |       | 1/4 | 3,461.37 | 1/4 | 3,215.21 | 1/4 | 2,969.05 | 1/4 | 2,722.89 | 1/4 | 2,476.72 | 1/4 | 2,230.56 | 1/4 | 1,984.40 | 1/4 | 1,738.23 |
| 1/2 |       | 1/2 |       | 1/2 | 3,456.24 | 1/2 | 3,210.08 | 1/2 | 2,963.92 | 1/2 | 2,717.76 | 1/2 | 2,471.59 | 1/2 | 2,225.43 | 1/2 | 1,979.27 | 1/2 | 1,733.10 |
| 3/4 |       | 3/4 |       | 3/4 | 3,451.12 | 3/4 | 3,204.95 | 3/4 | 2,958.79 | 3/4 | 2,712.63 | 3/4 | 2,466.47 | 3/4 | 2,220.30 | 3/4 | 1,974.14 | 3/4 | 1,727.98 |
| 10  |       | 10  |       | 10  | 3,445.99 | 10  | 3,199.83 | 10  | 2,953.66 | 10  | 2,707.50 | 10  | 2,461.34 | 10  | 2,215.17 | 10  | 1,969.01 | 10  | 1,722.85 |
| 1/4 |       | 1/4 |       | 1/4 | 3,440.86 | 1/4 | 3,194.70 | 1/4 | 2,948.53 | 1/4 | 2,702.37 | 1/4 | 2,456.21 | 1/4 | 2,210.05 | 1/4 | 1,963.88 | 1/4 | 1,717.72 |
| 1/2 |       | 1/2 |       | 1/2 | 3,435.73 | 1/2 | 3,189.57 | 1/2 | 2,943.41 | 1/2 | 2,697.24 | 1/2 | 2,451.08 | 1/2 | 2,204.92 | 1/2 | 1,958.75 | 1/2 | 1,712.59 |
| 3/4 |       | 3/4 |       | 3/4 | 3,430.60 | 3/4 | 3,184.44 | 3/4 | 2,938.28 | 3/4 | 2,692.11 | 3/4 | 2,445.95 | 3/4 | 2,199.79 | 3/4 | 1,953.63 | 3/4 | 1,707.46 |
| 11  |       | 11  |       | 11  | 3,425.48 | 11  | 3,179.31 | 11  | 2,933.15 | 11  | 2,686.99 | 11  | 2,440.82 | 11  | 2,194.66 | 11  | 1,948.50 | 11  | 1,702.33 |
| 1/4 |       | 1/4 |       | 1/4 | 3,420.35 | 1/4 | 3,174.18 | 1/4 | 2,928.02 | 1/4 | 2,681.86 | 1/4 | 2,435.69 | 1/4 | 2,189.53 | 1/4 | 1,943.37 | 1/4 | 1,697.21 |
| 1/2 |       | 1/2 |       | 1/2 | 3,415.22 | 1/2 | 3,169.06 | 1/2 | 2,922.89 | 1/2 | 2,676.73 | 1/2 | 2,430.57 | 1/2 | 2,184.40 | 1/2 | 1,938.24 | 1/2 | 1,692.08 |
| 3/4 |       | 3/4 |       | 3/4 | 3,410.09 | 3/4 | 3,163.93 | 3/4 | 2,917.76 | 3/4 | 2,671.60 | 3/4 | 2,425.44 | 3/4 | 2,179.27 | 3/4 | 1,933.11 | 3/4 | 1,686.95 |

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 OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 230SS"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-11"

| 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   | 1,435.66 | 0   | 1,189.49 | 0   | 943.33 | 0   | 697.45 | 0   | 451.66 | 0   | 205.51 | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 1,430.53 | 1/4 | 1,184.37 | 1/4 | 938.20 | 1/4 | 692.34 | 1/4 | 446.53 | 1/4 | 200.38 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,425.40 | 1/2 | 1,179.24 | 1/2 | 933.07 | 1/2 | 687.23 | 1/2 | 441.40 | 1/2 | 195.25 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,420.27 | 3/4 | 1,174.11 | 3/4 | 927.95 | 3/4 | 682.12 | 3/4 | 436.28 | 3/4 | 190.12 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 1,415.14 | 1   | 1,168.98 | 1   | 922.82 | 1   | 677.01 | 1   | 431.15 | 1   | 184.99 | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 1,410.01 | 1/4 | 1,163.85 | 1/4 | 917.69 | 1/4 | 671.90 | 1/4 | 426.02 | 1/4 | 179.87 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,404.89 | 1/2 | 1,158.72 | 1/2 | 912.56 | 1/2 | 666.79 | 1/2 | 420.89 | 1/2 | 174.74 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,399.76 | 3/4 | 1,153.59 | 3/4 | 907.43 | 3/4 | 661.68 | 3/4 | 415.76 | 3/4 | 169.61 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 1,394.63 | 2   | 1,148.47 | 2   | 902.30 | 2   | 656.57 | 2   | 410.63 | 2   | 164.48 | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 1,389.50 | 1/4 | 1,143.34 | 1/4 | 897.17 | 1/4 | 651.46 | 1/4 | 405.51 | 1/4 | 159.35 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,384.37 | 1/2 | 1,138.21 | 1/2 | 892.05 | 1/2 | 646.35 | 1/2 | 400.38 | 1/2 | 154.22 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,379.24 | 3/4 | 1,133.08 | 3/4 | 886.92 | 3/4 | 641.24 | 3/4 | 395.25 | 3/4 | 149.10 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 1,374.12 | 3   | 1,127.95 | 3   | 881.79 | 3   | 636.13 | 3   | 390.12 | 3   | 143.97 | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 1,368.99 | 1/4 | 1,122.82 | 1/4 | 876.66 | 1/4 | 631.02 | 1/4 | 384.99 | 1/4 | 138.84 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,363.86 | 1/2 | 1,117.70 | 1/2 | 871.53 | 1/2 | 625.91 | 1/2 | 379.87 | 1/2 | 133.71 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,358.73 | 3/4 | 1,112.57 | 3/4 | 866.40 | 3/4 | 620.80 | 3/4 | 374.74 | 3/4 | 128.58 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 1,353.60 | 4   | 1,107.44 | 4   | 861.28 | 4   | 615.69 | 4   | 369.61 | 4   | 123.46 | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 1,348.47 | 1/4 | 1,102.31 | 1/4 | 856.15 | 1/4 | 610.58 | 1/4 | 364.48 | 1/4 | 118.33 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,343.35 | 1/2 | 1,097.18 | 1/2 | 851.02 | 1/2 | 605.46 | 1/2 | 359.35 | 1/2 | 113.20 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,338.22 | 3/4 | 1,092.05 | 3/4 | 845.89 | 3/4 | 600.35 | 3/4 | 354.22 | 3/4 | 108.07 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 1,333.09 | 5   | 1,086.93 | 5   | 840.76 | 5   | 595.23 | 5   | 349.10 | 5   | 102.94 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 1,327.96 | 1/4 | 1,081.80 | 1/4 | 835.63 | 1/4 | 590.11 | 1/4 | 343.97 | 1/4 | 97.81  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,322.83 | 1/2 | 1,076.67 | 1/2 | 830.51 | 1/2 | 584.98 | 1/2 | 338.84 | 1/2 | 92.69  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,317.70 | 3/4 | 1,071.54 | 3/4 | 825.38 | 3/4 | 579.86 | 3/4 | 333.71 | 3/4 | 87.56  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 1,312.58 | 6   | 1,066.41 | 6   | 820.25 | 6   | 574.74 | 6   | 328.58 | 6   | 82.43  | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 1,307.45 | 1/4 | 1,061.28 | 1/4 | 815.12 | 1/4 | 569.61 | 1/4 | 323.45 | 1/4 | 77.31  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,302.32 | 1/2 | 1,056.16 | 1/2 | 809.99 | 1/2 | 564.48 | 1/2 | 318.33 | 1/2 | 72.19  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,297.19 | 3/4 | 1,051.03 | 3/4 | 804.86 | 3/4 | 559.35 | 3/4 | 313.20 | 3/4 | 67.07  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 1,292.06 | 7   | 1,045.90 | 7   | 799.74 | 7   | 554.22 | 7   | 308.07 | 7   | 61.95  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 1,286.93 | 1/4 | 1,040.77 | 1/4 | 794.61 | 1/4 | 549.10 | 1/4 | 302.94 | 1/4 | 56.85  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,281.80 | 1/2 | 1,035.64 | 1/2 | 789.49 | 1/2 | 543.97 | 1/2 | 297.81 | 1/2 | 51.75  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,276.68 | 3/4 | 1,030.51 | 3/4 | 784.36 | 3/4 | 538.84 | 3/4 | 292.69 | 3/4 | 46.65  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 1,271.55 | 8   | 1,025.38 | 8   | 779.24 | 8   | 533.71 | 8   | 287.56 | 8   | 41.55  | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 1,266.42 | 1/4 | 1,020.26 | 1/4 | 774.12 | 1/4 | 528.58 | 1/4 | 282.43 | 1/4 | 36.87  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,261.29 | 1/2 | 1,015.13 | 1/2 | 769.00 | 1/2 | 523.45 | 1/2 | 277.30 | 1/2 | 32.20  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,256.16 | 3/4 | 1,010.00 | 3/4 | 763.89 | 3/4 | 518.33 | 3/4 | 272.17 | 3/4 | 27.52  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 1,251.03 | 9   | 1,004.87 | 9   | 758.77 | 9   | 513.20 | 9   | 267.04 | 9   | 22.84  | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 1,245.91 | 1/4 | 999.74   | 1/4 | 753.66 | 1/4 | 508.07 | 1/4 | 261.92 | 1/4 | 19.42  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,240.78 | 1/2 | 994.61   | 1/2 | 748.55 | 1/2 | 502.94 | 1/2 | 256.79 | 1/2 | 16.00  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,235.65 | 3/4 | 989.49   | 3/4 | 743.44 | 3/4 | 497.81 | 3/4 | 251.66 | 3/4 | 12.59  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 1,230.52 | 10  | 984.36   | 10  | 738.33 | 10  | 492.69 | 10  | 246.53 | 10  | 9.17   | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 1,225.39 | 1/4 | 979.23   | 1/4 | 733.22 | 1/4 | 487.56 | 1/4 | 241.40 | 1/4 | 7.46   | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,220.26 | 1/2 | 974.10   | 1/2 | 728.11 | 1/2 | 482.43 | 1/2 | 236.28 | 1/2 | 5.75   | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,215.14 | 3/4 | 968.97   | 3/4 | 723.00 | 3/4 | 477.30 | 3/4 | 231.15 | 3/4 | 4.04   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,210.01 | 11  | 963.84   | 11  | 717.89 | 11  | 472.17 | 11  | 226.02 | 11  | 2.33   | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,204.88 | 1/4 | 958.72   | 1/4 | 712.78 | 1/4 | 467.04 | 1/4 | 220.89 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,199.75 | 1/2 | 953.59   | 1/2 | 707.67 | 1/2 | 461.92 | 1/2 | 215.76 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,194.62 | 3/4 | 948.46   | 3/4 | 702.56 | 3/4 | 456.79 | 3/4 | 210.63 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HFL 230SS"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 1/2"

| IN  | 0 FT.  | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|--------|-----|--------|-----|--------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   | 7.23   | 0   | 255.62 | 0   | 528.95 | 0   | 796.49   | 0   | 1,066.61 | 0   | 1,339.11 | 0   | 1,611.61 | 0   | 1,884.11 | 0   | 2,156.42 | 0   | 2,428.96 |
| 1/4 | 9.13   | 1/4 | 261.32 | 1/4 | 534.64 | 1/4 | 801.98   | 1/4 | 1,072.29 | 1/4 | 1,344.79 | 1/4 | 1,617.29 | 1/4 | 1,889.79 | 1/4 | 2,162.09 | 1/4 | 2,434.65 |
| 1/2 | 11.03  | 1/2 | 267.01 | 1/2 | 540.33 | 1/2 | 807.48   | 1/2 | 1,077.96 | 1/2 | 1,350.46 | 1/2 | 1,622.97 | 1/2 | 1,895.47 | 1/2 | 2,167.77 | 1/2 | 2,440.33 |
| 3/4 | 12.92  | 3/4 | 272.71 | 3/4 | 546.01 | 3/4 | 812.98   | 3/4 | 1,083.64 | 3/4 | 1,356.14 | 3/4 | 1,628.64 | 3/4 | 1,901.14 | 3/4 | 2,173.44 | 3/4 | 2,446.01 |
| 1   | 14.82  | 1   | 278.40 | 1   | 551.70 | 1   | 818.47   | 1   | 1,089.32 | 1   | 1,361.82 | 1   | 1,634.32 | 1   | 1,906.82 | 1   | 2,179.11 | 1   | 2,451.69 |
| 1/4 | 18.62  | 1/4 | 284.10 | 1/4 | 557.38 | 1/4 | 823.97   | 1/4 | 1,095.00 | 1/4 | 1,367.50 | 1/4 | 1,640.00 | 1/4 | 1,912.50 | 1/4 | 2,184.79 | 1/4 | 2,457.37 |
| 1/2 | 22.41  | 1/2 | 289.79 | 1/2 | 563.06 | 1/2 | 829.47   | 1/2 | 1,100.67 | 1/2 | 1,373.17 | 1/2 | 1,645.67 | 1/2 | 1,918.17 | 1/2 | 2,190.46 | 1/2 | 2,463.05 |
| 3/4 | 26.21  | 3/4 | 295.49 | 3/4 | 568.75 | 3/4 | 834.96   | 3/4 | 1,106.35 | 3/4 | 1,378.85 | 3/4 | 1,651.35 | 3/4 | 1,923.85 | 3/4 | 2,196.14 | 3/4 | 2,468.73 |
| 2   | 30.00  | 2   | 301.18 | 2   | 574.43 | 2   | 840.46   | 2   | 1,112.03 | 2   | 1,384.53 | 2   | 1,657.03 | 2   | 1,929.53 | 2   | 2,201.82 | 2   | 2,474.41 |
| 1/4 | 35.20  | 1/4 | 306.87 | 1/4 | 580.11 | 1/4 | 845.98   | 1/4 | 1,117.70 | 1/4 | 1,390.20 | 1/4 | 1,662.71 | 1/4 | 1,935.21 | 1/4 | 2,207.49 | 1/4 | 2,480.09 |
| 1/2 | 40.39  | 1/2 | 312.57 | 1/2 | 585.80 | 1/2 | 851.49   | 1/2 | 1,123.38 | 1/2 | 1,395.88 | 1/2 | 1,668.38 | 1/2 | 1,940.88 | 1/2 | 2,213.17 | 1/2 | 2,485.77 |
| 3/4 | 45.59  | 3/4 | 318.26 | 3/4 | 591.48 | 3/4 | 857.01   | 3/4 | 1,129.06 | 3/4 | 1,401.56 | 3/4 | 1,674.06 | 3/4 | 1,946.56 | 3/4 | 2,218.85 | 3/4 | 2,491.45 |
| 3   | 50.78  | 3   | 323.96 | 3   | 597.16 | 3   | 862.52   | 3   | 1,134.73 | 3   | 1,407.24 | 3   | 1,679.74 | 3   | 1,952.24 | 3   | 2,224.53 | 3   | 2,497.13 |
| 1/4 | 56.44  | 1/4 | 329.65 | 1/4 | 602.84 | 1/4 | 868.13   | 1/4 | 1,140.41 | 1/4 | 1,412.91 | 1/4 | 1,685.41 | 1/4 | 1,957.91 | 1/4 | 2,230.21 | 1/4 | 2,502.81 |
| 1/2 | 62.11  | 1/2 | 335.35 | 1/2 | 608.51 | 1/2 | 873.73   | 1/2 | 1,146.09 | 1/2 | 1,418.59 | 1/2 | 1,691.09 | 1/2 | 1,963.58 | 1/2 | 2,235.89 | 1/2 | 2,508.50 |
| 3/4 | 67.77  | 3/4 | 341.04 | 3/4 | 614.18 | 3/4 | 879.34   | 3/4 | 1,151.77 | 3/4 | 1,424.27 | 3/4 | 1,696.77 | 3/4 | 1,969.25 | 3/4 | 2,241.57 | 3/4 | 2,514.18 |
| 4   | 73.43  | 4   | 346.74 | 4   | 619.86 | 4   | 884.94   | 4   | 1,157.44 | 4   | 1,429.94 | 4   | 1,702.44 | 4   | 1,974.92 | 4   | 2,247.24 | 4   | 2,519.86 |
| 1/4 | 79.12  | 1/4 | 352.43 | 1/4 | 625.52 | 1/4 | 890.62   | 1/4 | 1,163.12 | 1/4 | 1,435.62 | 1/4 | 1,708.12 | 1/4 | 1,980.59 | 1/4 | 2,252.92 | 1/4 | 2,525.54 |
| 1/2 | 84.80  | 1/2 | 358.13 | 1/2 | 631.19 | 1/2 | 896.30   | 1/2 | 1,168.80 | 1/2 | 1,441.30 | 1/2 | 1,713.80 | 1/2 | 1,986.26 | 1/2 | 2,258.60 | 1/2 | 2,531.22 |
| 3/4 | 90.49  | 3/4 | 363.82 | 3/4 | 636.85 | 3/4 | 901.97   | 3/4 | 1,174.47 | 3/4 | 1,446.98 | 3/4 | 1,719.48 | 3/4 | 1,991.94 | 3/4 | 2,264.27 | 3/4 | 2,536.90 |
| 5   | 96.18  | 5   | 369.51 | 5   | 642.52 | 5   | 907.65   | 5   | 1,180.15 | 5   | 1,452.65 | 5   | 1,725.15 | 5   | 1,997.61 | 5   | 2,269.95 | 5   | 2,542.58 |
| 1/4 | 101.87 | 1/4 | 375.21 | 1/4 | 648.11 | 1/4 | 913.33   | 1/4 | 1,185.83 | 1/4 | 1,458.33 | 1/4 | 1,730.83 | 1/4 | 2,003.28 | 1/4 | 2,275.63 | 1/4 | 2,548.26 |
| 1/2 | 107.56 | 1/2 | 380.90 | 1/2 | 653.70 | 1/2 | 919.00   | 1/2 | 1,191.51 | 1/2 | 1,464.01 | 1/2 | 1,736.51 | 1/2 | 2,008.95 | 1/2 | 2,281.31 | 1/2 | 2,553.94 |
| 3/4 | 113.26 | 3/4 | 386.60 | 3/4 | 659.29 | 3/4 | 924.68   | 3/4 | 1,197.18 | 3/4 | 1,469.68 | 3/4 | 1,742.18 | 3/4 | 2,014.62 | 3/4 | 2,286.98 | 3/4 | 2,559.62 |
| 6   | 118.95 | 6   | 392.29 | 6   | 664.88 | 6   | 930.36   | 6   | 1,202.86 | 6   | 1,475.36 | 6   | 1,747.86 | 6   | 2,020.30 | 6   | 2,292.66 | 6   | 2,565.30 |
| 1/4 | 124.65 | 1/4 | 397.99 | 1/4 | 670.38 | 1/4 | 936.04   | 1/4 | 1,208.54 | 1/4 | 1,481.04 | 1/4 | 1,753.54 | 1/4 | 2,025.97 | 1/4 | 2,298.34 | 1/4 | 2,570.98 |
| 1/2 | 130.34 | 1/2 | 403.68 | 1/2 | 675.87 | 1/2 | 941.71   | 1/2 | 1,214.21 | 1/2 | 1,486.72 | 1/2 | 1,759.22 | 1/2 | 2,031.64 | 1/2 | 2,304.02 | 1/2 | 2,576.67 |
| 3/4 | 136.04 | 3/4 | 409.38 | 3/4 | 681.37 | 3/4 | 947.39   | 3/4 | 1,219.89 | 3/4 | 1,492.39 | 3/4 | 1,764.89 | 3/4 | 2,037.31 | 3/4 | 2,309.69 | 3/4 | 2,582.35 |
| 7   | 141.73 | 7   | 415.07 | 7   | 686.87 | 7   | 953.07   | 7   | 1,225.57 | 7   | 1,498.07 | 7   | 1,770.57 | 7   | 2,042.98 | 7   | 2,315.37 | 7   | 2,588.03 |
| 1/4 | 147.43 | 1/4 | 420.77 | 1/4 | 692.35 | 1/4 | 958.74   | 1/4 | 1,231.25 | 1/4 | 1,503.75 | 1/4 | 1,776.25 | 1/4 | 2,048.66 | 1/4 | 2,321.05 | 1/4 | 2,593.71 |
| 1/2 | 153.12 | 1/2 | 426.46 | 1/2 | 697.83 | 1/2 | 964.42   | 1/2 | 1,236.92 | 1/2 | 1,509.42 | 1/2 | 1,781.92 | 1/2 | 2,054.33 | 1/2 | 2,326.72 | 1/2 | 2,599.39 |
| 3/4 | 158.81 | 3/4 | 432.16 | 3/4 | 703.31 | 3/4 | 970.10   | 3/4 | 1,242.60 | 3/4 | 1,515.10 | 3/4 | 1,787.60 | 3/4 | 2,060.00 | 3/4 | 2,332.40 | 3/4 | 2,605.07 |
| 8   | 164.51 | 8   | 437.85 | 8   | 708.79 | 8   | 975.78   | 8   | 1,248.28 | 8   | 1,520.78 | 8   | 1,793.28 | 8   | 2,065.67 | 8   | 2,338.08 | 8   | 2,610.75 |
| 1/4 | 170.20 | 1/4 | 443.54 | 1/4 | 714.26 | 1/4 | 981.45   | 1/4 | 1,253.95 | 1/4 | 1,526.45 | 1/4 | 1,798.96 | 1/4 | 2,071.34 | 1/4 | 2,343.76 | 1/4 | 2,616.43 |
| 1/2 | 175.90 | 1/2 | 449.24 | 1/2 | 719.74 | 1/2 | 987.13   | 1/2 | 1,259.63 | 1/2 | 1,532.13 | 1/2 | 1,804.63 | 1/2 | 2,077.01 | 1/2 | 2,349.44 | 1/2 | 2,622.11 |
| 3/4 | 181.59 | 3/4 | 454.93 | 3/4 | 725.22 | 3/4 | 992.81   | 3/4 | 1,265.31 | 3/4 | 1,537.81 | 3/4 | 1,810.31 | 3/4 | 2,082.69 | 3/4 | 2,355.12 | 3/4 | 2,627.79 |
| 9   | 187.29 | 9   | 460.63 | 9   | 730.70 | 9   | 998.48   | 9   | 1,270.99 | 9   | 1,543.49 | 9   | 1,815.99 | 9   | 2,088.36 | 9   | 2,360.79 | 9   | 2,633.47 |
| 1/4 | 192.98 | 1/4 | 466.32 | 1/4 | 736.18 | 1/4 | 1,004.16 | 1/4 | 1,276.66 | 1/4 | 1,549.16 | 1/4 | 1,821.66 | 1/4 | 2,094.03 | 1/4 | 2,366.48 | 1/4 | 2,639.15 |
| 1/2 | 198.68 | 1/2 | 472.02 | 1/2 | 741.66 | 1/2 | 1,009.84 | 1/2 | 1,282.34 | 1/2 | 1,554.84 | 1/2 | 1,827.34 | 1/2 | 2,099.70 | 1/2 | 2,372.16 | 1/2 | 2,644.83 |
| 3/4 | 204.37 | 3/4 | 477.71 | 3/4 | 747.14 | 3/4 | 1,015.52 | 3/4 | 1,288.02 | 3/4 | 1,560.52 | 3/4 | 1,833.02 | 3/4 | 2,105.37 | 3/4 | 2,377.84 | 3/4 | 2,650.52 |
| 10  | 210.07 | 10  | 483.41 | 10  | 752.62 | 10  | 1,021.19 | 10  | 1,293.69 | 10  | 1,566.19 | 10  | 1,838.70 | 10  | 2,111.05 | 10  | 2,383.52 | 10  | 2,656.20 |
| 1/4 | 215.76 | 1/4 | 489.10 | 1/4 | 758.10 | 1/4 | 1,026.87 | 1/4 | 1,299.37 | 1/4 | 1,571.87 | 1/4 | 1,844.37 | 1/4 | 2,116.72 | 1/4 | 2,389.20 | 1/4 | 2,661.88 |
| 1/2 | 221.46 | 1/2 | 494.80 | 1/2 | 763.58 | 1/2 | 1,032.55 | 1/2 | 1,305.05 | 1/2 | 1,577.55 | 1/2 | 1,850.05 | 1/2 | 2,122.39 | 1/2 | 2,394.88 | 1/2 | 2,667.56 |
| 3/4 | 227.15 | 3/4 | 500.49 | 3/4 | 769.06 | 3/4 | 1,038.22 | 3/4 | 1,310.72 | 3/4 | 1,583.23 | 3/4 | 1,855.73 | 3/4 | 2,128.06 | 3/4 | 2,400.56 | 3/4 | 2,673.24 |
| 11  | 232.84 | 11  | 506.19 | 11  | 774.53 | 11  | 1,043.90 | 11  | 1,316.40 | 11  | 1,588.90 | 11  | 1,861.40 | 11  | 2,133.73 | 11  | 2,406.24 | 11  | 2,678.92 |
| 1/4 | 238.54 | 1/4 | 511.88 | 1/4 | 780.02 | 1/4 | 1,049.58 | 1/4 | 1,322.08 | 1/4 | 1,594.58 | 1/4 | 1,867.08 | 1/4 | 2,139.41 | 1/4 | 2,411.92 | 1/4 | 2,684.60 |
| 1/2 | 244.23 | 1/2 | 517.57 | 1/2 | 785.51 | 1/2 | 1,055.26 | 1/2 | 1,327.76 | 1/2 | 1,600.26 | 1/2 | 1,872.76 | 1/2 | 2,145.08 | 1/2 | 2,417.60 | 1/2 | 2,690.28 |
| 3/4 | 249.93 | 3/4 | 523.26 | 3/4 | 791.00 | 3/4 | 1,060.93 | 3/4 | 1,333.43 | 3/4 | 1,605.93 | 3/4 | 1,878.43 | 3/4 | 2,150.75 | 3/4 | 2,423.28 | 3/4 | 2,695.96 |

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "HFL 230SS"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 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   | 2,701.64 | 0   | 2,974.58 | 0   | 3,219.01 | 0   | 3,438.97 | 0   | 3,658.93 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,707.32 | 1/4 | 2,980.27 | 1/4 | 3,223.60 | 1/4 | 3,443.56 | 1/4 | 3,663.52 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,713.00 | 1/2 | 2,985.97 | 1/2 | 3,228.18 | 1/2 | 3,448.14 | 1/2 | 3,668.10 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,718.69 | 3/4 | 2,991.66 | 3/4 | 3,232.76 | 3/4 | 3,452.72 | 3/4 | 3,672.68 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,724.37 | 1   | 2,997.36 | 1   | 3,237.34 | 1   | 3,457.30 | 1   | 3,677.26 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,730.05 | 1/4 | 3,003.05 | 1/4 | 3,241.93 | 1/4 | 3,461.89 | 1/4 | 3,681.85 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,735.73 | 1/2 | 3,008.75 | 1/2 | 3,246.51 | 1/2 | 3,466.47 | 1/2 | 3,686.43 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,741.41 | 3/4 | 3,014.44 | 3/4 | 3,251.09 | 3/4 | 3,471.05 | 3/4 | 3,691.01 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,747.09 | 2   | 3,020.14 | 2   | 3,255.67 | 2   | 3,475.63 | 2   | 3,695.59 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,752.77 | 1/4 | 3,025.83 | 1/4 | 3,260.26 | 1/4 | 3,480.22 | 1/4 | 3,700.16 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,758.45 | 1/2 | 3,031.53 | 1/2 | 3,264.84 | 1/2 | 3,484.80 | 1/2 | 3,704.74 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,764.13 | 3/4 | 3,037.22 | 3/4 | 3,269.42 | 3/4 | 3,489.38 | 3/4 | 3,709.31 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,769.81 | 3   | 3,042.92 | 3   | 3,274.00 | 3   | 3,493.96 | 3   | 3,713.89 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,775.49 | 1/4 | 3,048.61 | 1/4 | 3,278.59 | 1/4 | 3,498.55 | 1/4 | 3,718.44 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,781.17 | 1/2 | 3,054.31 | 1/2 | 3,283.17 | 1/2 | 3,503.13 | 1/2 | 3,722.99 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,786.85 | 3/4 | 3,060.00 | 3/4 | 3,287.75 | 3/4 | 3,507.71 | 3/4 | 3,727.54 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,792.54 | 4   | 3,065.70 | 4   | 3,292.33 | 4   | 3,512.29 | 4   | 3,732.09 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,798.22 | 1/4 | 3,071.39 | 1/4 | 3,296.92 | 1/4 | 3,516.88 | 1/4 | 3,736.17 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,803.90 | 1/2 | 3,077.09 | 1/2 | 3,301.50 | 1/2 | 3,521.46 | 1/2 | 3,740.25 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,809.58 | 3/4 | 3,082.78 | 3/4 | 3,306.08 | 3/4 | 3,526.04 | 3/4 | 3,744.33 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,815.26 | 5   | 3,088.48 | 5   | 3,310.66 | 5   | 3,530.62 | 5   | 3,748.42 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,820.94 | 1/4 | 3,093.62 | 1/4 | 3,315.25 | 1/4 | 3,535.21 | 1/4 | 3,751.66 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,826.62 | 1/2 | 3,098.76 | 1/2 | 3,319.83 | 1/2 | 3,539.79 | 1/2 | 3,754.90 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,832.30 | 3/4 | 3,103.90 | 3/4 | 3,324.41 | 3/4 | 3,544.37 | 3/4 | 3,758.13 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,837.98 | 6   | 3,109.03 | 6   | 3,328.99 | 6   | 3,548.95 | 6   | 3,761.37 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,843.66 | 1/4 | 3,113.62 | 1/4 | 3,333.58 | 1/4 | 3,553.54 | 1/4 | 3,763.27 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,849.34 | 1/2 | 3,118.20 | 1/2 | 3,338.16 | 1/2 | 3,558.12 | 1/2 | 3,765.17 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,855.02 | 3/4 | 3,122.78 | 3/4 | 3,342.74 | 3/4 | 3,562.70 | 3/4 | 3,767.07 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,860.71 | 7   | 3,127.36 | 7   | 3,347.32 | 7   | 3,567.28 | 7   | 3,768.97 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,866.39 | 1/4 | 3,131.95 | 1/4 | 3,351.91 | 1/4 | 3,571.87 | 1/4 | 3,769.92 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,872.08 | 1/2 | 3,136.53 | 1/2 | 3,356.49 | 1/2 | 3,576.45 | 1/2 | 3,770.87 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,877.77 | 3/4 | 3,141.11 | 3/4 | 3,361.07 | 3/4 | 3,581.03 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,883.46 | 8   | 3,145.69 | 8   | 3,365.65 | 8   | 3,585.61 | 8   |          | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,889.15 | 1/4 | 3,150.28 | 1/4 | 3,370.24 | 1/4 | 3,590.20 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,894.85 | 1/2 | 3,154.86 | 1/2 | 3,374.82 | 1/2 | 3,594.78 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,900.54 | 3/4 | 3,159.44 | 3/4 | 3,379.40 | 3/4 | 3,599.36 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,906.24 | 9   | 3,164.02 | 9   | 3,383.98 | 9   | 3,603.94 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,911.93 | 1/4 | 3,168.61 | 1/4 | 3,388.57 | 1/4 | 3,608.53 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,917.63 | 1/2 | 3,173.19 | 1/2 | 3,393.15 | 1/2 | 3,613.11 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,923.32 | 3/4 | 3,177.77 | 3/4 | 3,397.73 | 3/4 | 3,617.69 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,929.02 | 10  | 3,182.35 | 10  | 3,402.31 | 10  | 3,622.27 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,934.71 | 1/4 | 3,186.94 | 1/4 | 3,406.90 | 1/4 | 3,626.86 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,940.41 | 1/2 | 3,191.52 | 1/2 | 3,411.48 | 1/2 | 3,631.44 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,946.10 | 3/4 | 3,196.10 | 3/4 | 3,416.06 | 3/4 | 3,636.02 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 2,951.80 | 11  | 3,200.68 | 11  | 3,420.64 | 11  | 3,640.60 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 2,957.49 | 1/4 | 3,205.27 | 1/4 | 3,425.23 | 1/4 | 3,645.19 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,963.19 | 1/2 | 3,209.85 | 1/2 | 3,429.81 | 1/2 | 3,649.77 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,968.88 | 3/4 | 3,214.43 | 3/4 | 3,434.39 | 3/4 | 3,654.35 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

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



# BARGE "HFL 230SS"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 1/4"

| IN  | 0 FT.  | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   | 2.35   | 0   | 227.60 | 0   | 475.47 | 0   | 719.18 | 0   | 964.84   | 0   | 1,212.73 | 0   | 1,460.62 | 0   | 1,708.50 | 0   | 1,956.39 | 0   | 2,204.28 |
| 1/4 | 4.07   | 1/4 | 232.76 | 1/4 | 480.63 | 1/4 | 724.19 | 1/4 | 970.01   | 1/4 | 1,217.90 | 1/4 | 1,465.78 | 1/4 | 1,713.67 | 1/4 | 1,961.55 | 1/4 | 2,209.44 |
| 1/2 | 5.79   | 1/2 | 237.92 | 1/2 | 485.80 | 1/2 | 729.19 | 1/2 | 975.17   | 1/2 | 1,223.06 | 1/2 | 1,470.95 | 1/2 | 1,718.83 | 1/2 | 1,966.72 | 1/2 | 2,214.61 |
| 3/4 | 7.51   | 3/4 | 243.09 | 3/4 | 490.96 | 3/4 | 734.19 | 3/4 | 980.34   | 3/4 | 1,228.22 | 3/4 | 1,476.11 | 3/4 | 1,724.00 | 3/4 | 1,971.88 | 3/4 | 2,219.77 |
| 1   | 9.23   | 1   | 248.25 | 1   | 496.12 | 1   | 739.19 | 1   | 985.50   | 1   | 1,233.39 | 1   | 1,481.27 | 1   | 1,729.16 | 1   | 1,977.05 | 1   | 2,224.93 |
| 1/4 | 12.67  | 1/4 | 253.42 | 1/4 | 501.29 | 1/4 | 744.20 | 1/4 | 990.67   | 1/4 | 1,238.55 | 1/4 | 1,486.44 | 1/4 | 1,734.33 | 1/4 | 1,982.21 | 1/4 | 2,230.10 |
| 1/2 | 16.11  | 1/2 | 258.58 | 1/2 | 506.45 | 1/2 | 749.20 | 1/2 | 995.83   | 1/2 | 1,243.72 | 1/2 | 1,491.60 | 1/2 | 1,739.49 | 1/2 | 1,987.38 | 1/2 | 2,235.26 |
| 3/4 | 19.56  | 3/4 | 263.74 | 3/4 | 511.62 | 3/4 | 754.20 | 3/4 | 1,000.99 | 3/4 | 1,248.88 | 3/4 | 1,496.77 | 3/4 | 1,744.65 | 3/4 | 1,992.54 | 3/4 | 2,240.43 |
| 2   | 23.00  | 2   | 268.91 | 2   | 516.78 | 2   | 759.20 | 2   | 1,006.16 | 2   | 1,254.05 | 2   | 1,501.93 | 2   | 1,749.82 | 2   | 1,997.70 | 2   | 2,245.59 |
| 1/4 | 27.71  | 1/4 | 274.07 | 1/4 | 521.94 | 1/4 | 764.21 | 1/4 | 1,011.32 | 1/4 | 1,259.21 | 1/4 | 1,507.10 | 1/4 | 1,754.98 | 1/4 | 2,002.87 | 1/4 | 2,250.76 |
| 1/2 | 32.42  | 1/2 | 279.24 | 1/2 | 527.11 | 1/2 | 769.22 | 1/2 | 1,016.49 | 1/2 | 1,264.37 | 1/2 | 1,512.26 | 1/2 | 1,760.15 | 1/2 | 2,008.03 | 1/2 | 2,255.92 |
| 3/4 | 37.13  | 3/4 | 284.40 | 3/4 | 532.27 | 3/4 | 774.22 | 3/4 | 1,021.65 | 3/4 | 1,269.54 | 3/4 | 1,517.42 | 3/4 | 1,765.31 | 3/4 | 2,013.20 | 3/4 | 2,261.08 |
| 3   | 41.84  | 3   | 289.56 | 3   | 537.44 | 3   | 779.23 | 3   | 1,026.82 | 3   | 1,274.70 | 3   | 1,522.59 | 3   | 1,770.48 | 3   | 2,018.36 | 3   | 2,266.25 |
| 1/4 | 46.97  | 1/4 | 294.73 | 1/4 | 542.60 | 1/4 | 784.32 | 1/4 | 1,031.98 | 1/4 | 1,279.87 | 1/4 | 1,527.75 | 1/4 | 1,775.64 | 1/4 | 2,023.53 | 1/4 | 2,271.41 |
| 1/2 | 52.11  | 1/2 | 299.89 | 1/2 | 547.76 | 1/2 | 789.41 | 1/2 | 1,037.14 | 1/2 | 1,285.03 | 1/2 | 1,532.92 | 1/2 | 1,780.80 | 1/2 | 2,028.69 | 1/2 | 2,276.58 |
| 3/4 | 57.24  | 3/4 | 305.06 | 3/4 | 552.93 | 3/4 | 794.50 | 3/4 | 1,042.31 | 3/4 | 1,290.20 | 3/4 | 1,538.08 | 3/4 | 1,785.97 | 3/4 | 2,033.85 | 3/4 | 2,281.74 |
| 4   | 62.38  | 4   | 310.22 | 4   | 558.09 | 4   | 799.59 | 4   | 1,047.47 | 4   | 1,295.36 | 4   | 1,543.25 | 4   | 1,791.13 | 4   | 2,039.02 | 4   | 2,286.91 |
| 1/4 | 67.54  | 1/4 | 315.38 | 1/4 | 563.26 | 1/4 | 804.75 | 1/4 | 1,052.64 | 1/4 | 1,300.52 | 1/4 | 1,548.41 | 1/4 | 1,796.30 | 1/4 | 2,044.18 | 1/4 | 2,292.07 |
| 1/2 | 72.69  | 1/2 | 320.55 | 1/2 | 568.42 | 1/2 | 809.92 | 1/2 | 1,057.80 | 1/2 | 1,305.69 | 1/2 | 1,553.57 | 1/2 | 1,801.46 | 1/2 | 2,049.35 | 1/2 | 2,297.23 |
| 3/4 | 77.85  | 3/4 | 325.71 | 3/4 | 573.58 | 3/4 | 815.08 | 3/4 | 1,062.97 | 3/4 | 1,310.85 | 3/4 | 1,558.74 | 3/4 | 1,806.63 | 3/4 | 2,054.51 | 3/4 | 2,302.40 |
| 5   | 83.01  | 5   | 330.88 | 5   | 578.75 | 5   | 820.24 | 5   | 1,068.13 | 5   | 1,316.02 | 5   | 1,563.90 | 5   | 1,811.79 | 5   | 2,059.68 | 5   | 2,307.56 |
| 1/4 | 88.17  | 1/4 | 336.04 | 1/4 | 583.84 | 1/4 | 825.41 | 1/4 | 1,073.30 | 1/4 | 1,321.18 | 1/4 | 1,569.07 | 1/4 | 1,816.95 | 1/4 | 2,064.84 | 1/4 | 2,312.73 |
| 1/2 | 93.33  | 1/2 | 341.20 | 1/2 | 588.93 | 1/2 | 830.57 | 1/2 | 1,078.46 | 1/2 | 1,326.35 | 1/2 | 1,574.23 | 1/2 | 1,822.12 | 1/2 | 2,070.00 | 1/2 | 2,317.89 |
| 3/4 | 98.50  | 3/4 | 346.37 | 3/4 | 594.02 | 3/4 | 835.74 | 3/4 | 1,083.62 | 3/4 | 1,331.51 | 3/4 | 1,579.40 | 3/4 | 1,827.28 | 3/4 | 2,075.17 | 3/4 | 2,323.06 |
| 6   | 103.66 | 6   | 351.53 | 6   | 599.11 | 6   | 840.90 | 6   | 1,088.79 | 6   | 1,336.67 | 6   | 1,584.56 | 6   | 1,832.45 | 6   | 2,080.33 | 6   | 2,328.22 |
| 1/4 | 108.82 | 1/4 | 356.70 | 1/4 | 604.11 | 1/4 | 846.07 | 1/4 | 1,093.95 | 1/4 | 1,341.84 | 1/4 | 1,589.72 | 1/4 | 1,837.61 | 1/4 | 2,085.50 | 1/4 | 2,333.38 |
| 1/2 | 113.99 | 1/2 | 361.86 | 1/2 | 609.12 | 1/2 | 851.23 | 1/2 | 1,099.12 | 1/2 | 1,347.00 | 1/2 | 1,594.89 | 1/2 | 1,842.78 | 1/2 | 2,090.66 | 1/2 | 2,338.55 |
| 3/4 | 119.15 | 3/4 | 367.02 | 3/4 | 614.13 | 3/4 | 856.39 | 3/4 | 1,104.28 | 3/4 | 1,352.17 | 3/4 | 1,600.05 | 3/4 | 1,847.94 | 3/4 | 2,095.83 | 3/4 | 2,343.71 |
| 7   | 124.32 | 7   | 372.19 | 7   | 619.14 | 7   | 861.56 | 7   | 1,109.45 | 7   | 1,357.33 | 7   | 1,605.22 | 7   | 1,853.10 | 7   | 2,100.99 | 7   | 2,348.88 |
| 1/4 | 129.48 | 1/4 | 377.35 | 1/4 | 624.14 | 1/4 | 866.72 | 1/4 | 1,114.61 | 1/4 | 1,362.50 | 1/4 | 1,610.38 | 1/4 | 1,858.27 | 1/4 | 2,106.15 | 1/4 | 2,354.04 |
| 1/2 | 134.64 | 1/2 | 382.52 | 1/2 | 629.14 | 1/2 | 871.89 | 1/2 | 1,119.77 | 1/2 | 1,367.66 | 1/2 | 1,615.55 | 1/2 | 1,863.43 | 1/2 | 2,111.32 | 1/2 | 2,359.21 |
| 3/4 | 139.81 | 3/4 | 387.68 | 3/4 | 634.14 | 3/4 | 877.05 | 3/4 | 1,124.94 | 3/4 | 1,372.82 | 3/4 | 1,620.71 | 3/4 | 1,868.60 | 3/4 | 2,116.48 | 3/4 | 2,364.37 |
| 8   | 144.97 | 8   | 392.84 | 8   | 639.15 | 8   | 882.22 | 8   | 1,130.10 | 8   | 1,377.99 | 8   | 1,625.88 | 8   | 1,873.76 | 8   | 2,121.65 | 8   | 2,369.53 |
| 1/4 | 150.14 | 1/4 | 398.01 | 1/4 | 644.15 | 1/4 | 887.38 | 1/4 | 1,135.27 | 1/4 | 1,383.15 | 1/4 | 1,631.04 | 1/4 | 1,878.93 | 1/4 | 2,126.81 | 1/4 | 2,374.70 |
| 1/2 | 155.30 | 1/2 | 403.17 | 1/2 | 649.15 | 1/2 | 892.54 | 1/2 | 1,140.43 | 1/2 | 1,388.32 | 1/2 | 1,636.20 | 1/2 | 1,884.09 | 1/2 | 2,131.98 | 1/2 | 2,379.86 |
| 3/4 | 160.46 | 3/4 | 408.34 | 3/4 | 654.15 | 3/4 | 897.71 | 3/4 | 1,145.60 | 3/4 | 1,393.48 | 3/4 | 1,641.37 | 3/4 | 1,889.25 | 3/4 | 2,137.14 | 3/4 | 2,385.03 |
| 9   | 165.63 | 9   | 413.50 | 9   | 659.16 | 9   | 902.87 | 9   | 1,150.76 | 9   | 1,398.65 | 9   | 1,646.53 | 9   | 1,894.42 | 9   | 2,142.31 | 9   | 2,390.19 |
| 1/4 | 170.79 | 1/4 | 418.66 | 1/4 | 664.16 | 1/4 | 908.04 | 1/4 | 1,155.92 | 1/4 | 1,403.81 | 1/4 | 1,651.70 | 1/4 | 1,899.58 | 1/4 | 2,147.47 | 1/4 | 2,395.36 |
| 1/2 | 175.96 | 1/2 | 423.83 | 1/2 | 669.16 | 1/2 | 913.20 | 1/2 | 1,161.09 | 1/2 | 1,408.97 | 1/2 | 1,656.86 | 1/2 | 1,904.75 | 1/2 | 2,152.63 | 1/2 | 2,400.52 |
| 3/4 | 181.12 | 3/4 | 428.99 | 3/4 | 674.16 | 3/4 | 918.37 | 3/4 | 1,166.25 | 3/4 | 1,414.14 | 3/4 | 1,662.03 | 3/4 | 1,909.91 | 3/4 | 2,157.80 | 3/4 | 2,405.68 |
| 10  | 186.28 | 10  | 434.16 | 10  | 679.17 | 10  | 923.53 | 10  | 1,171.42 | 10  | 1,419.30 | 10  | 1,667.19 | 10  | 1,915.08 | 10  | 2,162.96 | 10  | 2,410.85 |
| 1/4 | 191.45 | 1/4 | 439.32 | 1/4 | 684.17 | 1/4 | 928.69 | 1/4 | 1,176.58 | 1/4 | 1,424.47 | 1/4 | 1,672.35 | 1/4 | 1,920.24 | 1/4 | 2,168.13 | 1/4 | 2,416.01 |
| 1/2 | 196.61 | 1/2 | 444.48 | 1/2 | 689.17 | 1/2 | 933.86 | 1/2 | 1,181.75 | 1/2 | 1,429.63 | 1/2 | 1,677.52 | 1/2 | 1,925.40 | 1/2 | 2,173.29 | 1/2 | 2,421.18 |
| 3/4 | 201.78 | 3/4 | 449.65 | 3/4 | 694.17 | 3/4 | 939.02 | 3/4 | 1,186.91 | 3/4 | 1,434.80 | 3/4 | 1,682.68 | 3/4 | 1,930.57 | 3/4 | 2,178.46 | 3/4 | 2,426.34 |
| 11  | 206.94 | 11  | 454.81 | 11  | 699.17 | 11  | 944.19 | 11  | 1,192.07 | 11  | 1,439.96 | 11  | 1,687.85 | 11  | 1,935.73 | 11  | 2,183.62 | 11  | 2,431.51 |
| 1/4 | 212.10 | 1/4 | 459.98 | 1/4 | 704.18 | 1/4 | 949.35 | 1/4 | 1,197.24 | 1/4 | 1,445.12 | 1/4 | 1,693.01 | 1/4 | 1,940.90 | 1/4 | 2,188.78 | 1/4 | 2,436.67 |
| 1/2 | 217.27 | 1/2 | 465.14 | 1/2 | 709.18 | 1/2 | 954.52 | 1/2 | 1,202.40 | 1/2 | 1,450.29 | 1/2 | 1,698.18 | 1/2 | 1,946.06 | 1/2 | 2,193.95 | 1/2 | 2,441.83 |
| 3/4 | 222.43 | 3/4 | 470.30 | 3/4 | 714.18 | 3/4 | 959.68 | 3/4 | 1,207.57 | 3/4 | 1,455.45 | 3/4 | 1,703.34 | 3/4 | 1,951.23 | 3/4 | 2,199.11 | 3/4 | 2,447.00 |

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 230SS"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 1/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT.   | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,452.16 | 0   | 2,700.05 | 0   | 2,947.94 | 0   | 3,195.82 | 0   | 3,443.71 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,457.33 | 1/4 | 2,705.21 | 1/4 | 2,953.10 | 1/4 | 3,200.99 | 1/4 | 3,448.87 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,462.49 | 1/2 | 2,710.38 | 1/2 | 2,958.26 | 1/2 | 3,206.15 | 1/2 | 3,454.04 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,467.66 | 3/4 | 2,715.54 | 3/4 | 2,963.43 | 3/4 | 3,211.32 | 3/4 | 3,459.20 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,472.82 | 1   | 2,720.71 | 1   | 2,968.59 | 1   | 3,216.48 | 1   | 3,464.37 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,477.98 | 1/4 | 2,725.87 | 1/4 | 2,973.76 | 1/4 | 3,221.64 | 1/4 | 3,469.53 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,483.15 | 1/2 | 2,731.04 | 1/2 | 2,978.92 | 1/2 | 3,226.81 | 1/2 | 3,474.68 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,488.31 | 3/4 | 2,736.20 | 3/4 | 2,984.09 | 3/4 | 3,231.97 | 3/4 | 3,479.84 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,493.48 | 2   | 2,741.36 | 2   | 2,989.25 | 2   | 3,237.14 | 2   | 3,485.00 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,498.64 | 1/4 | 2,746.53 | 1/4 | 2,994.41 | 1/4 | 3,242.30 | 1/4 | 3,490.16 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,503.81 | 1/2 | 2,751.69 | 1/2 | 2,999.58 | 1/2 | 3,247.47 | 1/2 | 3,495.32 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,508.97 | 3/4 | 2,756.86 | 3/4 | 3,004.74 | 3/4 | 3,252.63 | 3/4 | 3,500.47 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,514.13 | 3   | 2,762.02 | 3   | 3,009.91 | 3   | 3,257.79 | 3   | 3,505.63 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,519.30 | 1/4 | 2,767.19 | 1/4 | 3,015.07 | 1/4 | 3,262.96 | 1/4 | 3,510.77 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,524.46 | 1/2 | 2,772.35 | 1/2 | 3,020.24 | 1/2 | 3,268.12 | 1/2 | 3,515.90 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,529.63 | 3/4 | 2,777.51 | 3/4 | 3,025.40 | 3/4 | 3,273.29 | 3/4 | 3,521.04 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,534.79 | 4   | 2,782.68 | 4   | 3,030.56 | 4   | 3,278.45 | 4   | 3,526.17 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,539.96 | 1/4 | 2,787.84 | 1/4 | 3,035.73 | 1/4 | 3,283.62 | 1/4 | 3,530.88 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,545.12 | 1/2 | 2,793.01 | 1/2 | 3,040.89 | 1/2 | 3,288.78 | 1/2 | 3,535.59 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,550.28 | 3/4 | 2,798.17 | 3/4 | 3,046.06 | 3/4 | 3,293.94 | 3/4 | 3,540.31 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,555.45 | 5   | 2,803.34 | 5   | 3,051.22 | 5   | 3,299.11 | 5   | 3,545.02 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,560.61 | 1/4 | 2,808.50 | 1/4 | 3,056.39 | 1/4 | 3,304.27 | 1/4 | 3,548.46 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,565.78 | 1/2 | 2,813.66 | 1/2 | 3,061.55 | 1/2 | 3,309.44 | 1/2 | 3,551.90 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,570.94 | 3/4 | 2,818.83 | 3/4 | 3,066.71 | 3/4 | 3,314.60 | 3/4 | 3,555.34 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,576.11 | 6   | 2,823.99 | 6   | 3,071.88 | 6   | 3,319.77 | 6   | 3,558.78 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,581.27 | 1/4 | 2,829.16 | 1/4 | 3,077.04 | 1/4 | 3,324.93 | 1/4 | 3,560.50 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,586.43 | 1/2 | 2,834.32 | 1/2 | 3,082.21 | 1/2 | 3,330.09 | 1/2 | 3,562.23 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,591.60 | 3/4 | 2,839.49 | 3/4 | 3,087.37 | 3/4 | 3,335.26 | 3/4 | 3,563.95 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,596.76 | 7   | 2,844.65 | 7   | 3,092.54 | 7   | 3,340.42 | 7   | 3,565.67 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,601.93 | 1/4 | 2,849.81 | 1/4 | 3,097.70 | 1/4 | 3,345.59 | 1/4 | 3,566.53 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,607.09 | 1/2 | 2,854.98 | 1/2 | 3,102.86 | 1/2 | 3,350.75 | 1/2 | 3,567.39 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,612.26 | 3/4 | 2,860.14 | 3/4 | 3,108.03 | 3/4 | 3,355.92 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,617.42 | 8   | 2,865.31 | 8   | 3,113.19 | 8   | 3,361.08 | 8   |          | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,622.58 | 1/4 | 2,870.47 | 1/4 | 3,118.36 | 1/4 | 3,366.24 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,627.75 | 1/2 | 2,875.64 | 1/2 | 3,123.52 | 1/2 | 3,371.41 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,632.91 | 3/4 | 2,880.80 | 3/4 | 3,128.69 | 3/4 | 3,376.57 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,638.08 | 9   | 2,885.96 | 9   | 3,133.85 | 9   | 3,381.74 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,643.24 | 1/4 | 2,891.13 | 1/4 | 3,139.01 | 1/4 | 3,386.90 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,648.41 | 1/2 | 2,896.29 | 1/2 | 3,144.18 | 1/2 | 3,392.07 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,653.57 | 3/4 | 2,901.46 | 3/4 | 3,149.34 | 3/4 | 3,397.23 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,658.74 | 10  | 2,906.62 | 10  | 3,154.51 | 10  | 3,402.39 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,663.90 | 1/4 | 2,911.79 | 1/4 | 3,159.67 | 1/4 | 3,407.56 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,669.06 | 1/2 | 2,916.95 | 1/2 | 3,164.84 | 1/2 | 3,412.72 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,674.23 | 3/4 | 2,922.11 | 3/4 | 3,170.00 | 3/4 | 3,417.89 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 2,679.39 | 11  | 2,927.28 | 11  | 3,175.17 | 11  | 3,423.05 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 2,684.56 | 1/4 | 2,932.44 | 1/4 | 3,180.33 | 1/4 | 3,428.22 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,689.72 | 1/2 | 2,937.61 | 1/2 | 3,185.49 | 1/2 | 3,433.38 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,694.89 | 3/4 | 2,942.77 | 3/4 | 3,190.66 | 3/4 | 3,438.54 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

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



# BARGE "HFL 230SS"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-11"

| IN  | 0 FT.  | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   | 2.33   | 0   | 226.02 | 0   | 472.17 | 0   | 717.89 | 0   | 963.84   | 0   | 1,210.01 | 0   | 1,456.17 | 0   | 1,702.33 | 0   | 1,948.50 | 0   | 2,194.66 |
| 1/4 | 4.04   | 1/4 | 231.15 | 1/4 | 477.30 | 1/4 | 723.00 | 1/4 | 968.97   | 1/4 | 1,215.14 | 1/4 | 1,461.30 | 1/4 | 1,707.46 | 1/4 | 1,953.62 | 1/4 | 2,199.79 |
| 1/2 | 5.75   | 1/2 | 236.28 | 1/2 | 482.43 | 1/2 | 728.11 | 1/2 | 974.10   | 1/2 | 1,220.26 | 1/2 | 1,466.43 | 1/2 | 1,712.59 | 1/2 | 1,958.75 | 1/2 | 2,204.92 |
| 3/4 | 7.46   | 3/4 | 241.40 | 3/4 | 487.56 | 3/4 | 733.22 | 3/4 | 979.23   | 3/4 | 1,225.39 | 3/4 | 1,471.56 | 3/4 | 1,717.72 | 3/4 | 1,963.88 | 3/4 | 2,210.04 |
| 1   | 9.17   | 1   | 246.53 | 1   | 492.69 | 1   | 738.33 | 1   | 984.36   | 1   | 1,230.52 | 1   | 1,476.68 | 1   | 1,722.85 | 1   | 1,969.01 | 1   | 2,215.17 |
| 1/4 | 12.59  | 1/4 | 251.66 | 1/4 | 497.81 | 1/4 | 743.44 | 1/4 | 989.49   | 1/4 | 1,235.65 | 1/4 | 1,481.81 | 1/4 | 1,727.98 | 1/4 | 1,974.14 | 1/4 | 2,220.30 |
| 1/2 | 16.00  | 1/2 | 256.79 | 1/2 | 502.94 | 1/2 | 748.55 | 1/2 | 994.61   | 1/2 | 1,240.78 | 1/2 | 1,486.94 | 1/2 | 1,733.10 | 1/2 | 1,979.27 | 1/2 | 2,225.43 |
| 3/4 | 19.42  | 3/4 | 261.92 | 3/4 | 508.07 | 3/4 | 753.66 | 3/4 | 999.74   | 3/4 | 1,245.91 | 3/4 | 1,492.07 | 3/4 | 1,738.23 | 3/4 | 1,984.40 | 3/4 | 2,230.56 |
| 2   | 22.84  | 2   | 267.04 | 2   | 513.20 | 2   | 758.77 | 2   | 1,004.87 | 2   | 1,251.03 | 2   | 1,497.20 | 2   | 1,743.36 | 2   | 1,989.52 | 2   | 2,235.69 |
| 1/4 | 27.52  | 1/4 | 272.17 | 1/4 | 518.33 | 1/4 | 763.89 | 1/4 | 1,010.00 | 1/4 | 1,256.16 | 1/4 | 1,502.33 | 1/4 | 1,748.49 | 1/4 | 1,994.65 | 1/4 | 2,240.82 |
| 1/2 | 32.20  | 1/2 | 277.30 | 1/2 | 523.45 | 1/2 | 769.00 | 1/2 | 1,015.13 | 1/2 | 1,261.29 | 1/2 | 1,507.45 | 1/2 | 1,753.62 | 1/2 | 1,999.78 | 1/2 | 2,245.94 |
| 3/4 | 36.87  | 3/4 | 282.43 | 3/4 | 528.58 | 3/4 | 774.12 | 3/4 | 1,020.26 | 3/4 | 1,266.42 | 3/4 | 1,512.58 | 3/4 | 1,758.75 | 3/4 | 2,004.91 | 3/4 | 2,251.07 |
| 3   | 41.55  | 3   | 287.56 | 3   | 533.71 | 3   | 779.24 | 3   | 1,025.38 | 3   | 1,271.55 | 3   | 1,517.71 | 3   | 1,763.87 | 3   | 2,010.04 | 3   | 2,256.20 |
| 1/4 | 46.65  | 1/4 | 292.69 | 1/4 | 538.84 | 1/4 | 784.36 | 1/4 | 1,030.51 | 1/4 | 1,276.68 | 1/4 | 1,522.84 | 1/4 | 1,769.00 | 1/4 | 2,015.17 | 1/4 | 2,261.33 |
| 1/2 | 51.75  | 1/2 | 297.81 | 1/2 | 543.97 | 1/2 | 789.49 | 1/2 | 1,035.64 | 1/2 | 1,281.80 | 1/2 | 1,527.97 | 1/2 | 1,774.13 | 1/2 | 2,020.29 | 1/2 | 2,266.46 |
| 3/4 | 56.85  | 3/4 | 302.94 | 3/4 | 549.10 | 3/4 | 794.61 | 3/4 | 1,040.77 | 3/4 | 1,286.93 | 3/4 | 1,533.10 | 3/4 | 1,779.26 | 3/4 | 2,025.42 | 3/4 | 2,271.59 |
| 4   | 61.95  | 4   | 308.07 | 4   | 554.22 | 4   | 799.73 | 4   | 1,045.90 | 4   | 1,292.06 | 4   | 1,538.22 | 4   | 1,784.39 | 4   | 2,030.55 | 4   | 2,276.71 |
| 1/4 | 67.07  | 1/4 | 313.20 | 1/4 | 559.35 | 1/4 | 804.86 | 1/4 | 1,051.03 | 1/4 | 1,297.19 | 1/4 | 1,543.35 | 1/4 | 1,789.52 | 1/4 | 2,035.68 | 1/4 | 2,281.84 |
| 1/2 | 72.19  | 1/2 | 318.33 | 1/2 | 564.48 | 1/2 | 809.99 | 1/2 | 1,056.15 | 1/2 | 1,302.32 | 1/2 | 1,548.48 | 1/2 | 1,794.64 | 1/2 | 2,040.81 | 1/2 | 2,286.97 |
| 3/4 | 77.31  | 3/4 | 323.45 | 3/4 | 569.61 | 3/4 | 815.12 | 3/4 | 1,061.28 | 3/4 | 1,307.45 | 3/4 | 1,553.61 | 3/4 | 1,799.77 | 3/4 | 2,045.94 | 3/4 | 2,292.10 |
| 5   | 82.43  | 5   | 328.58 | 5   | 574.74 | 5   | 820.25 | 5   | 1,066.41 | 5   | 1,312.57 | 5   | 1,558.74 | 5   | 1,804.90 | 5   | 2,051.06 | 5   | 2,297.23 |
| 1/4 | 87.56  | 1/4 | 333.71 | 1/4 | 579.86 | 1/4 | 825.38 | 1/4 | 1,071.54 | 1/4 | 1,317.70 | 1/4 | 1,563.87 | 1/4 | 1,810.03 | 1/4 | 2,056.19 | 1/4 | 2,302.36 |
| 1/2 | 92.69  | 1/2 | 338.84 | 1/2 | 584.98 | 1/2 | 830.51 | 1/2 | 1,076.67 | 1/2 | 1,322.83 | 1/2 | 1,568.99 | 1/2 | 1,815.16 | 1/2 | 2,061.32 | 1/2 | 2,307.48 |
| 3/4 | 97.81  | 3/4 | 343.97 | 3/4 | 590.11 | 3/4 | 835.63 | 3/4 | 1,081.80 | 3/4 | 1,327.96 | 3/4 | 1,574.12 | 3/4 | 1,820.29 | 3/4 | 2,066.45 | 3/4 | 2,312.61 |
| 6   | 102.94 | 6   | 349.10 | 6   | 595.23 | 6   | 840.76 | 6   | 1,086.93 | 6   | 1,333.09 | 6   | 1,579.25 | 6   | 1,825.41 | 6   | 2,071.58 | 6   | 2,317.74 |
| 1/4 | 108.07 | 1/4 | 354.22 | 1/4 | 600.35 | 1/4 | 845.89 | 1/4 | 1,092.05 | 1/4 | 1,338.22 | 1/4 | 1,584.38 | 1/4 | 1,830.54 | 1/4 | 2,076.71 | 1/4 | 2,322.87 |
| 1/2 | 113.20 | 1/2 | 359.35 | 1/2 | 605.46 | 1/2 | 851.02 | 1/2 | 1,097.18 | 1/2 | 1,343.35 | 1/2 | 1,589.51 | 1/2 | 1,835.67 | 1/2 | 2,081.83 | 1/2 | 2,328.00 |
| 3/4 | 118.33 | 3/4 | 364.48 | 3/4 | 610.58 | 3/4 | 856.15 | 3/4 | 1,102.31 | 3/4 | 1,348.47 | 3/4 | 1,594.64 | 3/4 | 1,840.80 | 3/4 | 2,086.96 | 3/4 | 2,333.13 |
| 7   | 123.45 | 7   | 369.61 | 7   | 615.69 | 7   | 861.28 | 7   | 1,107.44 | 7   | 1,353.60 | 7   | 1,599.77 | 7   | 1,845.93 | 7   | 2,092.09 | 7   | 2,338.25 |
| 1/4 | 128.58 | 1/4 | 374.74 | 1/4 | 620.80 | 1/4 | 866.40 | 1/4 | 1,112.57 | 1/4 | 1,358.73 | 1/4 | 1,604.89 | 1/4 | 1,851.06 | 1/4 | 2,097.22 | 1/4 | 2,343.38 |
| 1/2 | 133.71 | 1/2 | 379.86 | 1/2 | 625.91 | 1/2 | 871.53 | 1/2 | 1,117.70 | 1/2 | 1,363.86 | 1/2 | 1,610.02 | 1/2 | 1,856.19 | 1/2 | 2,102.35 | 1/2 | 2,348.51 |
| 3/4 | 138.84 | 3/4 | 384.99 | 3/4 | 631.02 | 3/4 | 876.66 | 3/4 | 1,122.82 | 3/4 | 1,368.99 | 3/4 | 1,615.15 | 3/4 | 1,861.31 | 3/4 | 2,107.48 | 3/4 | 2,353.64 |
| 8   | 143.97 | 8   | 390.12 | 8   | 636.13 | 8   | 881.79 | 8   | 1,127.95 | 8   | 1,374.12 | 8   | 1,620.28 | 8   | 1,866.44 | 8   | 2,112.61 | 8   | 2,358.77 |
| 1/4 | 149.10 | 1/4 | 395.25 | 1/4 | 641.24 | 1/4 | 886.92 | 1/4 | 1,133.08 | 1/4 | 1,379.24 | 1/4 | 1,625.41 | 1/4 | 1,871.57 | 1/4 | 2,117.73 | 1/4 | 2,363.90 |
| 1/2 | 154.22 | 1/2 | 400.38 | 1/2 | 646.35 | 1/2 | 892.05 | 1/2 | 1,138.21 | 1/2 | 1,384.37 | 1/2 | 1,630.54 | 1/2 | 1,876.70 | 1/2 | 2,122.86 | 1/2 | 2,369.03 |
| 3/4 | 159.35 | 3/4 | 405.51 | 3/4 | 651.46 | 3/4 | 897.17 | 3/4 | 1,143.34 | 3/4 | 1,389.50 | 3/4 | 1,635.66 | 3/4 | 1,881.83 | 3/4 | 2,127.99 | 3/4 | 2,374.15 |
| 9   | 164.48 | 9   | 410.63 | 9   | 656.57 | 9   | 902.30 | 9   | 1,148.47 | 9   | 1,394.63 | 9   | 1,640.79 | 9   | 1,886.96 | 9   | 2,133.12 | 9   | 2,379.28 |
| 1/4 | 169.61 | 1/4 | 415.76 | 1/4 | 661.68 | 1/4 | 907.43 | 1/4 | 1,153.59 | 1/4 | 1,399.76 | 1/4 | 1,645.92 | 1/4 | 1,892.08 | 1/4 | 2,138.25 | 1/4 | 2,384.41 |
| 1/2 | 174.74 | 1/2 | 420.89 | 1/2 | 666.79 | 1/2 | 912.56 | 1/2 | 1,158.72 | 1/2 | 1,404.89 | 1/2 | 1,651.05 | 1/2 | 1,897.21 | 1/2 | 2,143.38 | 1/2 | 2,389.54 |
| 3/4 | 179.87 | 3/4 | 426.02 | 3/4 | 671.90 | 3/4 | 917.69 | 3/4 | 1,163.85 | 3/4 | 1,410.01 | 3/4 | 1,656.18 | 3/4 | 1,902.34 | 3/4 | 2,148.50 | 3/4 | 2,394.67 |
| 10  | 184.99 | 10  | 431.15 | 10  | 677.01 | 10  | 922.82 | 10  | 1,168.98 | 10  | 1,415.14 | 10  | 1,661.31 | 10  | 1,907.47 | 10  | 2,153.63 | 10  | 2,399.80 |
| 1/4 | 190.12 | 1/4 | 436.28 | 1/4 | 682.12 | 1/4 | 927.94 | 1/4 | 1,174.11 | 1/4 | 1,420.27 | 1/4 | 1,666.43 | 1/4 | 1,912.60 | 1/4 | 2,158.76 | 1/4 | 2,404.92 |
| 1/2 | 195.25 | 1/2 | 441.40 | 1/2 | 687.23 | 1/2 | 933.07 | 1/2 | 1,179.24 | 1/2 | 1,425.40 | 1/2 | 1,671.56 | 1/2 | 1,917.73 | 1/2 | 2,163.89 | 1/2 | 2,410.05 |
| 3/4 | 200.38 | 3/4 | 446.53 | 3/4 | 692.34 | 3/4 | 938.20 | 3/4 | 1,184.36 | 3/4 | 1,430.53 | 3/4 | 1,676.69 | 3/4 | 1,922.85 | 3/4 | 2,169.02 | 3/4 | 2,415.18 |
| 11  | 205.51 | 11  | 451.66 | 11  | 697.45 | 11  | 943.33 | 11  | 1,189.49 | 11  | 1,435.66 | 11  | 1,681.82 | 11  | 1,927.98 | 11  | 2,174.15 | 11  | 2,420.31 |
| 1/4 | 210.63 | 1/4 | 456.79 | 1/4 | 702.56 | 1/4 | 948.46 | 1/4 | 1,194.62 | 1/4 | 1,440.78 | 1/4 | 1,686.95 | 1/4 | 1,933.11 | 1/4 | 2,179.27 | 1/4 | 2,425.44 |
| 1/2 | 215.76 | 1/2 | 461.92 | 1/2 | 707.67 | 1/2 | 953.59 | 1/2 | 1,199.75 | 1/2 | 1,445.91 | 1/2 | 1,692.08 | 1/2 | 1,938.24 | 1/2 | 2,184.40 | 1/2 | 2,430.57 |
| 3/4 | 220.89 | 3/4 | 467.04 | 3/4 | 712.78 | 3/4 | 958.72 | 3/4 | 1,204.88 | 3/4 | 1,451.04 | 3/4 | 1,697.20 | 3/4 | 1,943.37 | 3/4 | 2,189.53 | 3/4 | 2,435.69 |

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 230SS"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-11"

| 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   | 2,440.82 | 0   | 2,686.99 | 0   | 2,933.15 | 0   | 3,179.31 | 0   | 3,425.48 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,445.95 | 1/4 | 2,692.11 | 1/4 | 2,938.28 | 1/4 | 3,184.44 | 1/4 | 3,430.60 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,451.08 | 1/2 | 2,697.24 | 1/2 | 2,943.41 | 1/2 | 3,189.57 | 1/2 | 3,435.73 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,456.21 | 3/4 | 2,702.37 | 3/4 | 2,948.53 | 3/4 | 3,194.70 | 3/4 | 3,440.86 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,461.34 | 1   | 2,707.50 | 1   | 2,953.66 | 1   | 3,199.83 | 1   | 3,445.99 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,466.46 | 1/4 | 2,712.63 | 1/4 | 2,958.79 | 1/4 | 3,204.95 | 1/4 | 3,451.12 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,471.59 | 1/2 | 2,717.76 | 1/2 | 2,963.92 | 1/2 | 3,210.08 | 1/2 | 3,456.24 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,476.72 | 3/4 | 2,722.88 | 3/4 | 2,969.05 | 3/4 | 3,215.21 | 3/4 | 3,461.37 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,481.85 | 2   | 2,728.01 | 2   | 2,974.18 | 2   | 3,220.34 | 2   | 3,466.50 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,486.98 | 1/4 | 2,733.14 | 1/4 | 2,979.30 | 1/4 | 3,225.47 | 1/4 | 3,471.62 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,492.11 | 1/2 | 2,738.27 | 1/2 | 2,984.43 | 1/2 | 3,230.60 | 1/2 | 3,476.74 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,497.24 | 3/4 | 2,743.40 | 3/4 | 2,989.56 | 3/4 | 3,235.72 | 3/4 | 3,481.86 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,502.36 | 3   | 2,748.53 | 3   | 2,994.69 | 3   | 3,240.85 | 3   | 3,486.98 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,507.49 | 1/4 | 2,753.66 | 1/4 | 2,999.82 | 1/4 | 3,245.98 | 1/4 | 3,492.08 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,512.62 | 1/2 | 2,758.78 | 1/2 | 3,004.95 | 1/2 | 3,251.11 | 1/2 | 3,497.18 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,517.75 | 3/4 | 2,763.91 | 3/4 | 3,010.08 | 3/4 | 3,256.24 | 3/4 | 3,502.28 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,522.88 | 4   | 2,769.04 | 4   | 3,015.20 | 4   | 3,261.37 | 4   | 3,507.38 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,528.01 | 1/4 | 2,774.17 | 1/4 | 3,020.33 | 1/4 | 3,266.50 | 1/4 | 3,512.06 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,533.13 | 1/2 | 2,779.30 | 1/2 | 3,025.46 | 1/2 | 3,271.62 | 1/2 | 3,516.74 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,538.26 | 3/4 | 2,784.43 | 3/4 | 3,030.59 | 3/4 | 3,276.75 | 3/4 | 3,521.41 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,543.39 | 5   | 2,789.55 | 5   | 3,035.72 | 5   | 3,281.88 | 5   | 3,526.09 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,548.52 | 1/4 | 2,794.68 | 1/4 | 3,040.85 | 1/4 | 3,287.01 | 1/4 | 3,529.51 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,553.65 | 1/2 | 2,799.81 | 1/2 | 3,045.97 | 1/2 | 3,292.14 | 1/2 | 3,532.93 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,558.78 | 3/4 | 2,804.94 | 3/4 | 3,051.10 | 3/4 | 3,297.27 | 3/4 | 3,536.34 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,563.90 | 6   | 2,810.07 | 6   | 3,056.23 | 6   | 3,302.39 | 6   | 3,539.76 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,569.03 | 1/4 | 2,815.20 | 1/4 | 3,061.36 | 1/4 | 3,307.52 | 1/4 | 3,541.47 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,574.16 | 1/2 | 2,820.32 | 1/2 | 3,066.49 | 1/2 | 3,312.65 | 1/2 | 3,543.18 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,579.29 | 3/4 | 2,825.45 | 3/4 | 3,071.62 | 3/4 | 3,317.78 | 3/4 | 3,544.89 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,584.42 | 7   | 2,830.58 | 7   | 3,076.74 | 7   | 3,322.91 | 7   | 3,546.60 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,589.55 | 1/4 | 2,835.71 | 1/4 | 3,081.87 | 1/4 | 3,328.04 | 1/4 | 3,547.45 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,594.67 | 1/2 | 2,840.84 | 1/2 | 3,087.00 | 1/2 | 3,333.16 | 1/2 | 3,548.31 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,599.80 | 3/4 | 2,845.97 | 3/4 | 3,092.13 | 3/4 | 3,338.29 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,604.93 | 8   | 2,851.09 | 8   | 3,097.26 | 8   | 3,343.42 | 8   |          | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,610.06 | 1/4 | 2,856.22 | 1/4 | 3,102.39 | 1/4 | 3,348.55 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,615.19 | 1/2 | 2,861.35 | 1/2 | 3,107.51 | 1/2 | 3,353.68 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,620.32 | 3/4 | 2,866.48 | 3/4 | 3,112.64 | 3/4 | 3,358.81 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,625.45 | 9   | 2,871.61 | 9   | 3,117.77 | 9   | 3,363.93 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,630.57 | 1/4 | 2,876.74 | 1/4 | 3,122.90 | 1/4 | 3,369.06 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,635.70 | 1/2 | 2,881.87 | 1/2 | 3,128.03 | 1/2 | 3,374.19 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,640.83 | 3/4 | 2,886.99 | 3/4 | 3,133.16 | 3/4 | 3,379.32 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,645.96 | 10  | 2,892.12 | 10  | 3,138.29 | 10  | 3,384.45 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,651.09 | 1/4 | 2,897.25 | 1/4 | 3,143.41 | 1/4 | 3,389.58 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,656.22 | 1/2 | 2,902.38 | 1/2 | 3,148.54 | 1/2 | 3,394.71 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,661.34 | 3/4 | 2,907.51 | 3/4 | 3,153.67 | 3/4 | 3,399.83 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 2,666.47 | 11  | 2,912.64 | 11  | 3,158.80 | 11  | 3,404.96 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 2,671.60 | 1/4 | 2,917.76 | 1/4 | 3,163.93 | 1/4 | 3,410.09 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,676.73 | 1/2 | 2,922.89 | 1/2 | 3,169.06 | 1/2 | 3,415.22 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,681.86 | 3/4 | 2,928.02 | 3/4 | 3,174.18 | 3/4 | 3,420.35 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

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



# BARGE "HFL 230SS"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT. | IN  | 4 FT. | IN  | 5 FT. | IN  | 6 FT. | IN  | 7 FT. | IN  | 8 FT. | IN  | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0   | 0     | 0   | 101   | 0   | 258   | 0   | 414   | 0   | 515   | 0   |       | 0   |       | 0   |       | 0   |       | 0   |       |
| 1/4 | 1     | 1/4 | 104   | 1/4 | 261   | 1/4 | 417   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 1     | 1/2 | 107   | 1/2 | 264   | 1/2 | 420   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 2     | 3/4 | 110   | 3/4 | 268   | 3/4 | 423   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 1   | 3     | 1   | 113   | 1   | 271   | 1   | 426   | 1   |       | 1   |       | 1   |       | 1   |       | 1   |       | 1   |       |
| 1/4 | 4     | 1/4 | 116   | 1/4 | 275   | 1/4 | 429   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 5     | 1/2 | 119   | 1/2 | 278   | 1/2 | 432   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 6     | 3/4 | 122   | 3/4 | 281   | 3/4 | 434   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 2   | 7     | 2   | 125   | 2   | 285   | 2   | 437   | 2   |       | 2   |       | 2   |       | 2   |       | 2   |       | 2   |       |
| 1/4 | 9     | 1/4 | 128   | 1/4 | 288   | 1/4 | 440   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 10    | 1/2 | 131   | 1/2 | 292   | 1/2 | 443   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 12    | 3/4 | 134   | 3/4 | 295   | 3/4 | 445   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 3   | 13    | 3   | 138   | 3   | 298   | 3   | 448   | 3   |       | 3   |       | 3   |       | 3   |       | 3   |       | 3   |       |
| 1/4 | 15    | 1/4 | 141   | 1/4 | 302   | 1/4 | 451   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 17    | 1/2 | 144   | 1/2 | 305   | 1/2 | 453   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 19    | 3/4 | 147   | 3/4 | 309   | 3/4 | 456   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 4   | 21    | 4   | 150   | 4   | 312   | 4   | 459   | 4   |       | 4   |       | 4   |       | 4   |       | 4   |       | 4   |       |
| 1/4 | 22    | 1/4 | 154   | 1/4 | 315   | 1/4 | 461   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 24    | 1/2 | 157   | 1/2 | 319   | 1/2 | 464   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 26    | 3/4 | 160   | 3/4 | 322   | 3/4 | 466   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 5   | 28    | 5   | 163   | 5   | 325   | 5   | 469   | 5   |       | 5   |       | 5   |       | 5   |       | 5   |       | 5   |       |
| 1/4 | 31    | 1/4 | 167   | 1/4 | 329   | 1/4 | 471   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 33    | 1/2 | 170   | 1/2 | 332   | 1/2 | 473   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 35    | 3/4 | 173   | 3/4 | 335   | 3/4 | 476   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 6   | 37    | 6   | 176   | 6   | 339   | 6   | 478   | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       |
| 1/4 | 39    | 1/4 | 180   | 1/4 | 342   | 1/4 | 480   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 42    | 1/2 | 183   | 1/2 | 345   | 1/2 | 482   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 44    | 3/4 | 186   | 3/4 | 349   | 3/4 | 484   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 7   | 47    | 7   | 190   | 7   | 352   | 7   | 487   | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       |
| 1/4 | 49    | 1/4 | 193   | 1/4 | 355   | 1/4 | 489   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 51    | 1/2 | 196   | 1/2 | 358   | 1/2 | 491   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 54    | 3/4 | 200   | 3/4 | 362   | 3/4 | 493   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 8   | 56    | 8   | 203   | 8   | 365   | 8   | 495   | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       |
| 1/4 | 59    | 1/4 | 207   | 1/4 | 368   | 1/4 | 496   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 62    | 1/2 | 210   | 1/2 | 371   | 1/2 | 498   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 64    | 3/4 | 213   | 3/4 | 374   | 3/4 | 500   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 9   | 67    | 9   | 217   | 9   | 378   | 9   | 502   | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       |
| 1/4 | 70    | 1/4 | 220   | 1/4 | 381   | 1/4 | 503   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 72    | 1/2 | 223   | 1/2 | 384   | 1/2 | 505   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 75    | 3/4 | 227   | 3/4 | 387   | 3/4 | 506   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 10  | 78    | 10  | 230   | 10  | 390   | 10  | 508   | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       |
| 1/4 | 81    | 1/4 | 234   | 1/4 | 393   | 1/4 | 509   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 83    | 1/2 | 237   | 1/2 | 396   | 1/2 | 510   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 86    | 3/4 | 240   | 3/4 | 399   | 3/4 | 511   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 11  | 89    | 11  | 244   | 11  | 402   | 11  | 512   | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       |
| 1/4 | 92    | 1/4 | 247   | 1/4 | 405   | 1/4 | 513   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 95    | 1/2 | 251   | 1/2 | 408   | 1/2 | 514   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 98    | 3/4 | 254   | 3/4 | 411   | 3/4 | 514   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |

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 INNAGE GAUGES

STRAPPED: 02/12/2025 CL  
CALCULATED: 02/13/2025 CL  
PRINTED: 02/14/2025 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2025

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