



BARGE "HSM 3149"

INNAGE 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 PORT	00-0/8	- 00-0/8	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
1 STBD	00-0/8	- 00-0/8	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
2 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 PORT	- 00-5/8	00-5/8	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-7/8	02-7/8	- 03-1/2	03-1/2
3 STBD	- 00-5/8	00-5/8	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-7/8	02-7/8	- 03-1/2	03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 5'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 252'-09"

February 15, 2023

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

1 PORT

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	21.41	0	359.39	0	722.27	0	1,084.92	0	1,447.56	0	1,810.45	0	2,173.35	0	2,536.24	0	2,899.04	0	3,261.80
1/4	25.66	1/4	366.95	1/4	729.83	1/4	1,092.46	1/4	1,455.12	1/4	1,818.01	1/4	2,180.91	1/4	2,543.80	1/4	2,906.59	1/4	3,269.35
1/2	29.91	1/2	374.51	1/2	737.39	1/2	1,100.01	1/2	1,462.68	1/2	1,825.57	1/2	2,188.47	1/2	2,551.36	1/2	2,914.15	1/2	3,276.91
3/4	34.16	3/4	382.07	3/4	744.95	3/4	1,107.56	3/4	1,470.24	3/4	1,833.13	3/4	2,196.03	3/4	2,558.92	3/4	2,921.71	3/4	3,284.47
1	38.41	1	389.63	1	752.51	1	1,115.11	1	1,477.80	1	1,840.69	1	2,203.59	1	2,566.48	1	2,929.27	1	3,292.03
1/4	43.92	1/4	397.19	1/4	760.07	1/4	1,122.66	1/4	1,485.36	1/4	1,848.26	1/4	2,211.15	1/4	2,574.04	1/4	2,936.82	1/4	3,299.58
1/2	49.43	1/2	404.75	1/2	767.63	1/2	1,130.20	1/2	1,492.92	1/2	1,855.82	1/2	2,218.71	1/2	2,581.60	1/2	2,944.38	1/2	3,307.14
3/4	54.95	3/4	412.31	3/4	775.19	3/4	1,137.75	3/4	1,500.48	3/4	1,863.38	3/4	2,226.27	3/4	2,589.16	3/4	2,951.94	3/4	3,314.70
2	60.46	2	419.87	2	782.75	2	1,145.30	2	1,508.04	2	1,870.94	2	2,233.83	2	2,596.72	2	2,959.50	2	3,322.26
1/4	67.23	1/4	427.43	1/4	790.31	1/4	1,152.85	1/4	1,515.60	1/4	1,878.50	1/4	2,241.39	1/4	2,604.29	1/4	2,967.05	1/4	3,329.81
1/2	74.00	1/2	434.99	1/2	797.87	1/2	1,160.40	1/2	1,523.16	1/2	1,886.06	1/2	2,248.95	1/2	2,611.85	1/2	2,974.61	1/2	3,337.37
3/4	80.77	3/4	442.55	3/4	805.43	3/4	1,167.94	3/4	1,530.72	3/4	1,893.62	3/4	2,256.51	3/4	2,619.41	3/4	2,982.17	3/4	3,344.93
3	87.55	3	450.11	3	812.99	3	1,175.49	3	1,538.28	3	1,901.18	3	2,264.07	3	2,626.97	3	2,989.73	3	3,352.49
1/4	95.03	1/4	457.67	1/4	820.55	1/4	1,183.04	1/4	1,545.84	1/4	1,908.74	1/4	2,271.63	1/4	2,634.52	1/4	2,997.28	1/4	3,360.04
1/2	102.51	1/2	465.23	1/2	828.11	1/2	1,190.59	1/2	1,553.40	1/2	1,916.30	1/2	2,279.19	1/2	2,642.08	1/2	3,004.84	1/2	3,367.60
3/4	109.99	3/4	472.79	3/4	835.67	3/4	1,198.14	3/4	1,560.96	3/4	1,923.86	3/4	2,286.75	3/4	2,649.64	3/4	3,012.40	3/4	3,375.16
4	117.47	4	480.35	4	843.23	4	1,205.68	4	1,568.52	4	1,931.42	4	2,294.31	4	2,657.20	4	3,019.96	4	3,382.72
1/4	125.03	1/4	487.91	1/4	850.79	1/4	1,213.23	1/4	1,576.08	1/4	1,938.98	1/4	2,301.87	1/4	2,664.75	1/4	3,027.51	1/4	3,390.27
1/2	132.59	1/2	495.47	1/2	858.35	1/2	1,220.78	1/2	1,583.64	1/2	1,946.54	1/2	2,309.43	1/2	2,672.31	1/2	3,035.07	1/2	3,397.83
3/4	140.15	3/4	503.03	3/4	865.91	3/4	1,228.33	3/4	1,591.20	3/4	1,954.10	3/4	2,316.99	3/4	2,679.87	3/4	3,042.63	3/4	3,405.39
5	147.71	5	510.59	5	873.47	5	1,235.88	5	1,598.77	5	1,961.66	5	2,324.55	5	2,687.43	5	3,050.19	5	3,412.95
1/4	155.27	1/4	518.15	1/4	881.03	1/4	1,243.44	1/4	1,606.33	1/4	1,969.22	1/4	2,332.11	1/4	2,694.98	1/4	3,057.74	1/4	3,420.50
1/2	162.83	1/2	525.71	1/2	888.59	1/2	1,250.99	1/2	1,613.89	1/2	1,976.78	1/2	2,339.67	1/2	2,702.54	1/2	3,065.30	1/2	3,428.06
3/4	170.39	3/4	533.27	3/4	896.15	3/4	1,258.55	3/4	1,621.45	3/4	1,984.34	3/4	2,347.23	3/4	2,710.10	3/4	3,072.86	3/4	3,435.62
6	177.95	6	540.83	6	903.71	6	1,266.11	6	1,629.01	6	1,991.90	6	2,354.80	6	2,717.66	6	3,080.42	6	3,443.18
1/4	185.51	1/4	548.39	1/4	911.27	1/4	1,273.67	1/4	1,636.57	1/4	1,999.46	1/4	2,362.36	1/4	2,725.21	1/4	3,087.97	1/4	3,450.73
1/2	193.07	1/2	555.95	1/2	918.83	1/2	1,281.23	1/2	1,644.13	1/2	2,007.02	1/2	2,369.92	1/2	2,732.77	1/2	3,095.53	1/2	3,458.29
3/4	200.63	3/4	563.51	3/4	926.39	3/4	1,288.79	3/4	1,651.69	3/4	2,014.58	3/4	2,377.48	3/4	2,740.33	3/4	3,103.09	3/4	3,465.85
7	208.19	7	571.07	7	933.95	7	1,296.35	7	1,659.25	7	2,022.14	7	2,385.04	7	2,747.89	7	3,110.65	7	3,473.41
1/4	215.75	1/4	578.63	1/4	941.50	1/4	1,303.91	1/4	1,666.81	1/4	2,029.70	1/4	2,392.60	1/4	2,755.44	1/4	3,118.20	1/4	3,480.96
1/2	223.31	1/2	586.19	1/2	949.05	1/2	1,311.47	1/2	1,674.37	1/2	2,037.26	1/2	2,400.16	1/2	2,763.00	1/2	3,125.76	1/2	3,488.52
3/4	230.87	3/4	593.75	3/4	956.60	3/4	1,319.03	3/4	1,681.93	3/4	2,044.82	3/4	2,407.72	3/4	2,770.56	3/4	3,133.32	3/4	3,496.08
8	238.43	8	601.31	8	964.15	8	1,326.59	8	1,689.49	8	2,052.38	8	2,415.28	8	2,778.12	8	3,140.88	8	3,503.64
1/4	245.99	1/4	608.87	1/4	971.70	1/4	1,334.15	1/4	1,697.05	1/4	2,059.94	1/4	2,422.84	1/4	2,785.67	1/4	3,148.43	1/4	3,511.19
1/2	253.55	1/2	616.43	1/2	979.24	1/2	1,341.72	1/2	1,704.61	1/2	2,067.50	1/2	2,430.40	1/2	2,793.23	1/2	3,155.99	1/2	3,518.75
3/4	261.11	3/4	623.99	3/4	986.79	3/4	1,349.28	3/4	1,712.17	3/4	2,075.06	3/4	2,437.96	3/4	2,800.79	3/4	3,163.55	3/4	3,526.31
9	268.67	9	631.55	9	994.34	9	1,356.84	9	1,719.73	9	2,082.62	9	2,445.52	9	2,808.35	9	3,171.11	9	3,533.87
1/4	276.23	1/4	639.11	1/4	1,001.89	1/4	1,364.40	1/4	1,727.29	1/4	2,090.18	1/4	2,453.08	1/4	2,815.90	1/4	3,178.66	1/4	3,541.42
1/2	283.79	1/2	646.67	1/2	1,009.44	1/2	1,371.96	1/2	1,734.85	1/2	2,097.75	1/2	2,460.64	1/2	2,823.46	1/2	3,186.22	1/2	3,548.98
3/4	291.35	3/4	654.23	3/4	1,016.98	3/4	1,379.52	3/4	1,742.41	3/4	2,105.31	3/4	2,468.20	3/4	2,831.02	3/4	3,193.78	3/4	3,556.54
10	298.91	10	661.79	10	1,024.53	10	1,387.08	10	1,749.97	10	2,112.87	10	2,475.76	10	2,838.58	10	3,201.34	10	3,564.10
1/4	306.47	1/4	669.35	1/4	1,032.08	1/4	1,394.64	1/4	1,757.53	1/4	2,120.43	1/4	2,483.32	1/4	2,846.13	1/4	3,208.89	1/4	3,571.65
1/2	314.03	1/2	676.91	1/2	1,039.63	1/2	1,402.20	1/2	1,765.09	1/2	2,127.99	1/2	2,490.88	1/2	2,853.69	1/2	3,216.45	1/2	3,579.21
3/4	321.59	3/4	684.47	3/4	1,047.18	3/4	1,409.76	3/4	1,772.65	3/4	2,135.55	3/4	2,498.44	3/4	2,861.25	3/4	3,224.01	3/4	3,586.77
11	329.15	11	692.03	11	1,054.72	11	1,417.32	11	1,780.21	11	2,143.11	11	2,506.00	11	2,868.81	11	3,231.57	11	3,594.33
1/4	336.71	1/4	699.59	1/4	1,062.27	1/4	1,424.88	1/4	1,787.77	1/4	2,150.67	1/4	2,513.56	1/4	2,876.36	1/4	3,239.12	1/4	3,601.88
1/2	344.27	1/2	707.15	1/2	1,069.82	1/2	1,432.44	1/2	1,795.33	1/2	2,158.23	1/2	2,521.12	1/2	2,883.92	1/2	3,246.68	1/2	3,609.44
3/4	351.83	3/4	714.71	3/4	1,077.37	3/4	1,440.00	3/4	1,802.89	3/4	2,165.79	3/4	2,528.68	3/4	2,891.48	3/4	3,254.24	3/4	3,617.00

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HSM 3149"

1 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,624.56	0	3,987.28	0	4,342.45	0	4,684.37	0	5,011.55	0		0		0		0		0	
1/4	3,632.11	1/4	3,994.81	1/4	4,349.70	1/4	4,691.34	1/4	5,018.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.67	1/2	4,002.33	1/2	4,356.95	1/2	4,698.32	1/2	5,024.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,647.23	3/4	4,009.86	3/4	4,364.20	3/4	4,705.29	3/4	5,031.34	3/4		3/4		3/4		3/4		3/4	
1	3,654.79	1	4,017.38	1	4,371.45	1	4,712.26	1	5,037.94	1		1		1		1		1	
1/4	3,662.34	1/4	4,024.89	1/4	4,378.68	1/4	4,719.19	1/4	5,044.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.90	1/2	4,032.39	1/2	4,385.90	1/2	4,726.11	1/2	5,051.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.46	3/4	4,039.89	3/4	4,393.13	3/4	4,733.04	3/4	5,057.67	3/4		3/4		3/4		3/4		3/4	
2	3,685.02	2	4,047.39	2	4,400.36	2	4,739.96	2	5,064.25	2		2		2		2		2	
1/4	3,692.57	1/4	4,054.87	1/4	4,407.56	1/4	4,746.86	1/4	5,070.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,700.13	1/2	4,062.35	1/2	4,414.76	1/2	4,753.76	1/2	5,077.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,707.69	3/4	4,069.83	3/4	4,421.97	3/4	4,760.66	3/4	5,083.91	3/4		3/4		3/4		3/4		3/4	
3	3,715.25	3	4,077.31	3	4,429.17	3	4,767.56	3	5,090.46	3		3		3		3		3	
1/4	3,722.80	1/4	4,084.77	1/4	4,436.35	1/4	4,774.43	1/4	5,096.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,730.36	1/2	4,092.23	1/2	4,443.53	1/2	4,781.31	1/2	5,103.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.92	3/4	4,099.68	3/4	4,450.71	3/4	4,788.19	3/4	5,110.05	3/4		3/4		3/4		3/4		3/4	
4	3,745.48	4	4,107.14	4	4,457.89	4	4,795.06	4	5,116.58	4		4		4		4		4	
1/4	3,753.03	1/4	4,114.58	1/4	4,465.05	1/4	4,801.91	1/4	5,123.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,760.59	1/2	4,122.01	1/2	4,472.21	1/2	4,808.77	1/2	5,129.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,768.15	3/4	4,129.44	3/4	4,479.37	3/4	4,815.62	3/4	5,136.10	3/4		3/4		3/4		3/4		3/4	
5	3,775.71	5	4,136.88	5	4,486.53	5	4,822.47	5	5,142.61	5		5		5		5		5	
1/4	3,783.26	1/4	4,144.29	1/4	4,493.66	1/4	4,829.30	1/4	5,149.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.82	1/2	4,151.70	1/2	4,500.80	1/2	4,836.13	1/2	5,157.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,798.38	3/4	4,159.11	3/4	4,507.93	3/4	4,842.96	3/4	5,164.22	3/4		3/4		3/4		3/4		3/4	
6	3,805.94	6	4,166.52	6	4,515.06	6	4,849.79	6	5,171.42	6		6		6		6		6	
1/4	3,813.49	1/4	4,173.91	1/4	4,522.18	1/4	4,856.60	1/4	5,177.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,821.05	1/2	4,181.30	1/2	4,529.29	1/2	4,863.40	1/2	5,184.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,828.61	3/4	4,188.68	3/4	4,536.40	3/4	4,870.21	3/4	5,190.43	3/4		3/4		3/4		3/4		3/4	
7	3,836.17	7	4,196.07	7	4,543.51	7	4,877.02	7	5,196.77	7		7		7		7		7	
1/4	3,843.72	1/4	4,203.44	1/4	4,550.60	1/4	4,883.80	1/4	5,201.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,851.28	1/2	4,210.80	1/2	4,557.69	1/2	4,890.58	1/2	5,207.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,858.84	3/4	4,218.17	3/4	4,564.78	3/4	4,897.37	3/4	5,212.13	3/4		3/4		3/4		3/4		3/4	
8	3,866.40	8	4,225.53	8	4,571.87	8	4,904.15	8	5,217.25	8		8		8		8		8	
1/4	3,873.95	1/4	4,232.87	1/4	4,578.93	1/4	4,910.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,881.51	1/2	4,240.22	1/2	4,586.00	1/2	4,917.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,889.07	3/4	4,247.56	3/4	4,593.07	3/4	4,924.43	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,896.63	9	4,254.90	9	4,600.13	9	4,931.19	9		9		9		9		9		9	
1/4	3,904.18	1/4	4,262.22	1/4	4,607.17	1/4	4,937.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.74	1/2	4,269.54	1/2	4,614.22	1/2	4,944.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,919.30	3/4	4,276.86	3/4	4,621.26	3/4	4,951.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,926.86	10	4,284.17	10	4,628.30	10	4,958.15	10		10		10		10		10		10	
1/4	3,934.41	1/4	4,291.47	1/4	4,635.32	1/4	4,964.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.97	1/2	4,298.77	1/2	4,642.34	1/2	4,971.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.53	3/4	4,306.06	3/4	4,649.36	3/4	4,978.30	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,957.09	11	4,313.36	11	4,656.38	11	4,985.02	11		11		11		11		11		11	
1/4	3,964.63	1/4	4,320.63	1/4	4,663.38	1/4	4,991.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,972.18	1/2	4,327.90	1/2	4,670.37	1/2	4,998.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,979.73	3/4	4,335.18	3/4	4,677.37	3/4	5,004.91	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023

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



BARGE "HSM 3149"

1 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	21.41	0	359.46	0	722.41	0	1,084.21	0	1,445.96	0	1,808.93	0	2,171.89	0	2,534.86	0	2,897.74	0	3,260.57
1/4	25.66	1/4	367.02	1/4	729.98	1/4	1,091.72	1/4	1,453.52	1/4	1,816.49	1/4	2,179.45	1/4	2,542.42	1/4	2,905.30	1/4	3,268.13
1/2	29.91	1/2	374.59	1/2	737.54	1/2	1,099.23	1/2	1,461.08	1/2	1,824.05	1/2	2,187.02	1/2	2,549.98	1/2	2,912.86	1/2	3,275.69
3/4	34.17	3/4	382.15	3/4	745.10	3/4	1,106.74	3/4	1,468.64	3/4	1,831.61	3/4	2,194.58	3/4	2,557.54	3/4	2,920.41	3/4	3,283.25
1	38.42	1	389.71	1	752.66	1	1,114.25	1	1,476.21	1	1,839.17	1	2,202.14	1	2,565.11	1	2,927.97	1	3,290.81
1/4	43.93	1/4	397.27	1/4	760.22	1/4	1,121.76	1/4	1,483.77	1/4	1,846.73	1/4	2,209.70	1/4	2,572.67	1/4	2,935.53	1/4	3,298.37
1/2	49.44	1/2	404.83	1/2	767.78	1/2	1,129.27	1/2	1,491.33	1/2	1,854.30	1/2	2,217.26	1/2	2,580.23	1/2	2,943.09	1/2	3,305.93
3/4	54.96	3/4	412.39	3/4	775.35	3/4	1,136.78	3/4	1,498.89	3/4	1,861.86	3/4	2,224.82	3/4	2,587.79	3/4	2,950.65	3/4	3,313.49
2	60.47	2	419.95	2	782.91	2	1,144.29	2	1,506.45	2	1,869.42	2	2,232.39	2	2,595.35	2	2,958.21	2	3,321.05
1/4	67.24	1/4	427.52	1/4	790.47	1/4	1,151.80	1/4	1,514.02	1/4	1,876.98	1/4	2,239.95	1/4	2,602.91	1/4	2,965.77	1/4	3,328.61
1/2	74.02	1/2	435.08	1/2	798.03	1/2	1,159.31	1/2	1,521.58	1/2	1,884.54	1/2	2,247.51	1/2	2,610.48	1/2	2,973.33	1/2	3,336.16
3/4	80.79	3/4	442.64	3/4	805.59	3/4	1,166.82	3/4	1,529.14	3/4	1,892.11	3/4	2,255.07	3/4	2,618.04	3/4	2,980.89	3/4	3,343.72
3	87.56	3	450.20	3	813.15	3	1,174.33	3	1,536.70	3	1,899.67	3	2,262.63	3	2,625.60	3	2,988.45	3	3,351.28
1/4	95.05	1/4	457.76	1/4	820.71	1/4	1,181.84	1/4	1,544.26	1/4	1,907.23	1/4	2,270.20	1/4	2,633.16	1/4	2,996.01	1/4	3,358.84
1/2	102.53	1/2	465.32	1/2	828.28	1/2	1,189.35	1/2	1,551.82	1/2	1,914.79	1/2	2,277.76	1/2	2,640.72	1/2	3,003.56	1/2	3,366.40
3/4	110.01	3/4	472.89	3/4	835.84	3/4	1,196.86	3/4	1,559.39	3/4	1,922.35	3/4	2,285.32	3/4	2,648.28	3/4	3,011.12	3/4	3,373.96
4	117.49	4	480.45	4	843.40	4	1,204.37	4	1,566.95	4	1,929.91	4	2,292.88	4	2,655.85	4	3,018.68	4	3,381.52
1/4	125.06	1/4	488.01	1/4	850.96	1/4	1,211.88	1/4	1,574.51	1/4	1,937.48	1/4	2,300.44	1/4	2,663.40	1/4	3,026.24	1/4	3,389.08
1/2	132.62	1/2	495.57	1/2	858.52	1/2	1,219.39	1/2	1,582.07	1/2	1,945.04	1/2	2,308.00	1/2	2,670.96	1/2	3,033.80	1/2	3,396.64
3/4	140.18	3/4	503.13	3/4	866.08	3/4	1,226.90	3/4	1,589.63	3/4	1,952.60	3/4	2,315.57	3/4	2,678.52	3/4	3,041.36	3/4	3,404.20
5	147.74	5	510.69	5	873.64	5	1,234.41	5	1,597.19	5	1,960.16	5	2,323.13	5	2,686.08	5	3,048.92	5	3,411.76
1/4	155.30	1/4	518.25	1/4	881.21	1/4	1,241.93	1/4	1,604.76	1/4	1,967.72	1/4	2,330.69	1/4	2,693.64	1/4	3,056.48	1/4	3,419.31
1/2	162.86	1/2	525.82	1/2	888.77	1/2	1,249.45	1/2	1,612.32	1/2	1,975.28	1/2	2,338.25	1/2	2,701.20	1/2	3,064.04	1/2	3,426.87
3/4	170.43	3/4	533.38	3/4	896.33	3/4	1,256.97	3/4	1,619.88	3/4	1,982.85	3/4	2,345.81	3/4	2,708.76	3/4	3,071.60	3/4	3,434.43
6	177.99	6	540.94	6	903.89	6	1,264.50	6	1,627.44	6	1,990.41	6	2,353.37	6	2,716.32	6	3,079.16	6	3,441.99
1/4	185.55	1/4	548.50	1/4	911.42	1/4	1,272.05	1/4	1,635.00	1/4	1,997.97	1/4	2,360.94	1/4	2,723.88	1/4	3,086.71	1/4	3,449.55
1/2	193.11	1/2	556.06	1/2	918.95	1/2	1,279.61	1/2	1,642.57	1/2	2,005.53	1/2	2,368.50	1/2	2,731.44	1/2	3,094.27	1/2	3,457.11
3/4	200.67	3/4	563.62	3/4	926.48	3/4	1,287.17	3/4	1,650.13	3/4	2,013.09	3/4	2,376.06	3/4	2,739.00	3/4	3,101.83	3/4	3,464.67
7	208.23	7	571.18	7	934.00	7	1,294.72	7	1,657.69	7	2,020.66	7	2,383.62	7	2,746.55	7	3,109.39	7	3,472.23
1/4	215.79	1/4	578.75	1/4	941.52	1/4	1,302.28	1/4	1,665.25	1/4	2,028.22	1/4	2,391.18	1/4	2,754.11	1/4	3,116.95	1/4	3,479.79
1/2	223.36	1/2	586.31	1/2	949.03	1/2	1,309.85	1/2	1,672.81	1/2	2,035.78	1/2	2,398.75	1/2	2,761.67	1/2	3,124.51	1/2	3,487.35
3/4	230.92	3/4	593.87	3/4	956.54	3/4	1,317.41	3/4	1,680.37	3/4	2,043.34	3/4	2,406.31	3/4	2,769.23	3/4	3,132.07	3/4	3,494.91
8	238.48	8	601.43	8	964.05	8	1,324.97	8	1,687.94	8	2,050.90	8	2,413.87	8	2,776.79	8	3,139.63	8	3,502.46
1/4	246.04	1/4	608.99	1/4	971.56	1/4	1,332.53	1/4	1,695.50	1/4	2,058.46	1/4	2,421.43	1/4	2,784.35	1/4	3,147.19	1/4	3,510.02
1/2	253.60	1/2	616.55	1/2	979.07	1/2	1,340.09	1/2	1,703.06	1/2	2,066.03	1/2	2,428.99	1/2	2,791.91	1/2	3,154.75	1/2	3,517.58
3/4	261.16	3/4	624.12	3/4	986.58	3/4	1,347.66	3/4	1,710.62	3/4	2,073.59	3/4	2,436.55	3/4	2,799.47	3/4	3,162.31	3/4	3,525.14
9	268.72	9	631.68	9	994.09	9	1,355.22	9	1,718.18	9	2,081.15	9	2,444.12	9	2,807.03	9	3,169.86	9	3,532.70
1/4	276.29	1/4	639.24	1/4	1,001.60	1/4	1,362.78	1/4	1,725.75	1/4	2,088.71	1/4	2,451.68	1/4	2,814.59	1/4	3,177.42	1/4	3,540.26
1/2	283.85	1/2	646.80	1/2	1,009.11	1/2	1,370.34	1/2	1,733.31	1/2	2,096.27	1/2	2,459.24	1/2	2,822.15	1/2	3,184.98	1/2	3,547.82
3/4	291.41	3/4	654.36	3/4	1,016.62	3/4	1,377.90	3/4	1,740.87	3/4	2,103.84	3/4	2,466.80	3/4	2,829.70	3/4	3,192.54	3/4	3,555.38
10	298.97	10	661.92	10	1,024.13	10	1,385.46	10	1,748.43	10	2,111.40	10	2,474.36	10	2,837.26	10	3,200.10	10	3,562.94
1/4	306.53	1/4	669.48	1/4	1,031.64	1/4	1,393.03	1/4	1,755.99	1/4	2,118.96	1/4	2,481.93	1/4	2,844.82	1/4	3,207.66	1/4	3,570.50
1/2	314.09	1/2	677.05	1/2	1,039.15	1/2	1,400.59	1/2	1,763.55	1/2	2,126.52	1/2	2,489.49	1/2	2,852.38	1/2	3,215.22	1/2	3,578.06
3/4	321.66	3/4	684.61	3/4	1,046.66	3/4	1,408.15	3/4	1,771.12	3/4	2,134.08	3/4	2,497.05	3/4	2,859.94	3/4	3,222.78	3/4	3,585.61
11	329.22	11	692.17	11	1,054.17	11	1,415.71	11	1,778.68	11	2,141.64	11	2,504.61	11	2,867.50	11	3,230.34	11	3,593.17
1/4	336.78	1/4	699.73	1/4	1,061.68	1/4	1,423.27	1/4	1,786.24	1/4	2,149.21	1/4	2,512.17	1/4	2,875.06	1/4	3,237.90	1/4	3,600.73
1/2	344.34	1/2	707.29	1/2	1,069.19	1/2	1,430.84	1/2	1,793.80	1/2	2,156.77	1/2	2,519.73	1/2	2,882.62	1/2	3,245.46	1/2	3,608.29
3/4	351.90	3/4	714.85	3/4	1,076.70	3/4	1,438.40	3/4	1,801.36	3/4	2,164.33	3/4	2,527.30	3/4	2,890.18	3/4	3,253.01	3/4	3,615.85

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3149"

1 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,623.41	0	3,986.20	0	4,341.45	0	4,683.46	0	5,010.73	0		0		0		0		0	
1/4	3,630.97	1/4	3,993.73	1/4	4,348.70	1/4	4,690.43	1/4	5,017.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.53	1/2	4,001.26	1/2	4,355.95	1/2	4,697.41	1/2	5,023.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.09	3/4	4,008.78	3/4	4,363.21	3/4	4,704.38	3/4	5,030.54	3/4		3/4		3/4		3/4		3/4	
1	3,653.65	1	4,016.31	1	4,370.46	1	4,711.36	1	5,037.14	1		1		1		1		1	
1/4	3,661.21	1/4	4,023.82	1/4	4,377.69	1/4	4,718.29	1/4	5,043.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.77	1/2	4,031.32	1/2	4,384.91	1/2	4,725.22	1/2	5,050.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.32	3/4	4,038.83	3/4	4,392.14	3/4	4,732.14	3/4	5,056.87	3/4		3/4		3/4		3/4		3/4	
2	3,683.88	2	4,046.33	2	4,399.37	2	4,739.07	2	5,063.45	2		2		2		2		2	
1/4	3,691.44	1/4	4,053.81	1/4	4,406.58	1/4	4,745.97	1/4	5,070.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.00	1/2	4,061.29	1/2	4,413.78	1/2	4,752.87	1/2	5,076.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,706.56	3/4	4,068.77	3/4	4,420.99	3/4	4,759.77	3/4	5,083.12	3/4		3/4		3/4		3/4		3/4	
3	3,714.12	3	4,076.26	3	4,428.19	3	4,766.67	3	5,089.67	3		3		3		3		3	
1/4	3,721.68	1/4	4,083.71	1/4	4,435.38	1/4	4,773.55	1/4	5,096.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.24	1/2	4,091.17	1/2	4,442.56	1/2	4,780.43	1/2	5,102.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,736.80	3/4	4,098.63	3/4	4,449.74	3/4	4,787.30	3/4	5,109.27	3/4		3/4		3/4		3/4		3/4	
4	3,744.36	4	4,106.09	4	4,456.92	4	4,794.18	4	5,115.80	4		4		4		4		4	
1/4	3,751.92	1/4	4,113.53	1/4	4,464.08	1/4	4,801.04	1/4	5,122.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.47	1/2	4,120.96	1/2	4,471.24	1/2	4,807.89	1/2	5,128.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.03	3/4	4,128.40	3/4	4,478.40	3/4	4,814.75	3/4	5,135.33	3/4		3/4		3/4		3/4		3/4	
5	3,774.59	5	4,135.83	5	4,485.56	5	4,821.60	5	5,141.84	5		5		5		5		5	
1/4	3,782.15	1/4	4,143.24	1/4	4,492.70	1/4	4,828.43	1/4	5,149.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,789.71	1/2	4,150.66	1/2	4,499.84	1/2	4,835.26	1/2	5,156.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.27	3/4	4,158.07	3/4	4,506.97	3/4	4,842.10	3/4	5,163.45	3/4		3/4		3/4		3/4		3/4	
6	3,804.83	6	4,165.48	6	4,514.11	6	4,848.93	6	5,170.65	6		6		6		6		6	
1/4	3,812.39	1/4	4,172.87	1/4	4,521.22	1/4	4,855.74	1/4	5,176.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,819.95	1/2	4,180.26	1/2	4,528.34	1/2	4,862.55	1/2	5,183.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.51	3/4	4,187.65	3/4	4,535.45	3/4	4,869.35	3/4	5,189.66	3/4		3/4		3/4		3/4		3/4	
7	3,835.07	7	4,195.04	7	4,542.56	7	4,876.16	7	5,196.00	7		7		7		7		7	
1/4	3,842.62	1/4	4,202.41	1/4	4,549.65	1/4	4,882.95	1/4	5,201.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,850.18	1/2	4,209.77	1/2	4,556.75	1/2	4,889.73	1/2	5,206.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,857.74	3/4	4,217.14	3/4	4,563.84	3/4	4,896.52	3/4	5,211.37	3/4		3/4		3/4		3/4		3/4	
8	3,865.30	8	4,224.51	8	4,570.93	8	4,903.31	8	5,216.49	8		8		8		8		8	
1/4	3,872.86	1/4	4,231.85	1/4	4,577.99	1/4	4,910.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.42	1/2	4,239.19	1/2	4,585.06	1/2	4,916.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.98	3/4	4,246.54	3/4	4,592.13	3/4	4,923.59	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,895.54	9	4,253.88	9	4,599.20	9	4,930.36	9		9		9		9		9		9	
1/4	3,903.10	1/4	4,261.20	1/4	4,606.24	1/4	4,937.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,910.66	1/2	4,268.52	1/2	4,613.29	1/2	4,943.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.22	3/4	4,275.84	3/4	4,620.33	3/4	4,950.58	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,925.77	10	4,283.16	10	4,627.38	10	4,957.32	10		10		10		10		10		10	
1/4	3,933.33	1/4	4,290.46	1/4	4,634.40	1/4	4,964.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.89	1/2	4,297.76	1/2	4,641.42	1/2	4,970.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.45	3/4	4,305.05	3/4	4,648.44	3/4	4,977.48	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,956.01	11	4,312.35	11	4,655.46	11	4,984.20	11		11		11		11		11		11	
1/4	3,963.56	1/4	4,319.63	1/4	4,662.46	1/4	4,990.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.11	1/2	4,326.90	1/2	4,669.46	1/2	4,997.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.65	3/4	4,334.18	3/4	4,676.46	3/4	5,004.10	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023

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



BARGE "HSM 3149"

2 PORT

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	21.31	0	357.86	0	719.19	0	1,080.29	0	1,441.39	0	1,802.73	0	2,164.08	0	2,525.43	0	2,886.67	0	3,247.89
1/4	25.55	1/4	365.39	1/4	726.72	1/4	1,087.81	1/4	1,448.91	1/4	1,810.26	1/4	2,171.61	1/4	2,532.96	1/4	2,894.20	1/4	3,255.41
1/2	29.78	1/2	372.92	1/2	734.25	1/2	1,095.32	1/2	1,456.44	1/2	1,817.79	1/2	2,179.14	1/2	2,540.49	1/2	2,901.72	1/2	3,262.94
3/4	34.01	3/4	380.44	3/4	741.78	3/4	1,102.84	3/4	1,463.97	3/4	1,825.32	3/4	2,186.67	3/4	2,548.02	3/4	2,909.25	3/4	3,270.46
1	38.25	1	387.97	1	749.31	1	1,110.35	1	1,471.50	1	1,832.85	1	2,194.20	1	2,555.54	1	2,916.77	1	3,277.99
1/4	43.74	1/4	395.50	1/4	756.83	1/4	1,117.87	1/4	1,479.03	1/4	1,840.38	1/4	2,201.72	1/4	2,563.07	1/4	2,924.30	1/4	3,285.51
1/2	49.22	1/2	403.03	1/2	764.36	1/2	1,125.38	1/2	1,486.55	1/2	1,847.90	1/2	2,209.25	1/2	2,570.60	1/2	2,931.82	1/2	3,293.04
3/4	54.71	3/4	410.55	3/4	771.89	3/4	1,132.90	3/4	1,494.08	3/4	1,855.43	3/4	2,216.78	3/4	2,578.13	3/4	2,939.35	3/4	3,300.56
2	60.20	2	418.08	2	779.42	2	1,140.42	2	1,501.61	2	1,862.96	2	2,224.31	2	2,585.66	2	2,946.88	2	3,308.09
1/4	66.94	1/4	425.61	1/4	786.94	1/4	1,147.93	1/4	1,509.14	1/4	1,870.49	1/4	2,231.84	1/4	2,593.19	1/4	2,954.40	1/4	3,315.61
1/2	73.69	1/2	433.14	1/2	794.47	1/2	1,155.45	1/2	1,516.67	1/2	1,878.02	1/2	2,239.36	1/2	2,600.71	1/2	2,961.93	1/2	3,323.14
3/4	80.43	3/4	440.67	3/4	802.00	3/4	1,162.96	3/4	1,524.19	3/4	1,885.54	3/4	2,246.89	3/4	2,608.24	3/4	2,969.45	3/4	3,330.67
3	87.17	3	448.19	3	809.53	3	1,170.48	3	1,531.72	3	1,893.07	3	2,254.42	3	2,615.77	3	2,976.98	3	3,338.19
1/4	94.62	1/4	455.72	1/4	817.06	1/4	1,178.00	1/4	1,539.25	1/4	1,900.60	1/4	2,261.95	1/4	2,623.29	1/4	2,984.50	1/4	3,345.72
1/2	102.07	1/2	463.25	1/2	824.58	1/2	1,185.51	1/2	1,546.78	1/2	1,908.13	1/2	2,269.48	1/2	2,630.82	1/2	2,992.03	1/2	3,353.24
3/4	109.52	3/4	470.78	3/4	832.11	3/4	1,193.03	3/4	1,554.31	3/4	1,915.66	3/4	2,277.00	3/4	2,638.34	3/4	2,999.55	3/4	3,360.77
4	116.97	4	478.30	4	839.64	4	1,200.54	4	1,561.84	4	1,923.18	4	2,284.53	4	2,645.86	4	3,007.08	4	3,368.29
1/4	124.50	1/4	485.83	1/4	847.17	1/4	1,208.06	1/4	1,569.36	1/4	1,930.71	1/4	2,292.06	1/4	2,653.39	1/4	3,014.60	1/4	3,375.82
1/2	132.03	1/2	493.36	1/2	854.69	1/2	1,215.57	1/2	1,576.89	1/2	1,938.24	1/2	2,299.59	1/2	2,660.91	1/2	3,022.13	1/2	3,383.34
3/4	139.55	3/4	500.89	3/4	862.22	3/4	1,223.09	3/4	1,584.42	3/4	1,945.77	3/4	2,307.12	3/4	2,668.44	3/4	3,029.65	3/4	3,390.87
5	147.08	5	508.42	5	869.75	5	1,230.61	5	1,591.95	5	1,953.30	5	2,314.65	5	2,675.96	5	3,037.18	5	3,398.39
1/4	154.61	1/4	515.94	1/4	877.28	1/4	1,238.13	1/4	1,599.48	1/4	1,960.82	1/4	2,322.17	1/4	2,683.49	1/4	3,044.70	1/4	3,405.92
1/2	162.14	1/2	523.47	1/2	884.81	1/2	1,245.66	1/2	1,607.00	1/2	1,968.35	1/2	2,329.70	1/2	2,691.02	1/2	3,052.23	1/2	3,413.44
3/4	169.67	3/4	531.00	3/4	892.33	3/4	1,253.19	3/4	1,614.53	3/4	1,975.88	3/4	2,337.23	3/4	2,698.54	3/4	3,059.75	3/4	3,420.97
6	177.19	6	538.53	6	899.86	6	1,260.71	6	1,622.06	6	1,983.41	6	2,344.76	6	2,706.07	6	3,067.28	6	3,428.49
1/4	184.72	1/4	546.06	1/4	907.39	1/4	1,268.24	1/4	1,629.59	1/4	1,990.94	1/4	2,352.29	1/4	2,713.59	1/4	3,074.81	1/4	3,436.02
1/2	192.25	1/2	553.58	1/2	914.92	1/2	1,275.77	1/2	1,637.12	1/2	1,998.47	1/2	2,359.81	1/2	2,721.12	1/2	3,082.33	1/2	3,443.55
3/4	199.78	3/4	561.11	3/4	922.45	3/4	1,283.30	3/4	1,644.64	3/4	2,005.99	3/4	2,367.34	3/4	2,728.64	3/4	3,089.86	3/4	3,451.07
7	207.30	7	568.64	7	929.97	7	1,290.82	7	1,652.17	7	2,013.52	7	2,374.87	7	2,736.17	7	3,097.38	7	3,458.60
1/4	214.83	1/4	576.17	1/4	937.49	1/4	1,298.35	1/4	1,659.70	1/4	2,021.05	1/4	2,382.40	1/4	2,743.69	1/4	3,104.91	1/4	3,466.12
1/2	222.36	1/2	583.69	1/2	945.01	1/2	1,305.88	1/2	1,667.23	1/2	2,028.58	1/2	2,389.93	1/2	2,751.22	1/2	3,112.43	1/2	3,473.65
3/4	229.89	3/4	591.22	3/4	952.52	3/4	1,313.41	3/4	1,674.76	3/4	2,036.11	3/4	2,397.45	3/4	2,758.74	3/4	3,119.96	3/4	3,481.17
8	237.42	8	598.75	8	960.04	8	1,320.94	8	1,682.28	8	2,043.63	8	2,404.98	8	2,766.27	8	3,127.48	8	3,488.70
1/4	244.94	1/4	606.28	1/4	967.55	1/4	1,328.46	1/4	1,689.81	1/4	2,051.16	1/4	2,412.51	1/4	2,773.79	1/4	3,135.01	1/4	3,496.22
1/2	252.47	1/2	613.81	1/2	975.07	1/2	1,335.99	1/2	1,697.34	1/2	2,058.69	1/2	2,420.04	1/2	2,781.32	1/2	3,142.53	1/2	3,503.75
3/4	260.00	3/4	621.33	3/4	982.58	3/4	1,343.52	3/4	1,704.87	3/4	2,066.22	3/4	2,427.57	3/4	2,788.84	3/4	3,150.06	3/4	3,511.27
9	267.53	9	628.86	9	990.10	9	1,351.05	9	1,712.40	9	2,073.75	9	2,435.09	9	2,796.37	9	3,157.58	9	3,518.80
1/4	275.05	1/4	636.39	1/4	997.62	1/4	1,358.58	1/4	1,719.93	1/4	2,081.27	1/4	2,442.62	1/4	2,803.89	1/4	3,165.11	1/4	3,526.32
1/2	282.58	1/2	643.92	1/2	1,005.13	1/2	1,366.10	1/2	1,727.45	1/2	2,088.80	1/2	2,450.15	1/2	2,811.42	1/2	3,172.63	1/2	3,533.85
3/4	290.11	3/4	651.44	3/4	1,012.65	3/4	1,373.63	3/4	1,734.98	3/4	2,096.33	3/4	2,457.68	3/4	2,818.95	3/4	3,180.16	3/4	3,541.37
10	297.64	10	658.97	10	1,020.16	10	1,381.16	10	1,742.51	10	2,103.86	10	2,465.21	10	2,826.47	10	3,187.68	10	3,548.90
1/4	305.17	1/4	666.50	1/4	1,027.68	1/4	1,388.69	1/4	1,750.04	1/4	2,111.39	1/4	2,472.74	1/4	2,834.00	1/4	3,195.21	1/4	3,556.42
1/2	312.69	1/2	674.03	1/2	1,035.20	1/2	1,396.22	1/2	1,757.57	1/2	2,118.91	1/2	2,480.26	1/2	2,841.52	1/2	3,202.74	1/2	3,563.95
3/4	320.22	3/4	681.56	3/4	1,042.71	3/4	1,403.75	3/4	1,765.09	3/4	2,126.44	3/4	2,487.79	3/4	2,849.05	3/4	3,210.26	3/4	3,571.48
11	327.75	11	689.08	11	1,050.23	11	1,411.27	11	1,772.62	11	2,133.97	11	2,495.32	11	2,856.57	11	3,217.79	11	3,579.00
1/4	335.28	1/4	696.61	1/4	1,057.74	1/4	1,418.80	1/4	1,780.15	1/4	2,141.50	1/4	2,502.85	1/4	2,864.10	1/4	3,225.31	1/4	3,586.53
1/2	342.80	1/2	704.14	1/2	1,065.26	1/2	1,426.33	1/2	1,787.68	1/2	2,149.03	1/2	2,510.38	1/2	2,871.62	1/2	3,232.84	1/2	3,594.05
3/4	350.33	3/4	711.67	3/4	1,072.77	3/4	1,433.86	3/4	1,795.21	3/4	2,156.56	3/4	2,517.90	3/4	2,879.15	3/4	3,240.36	3/4	3,601.58

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

2 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,609.10	0	3,970.27	0	4,323.91	0	4,664.33	0	4,990.04	0		0		0		0		0	
1/4	3,616.63	1/4	3,977.77	1/4	4,331.13	1/4	4,671.27	1/4	4,996.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.15	1/2	3,985.26	1/2	4,338.35	1/2	4,678.22	1/2	5,003.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.68	3/4	3,992.75	3/4	4,345.57	3/4	4,685.16	3/4	5,009.75	3/4		3/4		3/4		3/4		3/4	
1	3,639.20	1	4,000.25	1	4,352.78	1	4,692.10	1	5,016.32	1		1		1		1		1	
1/4	3,646.73	1/4	4,007.72	1/4	4,359.98	1/4	4,699.00	1/4	5,022.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,654.25	1/2	4,015.19	1/2	4,367.18	1/2	4,705.89	1/2	5,029.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,661.78	3/4	4,022.66	3/4	4,374.37	3/4	4,712.78	3/4	5,035.95	3/4		3/4		3/4		3/4		3/4	
2	3,669.30	2	4,030.13	2	4,381.57	2	4,719.68	2	5,042.50	2		2		2		2		2	
1/4	3,676.83	1/4	4,037.58	1/4	4,388.74	1/4	4,726.55	1/4	5,049.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,684.35	1/2	4,045.03	1/2	4,395.91	1/2	4,733.41	1/2	5,055.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,691.88	3/4	4,052.47	3/4	4,403.08	3/4	4,740.28	3/4	5,062.07	3/4		3/4		3/4		3/4		3/4	
3	3,699.41	3	4,059.92	3	4,410.26	3	4,747.15	3	5,068.59	3		3		3		3		3	
1/4	3,706.93	1/4	4,067.35	1/4	4,417.40	1/4	4,753.99	1/4	5,075.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,714.46	1/2	4,074.77	1/2	4,424.55	1/2	4,760.84	1/2	5,081.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,721.98	3/4	4,082.20	3/4	4,431.70	3/4	4,767.68	3/4	5,088.09	3/4		3/4		3/4		3/4		3/4	
4	3,729.51	4	4,089.62	4	4,438.85	4	4,774.53	4	5,094.60	4		4		4		4		4	
1/4	3,737.03	1/4	4,097.02	1/4	4,445.98	1/4	4,781.35	1/4	5,101.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,744.56	1/2	4,104.42	1/2	4,453.11	1/2	4,788.17	1/2	5,107.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,752.08	3/4	4,111.83	3/4	4,460.23	3/4	4,795.00	3/4	5,114.03	3/4		3/4		3/4		3/4		3/4	
5	3,759.61	5	4,119.23	5	4,467.36	5	4,801.82	5	5,120.50	5		5		5		5		5	
1/4	3,767.13	1/4	4,126.61	1/4	4,474.46	1/4	4,808.62	1/4	5,127.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,774.66	1/2	4,133.99	1/2	4,481.57	1/2	4,815.42	1/2	5,134.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,782.18	3/4	4,141.37	3/4	4,488.67	3/4	4,822.21	3/4	5,142.02	3/4		3/4		3/4		3/4		3/4	
6	3,789.71	6	4,148.74	6	4,495.77	6	4,829.01	6	5,149.19	6		6		6		6		6	
1/4	3,797.23	1/4	4,156.10	1/4	4,502.85	1/4	4,835.79	1/4	5,155.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,804.76	1/2	4,163.46	1/2	4,509.93	1/2	4,842.57	1/2	5,161.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,812.28	3/4	4,170.81	3/4	4,517.01	3/4	4,849.34	3/4	5,168.12	3/4		3/4		3/4		3/4		3/4	
7	3,819.81	7	4,178.17	7	4,524.10	7	4,856.12	7	5,174.42	7		7		7		7		7	
1/4	3,827.34	1/4	4,185.50	1/4	4,531.15	1/4	4,862.87	1/4	5,179.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,834.86	1/2	4,192.83	1/2	4,538.21	1/2	4,869.62	1/2	5,184.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,842.39	3/4	4,200.17	3/4	4,545.27	3/4	4,876.38	3/4	5,189.72	3/4		3/4		3/4		3/4		3/4	
8	3,849.91	8	4,207.50	8	4,552.33	8	4,883.13	8	5,194.82	8		8		8		8		8	
1/4	3,857.44	1/4	4,214.81	1/4	4,559.36	1/4	4,889.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,864.96	1/2	4,222.12	1/2	4,566.40	1/2	4,896.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,872.49	3/4	4,229.43	3/4	4,573.43	3/4	4,903.32	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,880.01	9	4,236.74	9	4,580.46	9	4,910.05	9		9		9		9		9		9	
1/4	3,887.54	1/4	4,244.03	1/4	4,587.48	1/4	4,916.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,895.06	1/2	4,251.32	1/2	4,594.49	1/2	4,923.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,902.59	3/4	4,258.60	3/4	4,601.50	3/4	4,930.18	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,910.11	10	4,265.89	10	4,608.51	10	4,936.89	10		10		10		10		10		10	
1/4	3,917.64	1/4	4,273.15	1/4	4,615.50	1/4	4,943.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,925.16	1/2	4,280.42	1/2	4,622.49	1/2	4,950.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,932.69	3/4	4,287.68	3/4	4,629.48	3/4	4,956.95	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,940.21	11	4,294.95	11	4,636.47	11	4,963.63	11		11		11		11		11		11	
1/4	3,947.73	1/4	4,302.19	1/4	4,643.43	1/4	4,970.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,955.24	1/2	4,309.43	1/2	4,650.40	1/2	4,976.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,962.76	3/4	4,316.67	3/4	4,657.36	3/4	4,983.44	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023



BARGE "HSM 3149"

2 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	21.32	0	357.90	0	719.28	0	1,072.64	0	1,425.67	0	1,787.05	0	2,148.44	0	2,509.83	0	2,871.13	0	3,232.39
1/4	25.55	1/4	365.43	1/4	726.81	1/4	1,079.83	1/4	1,433.20	1/4	1,794.58	1/4	2,155.97	1/4	2,517.36	1/4	2,878.66	1/4	3,239.92
1/2	29.78	1/2	372.96	1/2	734.34	1/2	1,087.01	1/2	1,440.72	1/2	1,802.11	1/2	2,163.50	1/2	2,524.89	1/2	2,886.19	1/2	3,247.44
3/4	34.02	3/4	380.49	3/4	741.87	3/4	1,094.20	3/4	1,448.25	3/4	1,809.64	3/4	2,171.03	3/4	2,532.42	3/4	2,893.71	3/4	3,254.97
1	38.25	1	388.02	1	749.40	1	1,101.38	1	1,455.78	1	1,817.17	1	2,178.56	1	2,539.94	1	2,901.24	1	3,262.50
1/4	43.74	1/4	395.55	1/4	756.92	1/4	1,108.57	1/4	1,463.31	1/4	1,824.70	1/4	2,186.09	1/4	2,547.47	1/4	2,908.76	1/4	3,270.02
1/2	49.23	1/2	403.08	1/2	764.45	1/2	1,115.75	1/2	1,470.84	1/2	1,832.23	1/2	2,193.61	1/2	2,555.00	1/2	2,916.29	1/2	3,277.55
3/4	54.72	3/4	410.60	3/4	771.98	3/4	1,122.94	3/4	1,478.37	3/4	1,839.76	3/4	2,201.14	3/4	2,562.53	3/4	2,923.82	3/4	3,285.07
2	60.21	2	418.13	2	779.51	2	1,130.13	2	1,485.90	2	1,847.29	2	2,208.67	2	2,570.06	2	2,931.34	2	3,292.60
1/4	66.95	1/4	425.66	1/4	787.04	1/4	1,137.31	1/4	1,493.43	1/4	1,854.81	1/4	2,216.20	1/4	2,577.59	1/4	2,938.87	1/4	3,300.13
1/2	73.70	1/2	433.19	1/2	794.57	1/2	1,144.50	1/2	1,500.96	1/2	1,862.34	1/2	2,223.73	1/2	2,585.12	1/2	2,946.40	1/2	3,307.65
3/4	80.44	3/4	440.72	3/4	802.10	3/4	1,151.68	3/4	1,508.48	3/4	1,869.87	3/4	2,231.26	3/4	2,592.65	3/4	2,953.92	3/4	3,315.18
3	87.18	3	448.25	3	809.63	3	1,158.87	3	1,516.01	3	1,877.40	3	2,238.79	3	2,600.18	3	2,961.45	3	3,322.71
1/4	94.63	1/4	455.78	1/4	817.15	1/4	1,166.05	1/4	1,523.54	1/4	1,884.93	1/4	2,246.32	1/4	2,607.71	1/4	2,968.97	1/4	3,330.23
1/2	102.08	1/2	463.31	1/2	824.68	1/2	1,173.24	1/2	1,531.07	1/2	1,892.46	1/2	2,253.85	1/2	2,615.23	1/2	2,976.50	1/2	3,337.76
3/4	109.54	3/4	470.83	3/4	832.21	3/4	1,180.43	3/4	1,538.60	3/4	1,899.99	3/4	2,261.37	3/4	2,622.76	3/4	2,984.03	3/4	3,345.28
4	116.99	4	478.36	4	839.74	4	1,187.61	4	1,546.13	4	1,907.52	4	2,268.90	4	2,630.29	4	2,991.55	4	3,352.81
1/4	124.51	1/4	485.89	1/4	847.27	1/4	1,194.80	1/4	1,553.66	1/4	1,915.05	1/4	2,276.43	1/4	2,637.82	1/4	2,999.08	1/4	3,360.34
1/2	132.04	1/2	493.42	1/2	854.80	1/2	1,201.98	1/2	1,561.19	1/2	1,922.57	1/2	2,283.96	1/2	2,645.35	1/2	3,006.60	1/2	3,367.86
3/4	139.57	3/4	500.95	3/4	862.33	3/4	1,209.17	3/4	1,568.72	3/4	1,930.10	3/4	2,291.49	3/4	2,652.87	3/4	3,014.13	3/4	3,375.39
5	147.10	5	508.48	5	869.86	5	1,216.35	5	1,576.24	5	1,937.63	5	2,299.02	5	2,660.40	5	3,021.66	5	3,382.91
1/4	154.63	1/4	516.01	1/4	877.38	1/4	1,223.55	1/4	1,583.77	1/4	1,945.16	1/4	2,306.55	1/4	2,667.93	1/4	3,029.18	1/4	3,390.44
1/2	162.16	1/2	523.54	1/2	884.91	1/2	1,230.75	1/2	1,591.30	1/2	1,952.69	1/2	2,314.08	1/2	2,675.45	1/2	3,036.71	1/2	3,397.97
3/4	169.69	3/4	531.06	3/4	892.44	3/4	1,237.94	3/4	1,598.83	3/4	1,960.22	3/4	2,321.61	3/4	2,682.98	3/4	3,044.24	3/4	3,405.49
6	177.21	6	538.59	6	899.97	6	1,245.14	6	1,606.36	6	1,967.75	6	2,329.13	6	2,690.50	6	3,051.76	6	3,413.02
1/4	184.74	1/4	546.12	1/4	907.21	1/4	1,252.63	1/4	1,613.89	1/4	1,975.28	1/4	2,336.66	1/4	2,698.03	1/4	3,059.29	1/4	3,420.55
1/2	192.27	1/2	553.65	1/2	914.45	1/2	1,260.11	1/2	1,621.42	1/2	1,982.81	1/2	2,344.19	1/2	2,705.56	1/2	3,066.81	1/2	3,428.07
3/4	199.80	3/4	561.18	3/4	921.69	3/4	1,267.60	3/4	1,628.95	3/4	1,990.33	3/4	2,351.72	3/4	2,713.08	3/4	3,074.34	3/4	3,435.60
7	207.33	7	568.71	7	928.92	7	1,275.09	7	1,636.48	7	1,997.86	7	2,359.25	7	2,720.61	7	3,081.87	7	3,443.12
1/4	214.86	1/4	576.24	1/4	936.11	1/4	1,282.62	1/4	1,644.00	1/4	2,005.39	1/4	2,366.78	1/4	2,728.14	1/4	3,089.39	1/4	3,450.65
1/2	222.39	1/2	583.76	1/2	943.30	1/2	1,290.15	1/2	1,651.53	1/2	2,012.92	1/2	2,374.31	1/2	2,735.66	1/2	3,096.92	1/2	3,458.18
3/4	229.92	3/4	591.29	3/4	950.48	3/4	1,297.68	3/4	1,659.06	3/4	2,020.45	3/4	2,381.84	3/4	2,743.19	3/4	3,104.45	3/4	3,465.70
8	237.44	8	598.82	8	957.67	8	1,305.20	8	1,666.59	8	2,027.98	8	2,389.37	8	2,750.71	8	3,111.97	8	3,473.23
1/4	244.97	1/4	606.35	1/4	964.86	1/4	1,312.73	1/4	1,674.12	1/4	2,035.51	1/4	2,396.89	1/4	2,758.24	1/4	3,119.50	1/4	3,480.76
1/2	252.50	1/2	613.88	1/2	972.04	1/2	1,320.26	1/2	1,681.65	1/2	2,043.04	1/2	2,404.42	1/2	2,765.77	1/2	3,127.02	1/2	3,488.28
3/4	260.03	3/4	621.41	3/4	979.23	3/4	1,327.79	3/4	1,689.18	3/4	2,050.57	3/4	2,411.95	3/4	2,773.29	3/4	3,134.55	3/4	3,495.81
9	267.56	9	628.94	9	986.41	9	1,335.32	9	1,696.71	9	2,058.09	9	2,419.48	9	2,780.82	9	3,142.08	9	3,503.33
1/4	275.09	1/4	636.47	1/4	993.60	1/4	1,342.85	1/4	1,704.24	1/4	2,065.62	1/4	2,427.01	1/4	2,788.34	1/4	3,149.60	1/4	3,510.86
1/2	282.62	1/2	643.99	1/2	1,000.79	1/2	1,350.38	1/2	1,711.77	1/2	2,073.15	1/2	2,434.54	1/2	2,795.87	1/2	3,157.13	1/2	3,518.39
3/4	290.15	3/4	651.52	3/4	1,007.97	3/4	1,357.91	3/4	1,719.29	3/4	2,080.68	3/4	2,442.07	3/4	2,803.40	3/4	3,164.65	3/4	3,525.91
10	297.67	10	659.05	10	1,015.16	10	1,365.44	10	1,726.82	10	2,088.21	10	2,449.60	10	2,810.92	10	3,172.18	10	3,533.44
1/4	305.20	1/4	666.58	1/4	1,022.34	1/4	1,372.96	1/4	1,734.35	1/4	2,095.74	1/4	2,457.13	1/4	2,818.45	1/4	3,179.71	1/4	3,540.96
1/2	312.73	1/2	674.11	1/2	1,029.53	1/2	1,380.49	1/2	1,741.88	1/2	2,103.27	1/2	2,464.65	1/2	2,825.98	1/2	3,187.23	1/2	3,548.49
3/4	320.26	3/4	681.64	3/4	1,036.71	3/4	1,388.02	3/4	1,749.41	3/4	2,110.80	3/4	2,472.18	3/4	2,833.50	3/4	3,194.76	3/4	3,556.02
11	327.79	11	689.17	11	1,043.90	11	1,395.55	11	1,756.94	11	2,118.33	11	2,479.71	11	2,841.03	11	3,202.29	11	3,563.54
1/4	335.32	1/4	696.70	1/4	1,051.08	1/4	1,403.08	1/4	1,764.47	1/4	2,125.85	1/4	2,487.24	1/4	2,848.55	1/4	3,209.81	1/4	3,571.07
1/2	342.85	1/2	704.22	1/2	1,058.27	1/2	1,410.61	1/2	1,772.00	1/2	2,133.38	1/2	2,494.77	1/2	2,856.08	1/2	3,217.34	1/2	3,578.60
3/4	350.37	3/4	711.75	3/4	1,065.46	3/4	1,418.14	3/4	1,779.53	3/4	2,140.91	3/4	2,502.30	3/4	2,863.61	3/4	3,224.86	3/4	3,586.12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3149"

2 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,593.65	0	3,954.87	0	4,308.55	0	4,649.00	0	4,974.73	0		0		0		0		0	
1/4	3,601.17	1/4	3,962.36	1/4	4,315.76	1/4	4,655.94	1/4	4,981.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,608.70	1/2	3,969.85	1/2	4,322.98	1/2	4,662.88	1/2	4,987.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.23	3/4	3,977.35	3/4	4,330.20	3/4	4,669.83	3/4	4,994.44	3/4		3/4		3/4		3/4		3/4	
1	3,623.75	1	3,984.84	1	4,337.42	1	4,676.77	1	5,001.01	1		1		1		1		1	
1/4	3,631.28	1/4	3,992.32	1/4	4,344.62	1/4	4,683.67	1/4	5,007.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.81	1/2	3,999.79	1/2	4,351.81	1/2	4,690.56	1/2	5,014.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.33	3/4	4,007.26	3/4	4,359.01	3/4	4,697.46	3/4	5,020.65	3/4		3/4		3/4		3/4		3/4	
2	3,653.86	2	4,014.73	2	4,366.21	2	4,704.35	2	5,027.20	2		2		2		2		2	
1/4	3,661.38	1/4	4,022.18	1/4	4,373.38	1/4	4,711.22	1/4	5,033.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.91	1/2	4,029.63	1/2	4,380.55	1/2	4,718.09	1/2	5,040.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.44	3/4	4,037.08	3/4	4,387.73	3/4	4,724.96	3/4	5,046.77	3/4		3/4		3/4		3/4		3/4	
3	3,683.96	3	4,044.53	3	4,394.90	3	4,731.83	3	5,053.29	3		3		3		3		3	
1/4	3,691.49	1/4	4,051.95	1/4	4,402.05	1/4	4,738.67	1/4	5,059.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.02	1/2	4,059.38	1/2	4,409.20	1/2	4,745.52	1/2	5,066.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,706.54	3/4	4,066.80	3/4	4,416.35	3/4	4,752.36	3/4	5,072.80	3/4		3/4		3/4		3/4		3/4	
4	3,714.07	4	4,074.23	4	4,423.50	4	4,759.21	4	5,079.30	4		4		4		4		4	
1/4	3,721.59	1/4	4,081.63	1/4	4,430.63	1/4	4,766.03	1/4	5,085.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.12	1/2	4,089.03	1/2	4,437.75	1/2	4,772.85	1/2	5,092.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,736.65	3/4	4,096.44	3/4	4,444.88	3/4	4,779.68	3/4	5,098.73	3/4		3/4		3/4		3/4		3/4	
5	3,744.17	5	4,103.84	5	4,452.01	5	4,786.50	5	5,105.21	5		5		5		5		5	
1/4	3,751.70	1/4	4,111.22	1/4	4,459.11	1/4	4,793.30	1/4	5,112.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.22	1/2	4,118.60	1/2	4,466.22	1/2	4,800.10	1/2	5,119.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,766.75	3/4	4,125.98	3/4	4,473.32	3/4	4,806.90	3/4	5,126.73	3/4		3/4		3/4		3/4		3/4	
6	3,774.28	6	4,133.36	6	4,480.42	6	4,813.70	6	5,133.90	6		6		6		6		6	
1/4	3,781.80	1/4	4,140.72	1/4	4,487.51	1/4	4,820.47	1/4	5,140.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,789.33	1/2	4,148.07	1/2	4,494.59	1/2	4,827.25	1/2	5,146.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,796.86	3/4	4,155.43	3/4	4,501.67	3/4	4,834.03	3/4	5,152.83	3/4		3/4		3/4		3/4		3/4	
7	3,804.38	7	4,162.79	7	4,508.75	7	4,840.80	7	5,159.14	7		7		7		7		7	
1/4	3,811.91	1/4	4,170.12	1/4	4,515.81	1/4	4,847.56	1/4	5,164.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,819.43	1/2	4,177.45	1/2	4,522.87	1/2	4,854.31	1/2	5,169.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,826.96	3/4	4,184.79	3/4	4,529.92	3/4	4,861.06	3/4	5,174.44	3/4		3/4		3/4		3/4		3/4	
8	3,834.49	8	4,192.12	8	4,536.98	8	4,867.82	8	5,179.54	8		8		8		8		8	
1/4	3,842.01	1/4	4,199.43	1/4	4,544.02	1/4	4,874.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,849.54	1/2	4,206.74	1/2	4,551.05	1/2	4,881.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,857.07	3/4	4,214.05	3/4	4,558.09	3/4	4,888.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,864.59	9	4,221.37	9	4,565.12	9	4,894.74	9		9		9		9		9		9	
1/4	3,872.12	1/4	4,228.65	1/4	4,572.14	1/4	4,901.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,879.64	1/2	4,235.94	1/2	4,579.15	1/2	4,908.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.17	3/4	4,243.23	3/4	4,586.16	3/4	4,914.87	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,894.70	10	4,250.52	10	4,593.17	10	4,921.58	10		10		10		10		10		10	
1/4	3,902.22	1/4	4,257.78	1/4	4,600.16	1/4	4,928.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,909.75	1/2	4,265.05	1/2	4,607.15	1/2	4,934.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.27	3/4	4,272.31	3/4	4,614.14	3/4	4,941.64	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,924.80	11	4,279.58	11	4,621.13	11	4,948.33	11		11		11		11		11		11	
1/4	3,932.32	1/4	4,286.82	1/4	4,628.10	1/4	4,954.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,939.83	1/2	4,294.06	1/2	4,635.06	1/2	4,961.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,947.35	3/4	4,301.30	3/4	4,642.03	3/4	4,968.13	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023

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



BARGE "HSM 3149"

3 PORT

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	21.29	0	357.37	0	718.21	0	1,078.84	0	1,439.53	0	1,800.37	0	2,161.20	0	2,521.97	0	2,882.54	0	3,242.23
1/4	25.52	1/4	364.89	1/4	725.72	1/4	1,086.35	1/4	1,447.04	1/4	1,807.89	1/4	2,168.72	1/4	2,529.49	1/4	2,890.04	1/4	3,249.70
1/2	29.74	1/2	372.41	1/2	733.24	1/2	1,093.86	1/2	1,454.56	1/2	1,815.41	1/2	2,176.23	1/2	2,537.00	1/2	2,897.55	1/2	3,257.17
3/4	33.97	3/4	379.92	3/4	740.76	3/4	1,101.37	3/4	1,462.08	3/4	1,822.93	3/4	2,183.75	3/4	2,544.52	3/4	2,905.05	3/4	3,264.64
1	38.20	1	387.44	1	748.28	1	1,108.88	1	1,469.60	1	1,830.45	1	2,191.27	1	2,552.03	1	2,912.55	1	3,272.10
1/4	43.68	1/4	394.96	1/4	755.79	1/4	1,116.38	1/4	1,477.11	1/4	1,837.96	1/4	2,198.78	1/4	2,559.55	1/4	2,920.05	1/4	3,279.57
1/2	49.16	1/2	402.48	1/2	763.31	1/2	1,123.89	1/2	1,484.63	1/2	1,845.48	1/2	2,206.30	1/2	2,567.07	1/2	2,927.55	1/2	3,287.04
3/4	54.64	3/4	409.99	3/4	770.83	3/4	1,131.40	3/4	1,492.15	3/4	1,853.00	3/4	2,213.81	3/4	2,574.58	3/4	2,935.06	3/4	3,294.51
2	60.12	2	417.51	2	778.35	2	1,138.91	2	1,499.67	2	1,860.52	2	2,221.33	2	2,582.10	2	2,942.56	2	3,301.97
1/4	66.86	1/4	425.03	1/4	785.86	1/4	1,146.42	1/4	1,507.18	1/4	1,868.03	1/4	2,228.85	1/4	2,589.61	1/4	2,950.06	1/4	3,309.44
1/2	73.59	1/2	432.55	1/2	793.38	1/2	1,153.93	1/2	1,514.70	1/2	1,875.55	1/2	2,236.36	1/2	2,597.13	1/2	2,957.56	1/2	3,316.91
3/4	80.32	3/4	440.06	3/4	800.90	3/4	1,161.43	3/4	1,522.22	3/4	1,883.07	3/4	2,243.88	3/4	2,604.65	3/4	2,965.06	3/4	3,324.38
3	87.06	3	447.58	3	808.42	3	1,168.94	3	1,529.74	3	1,890.59	3	2,251.39	3	2,612.16	3	2,972.56	3	3,331.84
1/4	94.50	1/4	455.10	1/4	815.93	1/4	1,176.45	1/4	1,537.26	1/4	1,898.10	1/4	2,258.91	1/4	2,619.68	1/4	2,980.07	1/4	3,339.32
1/2	101.94	1/2	462.61	1/2	823.45	1/2	1,183.96	1/2	1,544.77	1/2	1,905.62	1/2	2,266.43	1/2	2,627.19	1/2	2,987.57	1/2	3,346.80
3/4	109.38	3/4	470.13	3/4	830.97	3/4	1,191.47	3/4	1,552.29	3/4	1,913.14	3/4	2,273.94	3/4	2,634.70	3/4	2,995.07	3/4	3,354.29
4	116.81	4	477.65	4	838.48	4	1,198.98	4	1,559.81	4	1,920.66	4	2,281.46	4	2,642.22	4	3,002.57	4	3,361.77
1/4	124.33	1/4	485.17	1/4	846.00	1/4	1,206.49	1/4	1,567.33	1/4	1,928.18	1/4	2,288.97	1/4	2,649.73	1/4	3,010.07	1/4	3,369.25
1/2	131.85	1/2	492.68	1/2	853.52	1/2	1,214.00	1/2	1,574.84	1/2	1,935.69	1/2	2,296.49	1/2	2,657.25	1/2	3,017.58	1/2	3,376.73
3/4	139.37	3/4	500.20	3/4	861.04	3/4	1,221.52	3/4	1,582.36	3/4	1,943.21	3/4	2,304.01	3/4	2,664.76	3/4	3,025.08	3/4	3,384.22
5	146.88	5	507.72	5	868.55	5	1,229.03	5	1,589.88	5	1,950.73	5	2,311.52	5	2,672.28	5	3,032.58	5	3,391.70
1/4	154.40	1/4	515.24	1/4	876.07	1/4	1,236.55	1/4	1,597.40	1/4	1,958.25	1/4	2,319.04	1/4	2,679.79	1/4	3,040.08	1/4	3,399.18
1/2	161.92	1/2	522.75	1/2	883.59	1/2	1,244.07	1/2	1,604.91	1/2	1,965.76	1/2	2,326.55	1/2	2,687.30	1/2	3,047.58	1/2	3,406.66
3/4	169.44	3/4	530.27	3/4	891.11	3/4	1,251.58	3/4	1,612.43	3/4	1,973.28	3/4	2,334.07	3/4	2,694.82	3/4	3,055.08	3/4	3,414.15
6	176.95	6	537.79	6	898.62	6	1,259.10	6	1,619.95	6	1,980.80	6	2,341.59	6	2,702.33	6	3,062.59	6	3,421.63
1/4	184.47	1/4	545.31	1/4	906.14	1/4	1,266.62	1/4	1,627.47	1/4	1,988.32	1/4	2,349.10	1/4	2,709.85	1/4	3,070.09	1/4	3,429.11
1/2	191.99	1/2	552.82	1/2	913.65	1/2	1,274.14	1/2	1,634.99	1/2	1,995.84	1/2	2,356.62	1/2	2,717.36	1/2	3,077.59	1/2	3,436.60
3/4	199.51	3/4	560.34	3/4	921.16	3/4	1,281.65	3/4	1,642.50	3/4	2,003.35	3/4	2,364.13	3/4	2,724.88	3/4	3,085.09	3/4	3,444.08
7	207.02	7	567.86	7	928.68	7	1,289.17	7	1,650.02	7	2,010.87	7	2,371.65	7	2,732.39	7	3,092.59	7	3,451.56
1/4	214.54	1/4	575.38	1/4	936.18	1/4	1,296.69	1/4	1,657.54	1/4	2,018.39	1/4	2,379.17	1/4	2,739.91	1/4	3,100.10	1/4	3,459.05
1/2	222.06	1/2	582.89	1/2	943.69	1/2	1,304.21	1/2	1,665.06	1/2	2,025.91	1/2	2,386.68	1/2	2,747.42	1/2	3,107.60	1/2	3,466.53
3/4	229.58	3/4	590.41	3/4	951.20	3/4	1,311.72	3/4	1,672.57	3/4	2,033.42	3/4	2,394.20	3/4	2,754.93	3/4	3,115.10	3/4	3,474.01
8	237.09	8	597.93	8	958.71	8	1,319.24	8	1,680.09	8	2,040.94	8	2,401.71	8	2,762.45	8	3,122.60	8	3,481.49
1/4	244.61	1/4	605.45	1/4	966.22	1/4	1,326.76	1/4	1,687.61	1/4	2,048.46	1/4	2,409.23	1/4	2,769.97	1/4	3,130.10	1/4	3,488.98
1/2	252.13	1/2	612.96	1/2	973.73	1/2	1,334.28	1/2	1,695.13	1/2	2,055.98	1/2	2,416.75	1/2	2,777.48	1/2	3,137.60	1/2	3,496.46
3/4	259.65	3/4	620.48	3/4	981.24	3/4	1,341.80	3/4	1,702.64	3/4	2,063.49	3/4	2,424.26	3/4	2,785.00	3/4	3,145.11	3/4	3,503.94
9	267.16	9	628.00	9	988.74	9	1,349.31	9	1,710.16	9	2,071.01	9	2,431.78	9	2,792.51	9	3,152.61	9	3,511.43
1/4	274.68	1/4	635.52	1/4	996.25	1/4	1,356.83	1/4	1,717.68	1/4	2,078.53	1/4	2,439.29	1/4	2,800.02	1/4	3,160.08	1/4	3,518.90
1/2	282.20	1/2	643.03	1/2	1,003.76	1/2	1,364.35	1/2	1,725.20	1/2	2,086.04	1/2	2,446.81	1/2	2,807.52	1/2	3,167.55	1/2	3,526.38
3/4	289.71	3/4	650.55	3/4	1,011.27	3/4	1,371.87	3/4	1,732.72	3/4	2,093.56	3/4	2,454.33	3/4	2,815.02	3/4	3,175.02	3/4	3,533.85
10	297.23	10	658.07	10	1,018.78	10	1,379.38	10	1,740.23	10	2,101.07	10	2,461.84	10	2,822.53	10	3,182.49	10	3,541.33
1/4	304.75	1/4	665.58	1/4	1,026.29	1/4	1,386.90	1/4	1,747.75	1/4	2,108.59	1/4	2,469.36	1/4	2,830.03	1/4	3,189.96	1/4	3,548.80
1/2	312.27	1/2	673.10	1/2	1,033.79	1/2	1,394.42	1/2	1,755.27	1/2	2,116.11	1/2	2,476.87	1/2	2,837.53	1/2	3,197.43	1/2	3,556.28
3/4	319.78	3/4	680.62	3/4	1,041.30	3/4	1,401.94	3/4	1,762.79	3/4	2,123.62	3/4	2,484.39	3/4	2,845.03	3/4	3,204.90	3/4	3,563.75
11	327.30	11	688.14	11	1,048.81	11	1,409.45	11	1,770.30	11	2,131.14	11	2,491.91	11	2,852.54	11	3,212.36	11	3,571.23
1/4	334.82	1/4	695.65	1/4	1,056.32	1/4	1,416.97	1/4	1,777.82	1/4	2,138.65	1/4	2,499.42	1/4	2,860.04	1/4	3,219.83	1/4	3,578.70
1/2	342.34	1/2	703.17	1/2	1,063.83	1/2	1,424.49	1/2	1,785.34	1/2	2,146.17	1/2	2,506.94	1/2	2,867.54	1/2	3,227.30	1/2	3,586.18
3/4	349.85	3/4	710.69	3/4	1,071.33	3/4	1,432.01	3/4	1,792.86	3/4	2,153.69	3/4	2,514.45	3/4	2,875.04	3/4	3,234.77	3/4	3,593.65

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

3 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,561.69	0	3,755.84	0	3,945.94	0	4,128.93	0	4,304.06	0		0		0		0		0	
1/4	3,565.73	1/4	3,759.86	1/4	3,949.82	1/4	4,132.67	1/4	4,307.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.78	1/2	3,763.89	1/2	3,953.70	1/2	4,136.40	1/2	4,311.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.83	3/4	3,767.92	3/4	3,957.58	3/4	4,140.13	3/4	4,314.65	3/4		3/4		3/4		3/4		3/4	
1	3,577.87	1	3,771.95	1	3,961.46	1	4,143.86	1	4,318.18	1		1		1		1		1	
1/4	3,581.92	1/4	3,775.97	1/4	3,965.32	1/4	4,147.57	1/4	4,321.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.96	1/2	3,779.98	1/2	3,969.19	1/2	4,151.28	1/2	4,325.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,590.01	3/4	3,784.00	3/4	3,973.06	3/4	4,154.98	3/4	4,328.74	3/4		3/4		3/4		3/4		3/4	
2	3,594.05	2	3,788.01	2	3,976.93	2	4,158.69	2	4,332.26	2		2		2		2		2	
1/4	3,598.10	1/4	3,792.02	1/4	3,980.78	1/4	4,162.38	1/4	4,335.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.14	1/2	3,796.02	1/2	3,984.64	1/2	4,166.08	1/2	4,339.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,606.19	3/4	3,800.02	3/4	3,988.50	3/4	4,169.77	3/4	4,342.78	3/4		3/4		3/4		3/4		3/4	
3	3,610.23	3	3,804.03	3	3,992.35	3	4,173.46	3	4,346.28	3		3		3		3		3	
1/4	3,614.28	1/4	3,808.02	1/4	3,996.19	1/4	4,177.14	1/4	4,349.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,618.32	1/2	3,812.01	1/2	4,000.04	1/2	4,180.82	1/2	4,353.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,622.37	3/4	3,816.00	3/4	4,003.88	3/4	4,184.51	3/4	4,356.77	3/4		3/4		3/4		3/4		3/4	
4	3,626.41	4	3,819.99	4	4,007.72	4	4,188.19	4	4,360.26	4		4		4		4		4	
1/4	3,630.46	1/4	3,823.97	1/4	4,011.55	1/4	4,191.85	1/4	4,363.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,634.50	1/2	3,827.95	1/2	4,015.39	1/2	4,195.52	1/2	4,367.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.55	3/4	3,831.93	3/4	4,019.22	3/4	4,199.19	3/4	4,370.71	3/4		3/4		3/4		3/4		3/4	
5	3,642.59	5	3,835.91	5	4,023.05	5	4,202.86	5	4,374.19	5		5		5		5		5	
1/4	3,646.64	1/4	3,839.87	1/4	4,026.87	1/4	4,206.52	1/4	4,377.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,650.68	1/2	3,843.84	1/2	4,030.68	1/2	4,210.17	1/2	4,381.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,654.73	3/4	3,847.81	3/4	4,034.50	3/4	4,213.83	3/4	4,385.57	3/4		3/4		3/4		3/4		3/4	
6	3,658.77	6	3,851.77	6	4,038.32	6	4,217.48	6	4,389.36	6		6		6		6		6	
1/4	3,662.82	1/4	3,855.73	1/4	4,042.13	1/4	4,221.13	1/4	4,392.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.86	1/2	3,859.68	1/2	4,045.93	1/2	4,224.77	1/2	4,395.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,670.91	3/4	3,863.64	3/4	4,049.74	3/4	4,228.41	3/4	4,397.99	3/4		3/4		3/4		3/4		3/4	
7	3,674.96	7	3,867.59	7	4,053.55	7	4,232.06	7	4,400.87	7		7		7		7		7	
1/4	3,679.00	1/4	3,871.53	1/4	4,057.34	1/4	4,235.69	1/4	4,402.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,683.05	1/2	3,875.47	1/2	4,061.14	1/2	4,239.32	1/2	4,404.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,687.09	3/4	3,879.42	3/4	4,064.93	3/4	4,242.95	3/4	4,405.84	3/4		3/4		3/4		3/4		3/4	
8	3,691.14	8	3,883.36	8	4,068.72	8	4,246.58	8	4,407.49	8		8		8		8		8	
1/4	3,695.18	1/4	3,887.29	1/4	4,072.50	1/4	4,250.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,699.23	1/2	3,891.22	1/2	4,076.29	1/2	4,253.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,703.27	3/4	3,895.15	3/4	4,080.07	3/4	4,257.44	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,707.32	9	3,899.08	9	4,083.85	9	4,261.06	9		9		9		9		9		9	
1/4	3,711.36	1/4	3,902.99	1/4	4,087.62	1/4	4,264.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,715.41	1/2	3,906.91	1/2	4,091.39	1/2	4,268.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.45	3/4	3,910.83	3/4	4,095.16	3/4	4,271.88	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,723.50	10	3,914.75	10	4,098.93	10	4,275.49	10		10		10		10		10		10	
1/4	3,727.54	1/4	3,918.65	1/4	4,102.68	1/4	4,279.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,731.59	1/2	3,922.56	1/2	4,106.44	1/2	4,282.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,735.63	3/4	3,926.46	3/4	4,110.20	3/4	4,286.27	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,739.68	11	3,930.37	11	4,113.95	11	4,289.86	11		11		11		11		11		11	
1/4	3,743.72	1/4	3,934.26	1/4	4,117.70	1/4	4,293.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,747.76	1/2	3,938.15	1/2	4,121.44	1/2	4,296.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,751.80	3/4	3,942.04	3/4	4,125.19	3/4	4,300.51	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023

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



BARGE "HSM 3149"

3 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	21.23	0	356.22	0	715.89	0	1,063.99	0	1,417.07	0	1,776.11	0	2,135.65	0	2,495.13	0	2,854.43	0	3,212.65
1/4	25.45	1/4	363.71	1/4	723.38	1/4	1,071.15	1/4	1,424.50	1/4	1,783.60	1/4	2,143.14	1/4	2,502.62	1/4	2,861.90	1/4	3,220.09
1/2	29.67	1/2	371.21	1/2	730.88	1/2	1,078.30	1/2	1,431.93	1/2	1,791.09	1/2	2,150.63	1/2	2,510.11	1/2	2,869.38	1/2	3,227.53
3/4	33.89	3/4	378.70	3/4	738.37	3/4	1,085.46	3/4	1,439.36	3/4	1,798.58	3/4	2,158.12	3/4	2,517.60	3/4	2,876.85	3/4	3,234.97
1	38.11	1	386.19	1	745.86	1	1,092.61	1	1,446.78	1	1,806.07	1	2,165.61	1	2,525.09	1	2,884.33	1	3,242.42
1/4	43.57	1/4	393.69	1/4	753.36	1/4	1,099.77	1/4	1,454.21	1/4	1,813.56	1/4	2,173.10	1/4	2,532.58	1/4	2,891.79	1/4	3,249.86
1/2	49.03	1/2	401.18	1/2	760.85	1/2	1,106.92	1/2	1,461.64	1/2	1,821.06	1/2	2,180.59	1/2	2,540.07	1/2	2,899.26	1/2	3,257.30
3/4	54.49	3/4	408.67	3/4	768.34	3/4	1,114.08	3/4	1,469.07	3/4	1,828.55	3/4	2,188.07	3/4	2,547.56	3/4	2,906.73	3/4	3,264.74
2	59.95	2	416.17	2	775.84	2	1,121.23	2	1,476.50	2	1,836.04	2	2,195.56	2	2,555.05	2	2,914.20	2	3,272.18
1/4	66.66	1/4	423.66	1/4	783.33	1/4	1,128.39	1/4	1,483.98	1/4	1,843.53	1/4	2,203.05	1/4	2,562.53	1/4	2,921.67	1/4	3,279.62
1/2	73.36	1/2	431.15	1/2	790.82	1/2	1,135.54	1/2	1,491.47	1/2	1,851.02	1/2	2,210.54	1/2	2,570.02	1/2	2,929.13	1/2	3,287.06
3/4	80.06	3/4	438.65	3/4	798.31	3/4	1,142.70	3/4	1,498.95	3/4	1,858.51	3/4	2,218.03	3/4	2,577.51	3/4	2,936.60	3/4	3,294.50
3	86.76	3	446.14	3	805.81	3	1,149.85	3	1,506.43	3	1,866.00	3	2,225.52	3	2,585.00	3	2,944.07	3	3,301.94
1/4	94.18	1/4	453.63	1/4	813.05	1/4	1,157.26	1/4	1,513.92	1/4	1,873.49	1/4	2,233.01	1/4	2,592.49	1/4	2,951.54	1/4	3,309.40
1/2	101.59	1/2	461.12	1/2	820.29	1/2	1,164.66	1/2	1,521.42	1/2	1,880.98	1/2	2,240.50	1/2	2,599.98	1/2	2,959.00	1/2	3,316.85
3/4	109.00	3/4	468.62	3/4	827.54	3/4	1,172.07	3/4	1,528.91	3/4	1,888.47	3/4	2,247.99	3/4	2,607.47	3/4	2,966.47	3/4	3,324.31
4	116.42	4	476.11	4	834.78	4	1,179.47	4	1,536.40	4	1,895.97	4	2,255.48	4	2,614.95	4	2,973.94	4	3,331.76
1/4	123.92	1/4	483.60	1/4	841.97	1/4	1,186.88	1/4	1,543.89	1/4	1,903.46	1/4	2,262.97	1/4	2,622.44	1/4	2,981.41	1/4	3,339.22
1/2	131.42	1/2	491.10	1/2	849.15	1/2	1,194.30	1/2	1,551.38	1/2	1,910.95	1/2	2,270.46	1/2	2,629.93	1/2	2,988.87	1/2	3,346.67
3/4	138.91	3/4	498.59	3/4	856.34	3/4	1,201.71	3/4	1,558.87	3/4	1,918.44	3/4	2,277.95	3/4	2,637.42	3/4	2,996.34	3/4	3,354.13
5	146.41	5	506.08	5	863.52	5	1,209.13	5	1,566.36	5	1,925.93	5	2,285.43	5	2,644.91	5	3,003.81	5	3,361.58
1/4	153.91	1/4	513.58	1/4	870.70	1/4	1,216.54	1/4	1,573.85	1/4	1,933.42	1/4	2,292.92	1/4	2,652.39	1/4	3,011.28	1/4	3,369.04
1/2	161.40	1/2	521.07	1/2	877.88	1/2	1,223.95	1/2	1,581.34	1/2	1,940.91	1/2	2,300.41	1/2	2,659.88	1/2	3,018.74	1/2	3,376.50
3/4	168.89	3/4	528.56	3/4	885.06	3/4	1,231.36	3/4	1,588.83	3/4	1,948.40	3/4	2,307.90	3/4	2,667.37	3/4	3,026.21	3/4	3,383.95
6	176.39	6	536.06	6	892.24	6	1,238.78	6	1,596.33	6	1,955.89	6	2,315.39	6	2,674.86	6	3,033.68	6	3,391.41
1/4	183.88	1/4	543.55	1/4	899.40	1/4	1,246.20	1/4	1,603.82	1/4	1,963.38	1/4	2,322.88	1/4	2,682.34	1/4	3,041.15	1/4	3,398.87
1/2	191.37	1/2	551.04	1/2	906.57	1/2	1,253.63	1/2	1,611.31	1/2	1,970.88	1/2	2,330.37	1/2	2,689.83	1/2	3,048.61	1/2	3,406.32
3/4	198.87	3/4	558.54	3/4	913.73	3/4	1,261.06	3/4	1,618.80	3/4	1,978.37	3/4	2,337.86	3/4	2,697.32	3/4	3,056.08	3/4	3,413.78
7	206.36	7	566.03	7	920.89	7	1,268.48	7	1,626.29	7	1,985.86	7	2,345.35	7	2,704.81	7	3,063.55	7	3,421.24
1/4	213.85	1/4	573.52	1/4	928.04	1/4	1,275.91	1/4	1,633.78	1/4	1,993.35	1/4	2,352.84	1/4	2,712.30	1/4	3,071.02	1/4	3,428.69
1/2	221.35	1/2	581.01	1/2	935.20	1/2	1,283.34	1/2	1,641.27	1/2	2,000.84	1/2	2,360.33	1/2	2,719.78	1/2	3,078.50	1/2	3,436.15
3/4	228.84	3/4	588.51	3/4	942.35	3/4	1,290.77	3/4	1,648.76	3/4	2,008.33	3/4	2,367.82	3/4	2,727.27	3/4	3,085.97	3/4	3,443.60
8	236.33	8	596.00	8	949.51	8	1,298.20	8	1,656.25	8	2,015.82	8	2,375.30	8	2,734.76	8	3,093.45	8	3,451.06
1/4	243.83	1/4	603.49	1/4	956.66	1/4	1,305.63	1/4	1,663.74	1/4	2,023.31	1/4	2,382.79	1/4	2,742.25	1/4	3,100.92	1/4	3,458.52
1/2	251.32	1/2	610.99	1/2	963.82	1/2	1,313.06	1/2	1,671.24	1/2	2,030.80	1/2	2,390.28	1/2	2,749.74	1/2	3,108.40	1/2	3,465.97
3/4	258.81	3/4	618.48	3/4	970.97	3/4	1,320.49	3/4	1,678.73	3/4	2,038.29	3/4	2,397.77	3/4	2,757.23	3/4	3,115.87	3/4	3,473.43
9	266.30	9	625.97	9	978.13	9	1,327.92	9	1,686.22	9	2,045.78	9	2,405.26	9	2,764.72	9	3,123.35	9	3,480.89
1/4	273.80	1/4	633.47	1/4	985.29	1/4	1,335.35	1/4	1,693.71	1/4	2,053.27	1/4	2,412.75	1/4	2,772.19	1/4	3,130.79	1/4	3,488.34
1/2	281.29	1/2	640.96	1/2	992.44	1/2	1,342.78	1/2	1,701.20	1/2	2,060.76	1/2	2,420.24	1/2	2,779.67	1/2	3,138.24	1/2	3,489.79
3/4	288.78	3/4	648.45	3/4	999.60	3/4	1,350.20	3/4	1,708.69	3/4	2,068.25	3/4	2,427.73	3/4	2,787.15	3/4	3,145.68	3/4	3,494.24
10	296.28	10	655.95	10	1,006.75	10	1,357.63	10	1,716.18	10	2,075.74	10	2,435.22	10	2,794.62	10	3,153.13	10	3,498.69
1/4	303.77	1/4	663.44	1/4	1,013.91	1/4	1,365.06	1/4	1,723.67	1/4	2,083.23	1/4	2,442.71	1/4	2,802.10	1/4	3,160.57	1/4	3,502.72
1/2	311.26	1/2	670.93	1/2	1,021.06	1/2	1,372.49	1/2	1,731.16	1/2	2,090.72	1/2	2,450.20	1/2	2,809.57	1/2	3,168.01	1/2	3,506.74
3/4	318.76	3/4	678.42	3/4	1,028.22	3/4	1,379.92	3/4	1,738.65	3/4	2,098.20	3/4	2,457.69	3/4	2,817.05	3/4	3,175.45	3/4	3,510.76
11	326.25	11	685.92	11	1,035.37	11	1,387.35	11	1,746.15	11	2,105.69	11	2,465.18	11	2,824.53	11	3,182.89	11	3,514.79
1/4	333.74	1/4	693.41	1/4	1,042.53	1/4	1,394.78	1/4	1,753.64	1/4	2,113.18	1/4	2,472.66	1/4	2,832.00	1/4	3,190.33	1/4	3,518.81
1/2	341.24	1/2	700.90	1/2	1,049.68	1/2	1,402.21	1/2	1,761.13	1/2	2,120.67	1/2	2,480.15	1/2	2,839.48	1/2	3,197.77	1/2	3,522.83
3/4	348.73	3/4	708.40	3/4	1,056.84	3/4	1,409.64	3/4	1,768.62	3/4	2,128.16	3/4	2,487.64	3/4	2,846.95	3/4	3,205.21	3/4	3,526.85

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

3 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,530.88	0	3,723.94	0	3,912.96	0	4,094.89	0	4,268.96	0		0		0		0		0	
1/4	3,534.90	1/4	3,727.95	1/4	3,916.82	1/4	4,098.60	1/4	4,272.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.92	1/2	3,731.95	1/2	3,920.68	1/2	4,102.31	1/2	4,275.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,542.94	3/4	3,735.96	3/4	3,924.54	3/4	4,106.02	3/4	4,279.49	3/4		3/4		3/4		3/4		3/4	
1	3,546.97	1	3,739.96	1	3,928.40	1	4,109.73	1	4,283.00	1		1		1		1		1	
1/4	3,550.99	1/4	3,743.96	1/4	3,932.24	1/4	4,113.42	1/4	4,286.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.01	1/2	3,747.95	1/2	3,936.09	1/2	4,117.10	1/2	4,289.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.03	3/4	3,751.94	3/4	3,939.93	3/4	4,120.79	3/4	4,293.49	3/4		3/4		3/4		3/4		3/4	
2	3,563.06	2	3,755.94	2	3,943.78	2	4,124.47	2	4,296.98	2		2		2		2		2	
1/4	3,567.08	1/4	3,759.92	1/4	3,947.61	1/4	4,128.14	1/4	4,300.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.10	1/2	3,763.90	1/2	3,951.44	1/2	4,131.81	1/2	4,303.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,575.12	3/4	3,767.88	3/4	3,955.28	3/4	4,135.49	3/4	4,307.44	3/4		3/4		3/4		3/4		3/4	
3	3,579.15	3	3,771.86	3	3,959.11	3	4,139.16	3	4,310.92	3		3		3		3		3	
1/4	3,583.17	1/4	3,775.83	1/4	3,962.93	1/4	4,142.82	1/4	4,314.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.19	1/2	3,779.80	1/2	3,966.75	1/2	4,146.47	1/2	4,317.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,591.21	3/4	3,783.77	3/4	3,970.57	3/4	4,150.13	3/4	4,321.34	3/4		3/4		3/4		3/4		3/4	
4	3,595.24	4	3,787.74	4	3,974.39	4	4,153.79	4	4,324.81	4		4		4		4		4	
1/4	3,599.26	1/4	3,791.69	1/4	3,978.20	1/4	4,157.44	1/4	4,328.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.28	1/2	3,795.65	1/2	3,982.01	1/2	4,161.08	1/2	4,331.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,607.30	3/4	3,799.61	3/4	3,985.82	3/4	4,164.73	3/4	4,335.19	3/4		3/4		3/4		3/4		3/4	
5	3,611.33	5	3,803.56	5	3,989.63	5	4,168.38	5	4,338.65	5		5		5		5		5	
1/4	3,615.35	1/4	3,807.51	1/4	3,993.43	1/4	4,172.01	1/4	4,342.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.37	1/2	3,811.45	1/2	3,997.22	1/2	4,175.64	1/2	4,346.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,623.40	3/4	3,815.39	3/4	4,001.02	3/4	4,179.28	3/4	4,349.96	3/4		3/4		3/4		3/4		3/4	
6	3,627.42	6	3,819.34	6	4,004.81	6	4,182.91	6	4,353.74	6		6		6		6		6	
1/4	3,631.44	1/4	3,823.27	1/4	4,008.60	1/4	4,186.53	1/4	4,356.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.46	1/2	3,827.20	1/2	4,012.38	1/2	4,190.16	1/2	4,359.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.49	3/4	3,831.13	3/4	4,016.17	3/4	4,193.78	3/4	4,362.31	3/4		3/4		3/4		3/4		3/4	
7	3,643.51	7	3,835.07	7	4,019.95	7	4,197.40	7	4,365.16	7		7		7		7		7	
1/4	3,647.53	1/4	3,838.99	1/4	4,023.72	1/4	4,201.01	1/4	4,366.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,651.55	1/2	3,842.91	1/2	4,027.49	1/2	4,204.62	1/2	4,368.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,655.58	3/4	3,846.82	3/4	4,031.27	3/4	4,208.23	3/4	4,370.07	3/4		3/4		3/4		3/4		3/4	
8	3,659.60	8	3,850.74	8	4,035.04	8	4,211.84	8	4,371.71	8		8		8		8		8	
1/4	3,663.62	1/4	3,854.65	1/4	4,038.80	1/4	4,215.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,667.64	1/2	3,858.56	1/2	4,042.56	1/2	4,219.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,671.67	3/4	3,862.47	3/4	4,046.32	3/4	4,222.63	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,675.69	9	3,866.37	9	4,050.08	9	4,226.22	9		9		9		9		9		9	
1/4	3,679.71	1/4	3,870.27	1/4	4,053.82	1/4	4,229.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,683.73	1/2	3,874.16	1/2	4,057.57	1/2	4,233.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,687.76	3/4	3,878.06	3/4	4,061.32	3/4	4,236.98	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,691.78	10	3,881.95	10	4,065.06	10	4,240.56	10		10		10		10		10		10	
1/4	3,695.80	1/4	3,885.83	1/4	4,068.80	1/4	4,244.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,699.82	1/2	3,889.72	1/2	4,072.53	1/2	4,247.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,703.85	3/4	3,893.60	3/4	4,076.27	3/4	4,251.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,707.87	11	3,897.48	11	4,080.00	11	4,254.85	11		11		11		11		11		11	
1/4	3,711.89	1/4	3,901.35	1/4	4,083.73	1/4	4,258.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,715.91	1/2	3,905.22	1/2	4,087.45	1/2	4,261.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.92	3/4	3,909.09	3/4	4,091.17	3/4	4,265.43	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
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ALL PRIOR TO 02/2023