









Ship & Barge Calibrators

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8 1/4"

Table with 25 columns (0 FT. to 14 FT.) and multiple rows for each depth (0, 1/4, 1/2, 3/4). Each cell contains a numerical value representing capacity in barrels.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES

DATE STRAPPED: 12-19-2019 BY: AP

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE COMPUTED: 1/9/2020 BY: WHF

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

DATE ISSUED: 1/27/2020

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

IVC MARINE

Handwritten signature of a representative from IVC Marine.



Ship & Barge Calibrators CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 7 3/4"

Table with 26 columns (IN, 0 FT., IN, 1 FT., IN, 2 FT., IN, 3 FT., IN, 4 FT., IN, 5 FT., IN, 6 FT., IN, 7 FT., IN, 8 FT., IN, 9 FT., IN, 10 FT., IN, 11 FT., IN, 12 FT., IN, 13 FT., IN, 14 FT.) and multiple rows of capacity data for each height.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE. NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED. NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL. NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED: 12-19-2019 BY: AP DATE COMPUTED: 1/9/2020 BY: WHF DATE ISSUED: 1/27/2020



CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8"

Table with columns for height (IN, 0 FT., 1 FT., 2 FT., 3 FT., 4 FT., 5 FT., 6 FT., 7 FT., 8 FT., 9 FT., 10 FT., 11 FT., 12 FT., 13 FT., 14 FT.) and rows for measurement points (0, 1/4, 1/2, 3/4) for each height. Values represent capacity in barrels.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE STRAPPED: 1004.736 BY: AP

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

DATE COMPUTED: 1118.8899 BY: WHF

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

DATE ISSUED: 1/27/2020

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7







CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8 1/2"

Table with columns for depth (0 FT. to 14 FT.) and rows for gauge height (0, 1/4, 1/2, 3/4). Each cell contains capacity values for different gauge heights.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE. NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED. NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL. NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

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CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8 1/4"

Table with 25 columns (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., IN, 10 FT., IN, 11 FT., IN, 12 FT., IN, 13 FT., IN, 14 FT., IN, 15 FT.) and multiple rows of capacity data for various gauge heights (0, 1/4, 1/2, 3/4) and tank levels (0-11).

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES

DATE STRAPPED: 12-19-2019 BY: AP

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

DATE COMPUTED: 1/9/2020 BY: WHF

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

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IVC MARINE





Table with columns for depth (IN, 1 FT., 1/4, 1/2, 3/4) and capacity (0-15 FT.). Each depth row contains capacity values for 24 different tank sections.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL.
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

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CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8"

Table with columns for depth (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., IN, 10 FT., IN, 11 FT., IN, 12 FT., IN, 13 FT., IN, 14 FT., IN, 15 FT.) and rows for depth increments (0, 1/4, 1/2, 3/4) for each foot.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

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CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15' 8 1/2"

Table with 25 columns (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., IN, 10 FT., IN, 11 FT., IN, 12 FT., IN, 13 FT., IN, 14 FT., IN, 15 FT.) and 100 rows of capacity data.

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL.
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Table with 25 columns representing height intervals from 0 to 15 FT. and 4 rows per interval representing different gauge levels (1/4, 1/2, 3/4).

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 14 1/2" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7







Independent Vessel Calibration

Ship & Barge Calibrators

BARGE: HFL 449

HULL NO: C&C MARINE 334

CLOSED GAUGING ONLY

1 PORT HERMETIC ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-2 3/4"

Table with 30 columns (0-17 FT. IN) and 28 rows (0-10 FT. with 1/4, 1/2, 3/4 increments). Each cell contains capacity values in barrels.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

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DATE STRAPPED: 12-19-2019 BY: AP

IVC MARINE

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DATE COMPUTED: 12/19/2020 BY: WHF

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

DATE ISSUED: 1/27/2020

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

Signature of IVC Marine representative





BARGE: HFL 449

HULL NO: C&C MARINE 334

CLOSED GAUGING ONLY

2 STBD HERMETIC ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-2 1/2"

Table with 34 columns (2 FT. to 17 FT.) and 35 rows (0 to 3/4). Each cell contains capacity values for different gauge heights (0, 1/4, 1/2, 3/4) and includes a correction factor in the final column.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12-19-2019 BY: AP

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IVC MARINE



Independent Vessel Calibration

BARGE: HFL 449

HULL NO: C&C MARINE 334

CLOSED GAUGING ONLY

3 PORT HERMETIC ULLAGE TABLE

Ship & Barge Calibrators

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FOR CLOSED GAUGING USING HERMETIC TAPE FITTED ON 2" BALL VALVE

HERMETIC GAUGE HEIGHT: 17'-3"

Table with columns for height (0 to 17 FT) and fractional gauging (0, 1/4, 1/2, 3/4) for each foot. Each cell contains capacity values in barrels.

NOTE: FOR CLOSED GAUGING USING HERMETIC GAUGE TAPE

NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK - TRIM CORRECTION NOT REQUIRED.

NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL

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