



EST. WEIGHTS & CAPACITY

FABRICATED WEIGHT	52,501 LBS.
VESSEL LIFT WEIGHT	91,780 LBS.
HYDRO WEIGHT	301,172 LBS.
CAPACITY	30,282 GALS.
INSULATION	7,399 LBS.

GENERAL NOTES:

- 1) FLANGE BOLT HOLES TO STRADDLE VESSEL CENTERLINES UNLESS NOTED OTHERWISE.
- 2) DRILL & TAP 1/4" YELLOW LINE IN REINFORCING PAD.
- 3) OUTSIDE PROJECTION SHOWN IN THE NOZZLE SCHEDULE IS FROM VESSEL O.D. UNLESS NOTED OTHERWISE.
- 4) INSIDE PROJECTION SHOWN IN THE NOZZLE SCHEDULE IS MINIMUM ONLY.
- 5) ALL NOZZLES SHALL BE ADEQUATELY PROTECTED AND COVERED FOR SHIPMENT. INSTALL 1/2" THK. PLYWOOD PROTECTORS ON FLANGES WITHOUT BLIND FLANGES. A MINIMUM OF (4) 3/8" DIA BOLTS FOR 12" AND SMALLER AND (8) 3/8" DIA BOLTS FOR LARGER FLANGES.
- 6) VESSEL TO BE DRAINED, DRYED AND CLEANED BEFORE SHIPMENT.
- 7) ALL FLANGE FACE FINISHES ARE TO BE 125-250 Rm.
- 8) PAINT OR STENCIL P.O. NUMBER & ITEM NO. WITH 3" HIGH LETTERS ON ON SIDE OF VESSEL.
- 9) ALL INTERNALS SHALL BE REMOVABLE THRU VESSEL MANWAYS.
- 10) BLINDED CONNECTIONS FURNISHED WITH BLIND FLANGE, STUDS, NUTS AND (2) GASKETS.
- 11) JOOL ELECTRODES TO BE USED FOR ALL S.S. WELDING.
- 12) PT LIFTING LUGS.
- 13) ALL PRESSURE CONTAINING WELDS SHALL BE GRIND SMOOTH TO REMOVE DISCONTINUITIES SUCH AS UNDERCUTTING AND OVERLAPPING IN THE WELD GEOMETRY.
- 14) MWP LIMITED BY TRANSITION.

CERTIFIED BY
SPECIALTY PROCESS FABRICATORS, INC.

SHELL MAWP 73 PSIG AT 300 °F
SHELL MAEP 15 PSIG AT 300 °F
SHELL MDMT -5 °F AT 73 PSIG

SERIAL XX YEAR BUILT 2007

SpecFab
SPECIALTY PROCESS FABRICATORS, INC.
VICKSBURG, MS 39183

PLAN																
SO	1	SHORT OPENING	28"	----	----	SEE DTL	SHI. #2									
SA	1	SHORT ACCESS	24"	----	----	SEE DTL	SHI. #2									
SV	2	SHORT VENTS	2"	----	----	SEE DTL	SHI. #2									
P	1	STEAM INLET	18"	150#	RFSO	SA-182-F304	S/30	SA-312-TP304	1/8" x 2 1/4"	SA-240-304	6"	FLUSH	#	W	3/8 3/8 5/16	
N	1	PSV	8"	150#	RFSO	SA-182-F304	S/40#	SA-312-TP304	1/4" x 2"	SA-240-304	6"	FLUSH	#	W	5/16 1/4 3/16	
M1/3	3	SIGHT GLASS	3"	150#	RFSO	SA-182-F304	S/40#	SA-312-TP304	----	----	6"	FLUSH	#	W	1/4 1/4	
L1/7	7	SPARE	3/4"	3000#	THRD INFL CPLG	SA-182-F304	----	----	----	----	----	FLUSH	X	----	1/4 W/ PLUG	
K1/3	3	PRESSURE INDICATOR	1/2"	3000#	THRD INFL CPLG	SA-182-F304	----	----	----	----	----	FLUSH	X	----	1/4	
J1/4	4	PRESSURE TRANSMITTER	3"	150#	RFSO	SA-182-F304	S/40#	SA-312-TP304	----	----	6"	FLUSH	#	W	1/4 1/4	
H1/8	8	TELL	3/4"	3000#	THRD INFL CPLG	SA-182-F304	----	----	----	----	----	FLUSH	X	----	1/4	
G1/2	2	LEVEL TRANSMITTER	3"	150#	RFSO	SA-182-F304	S/40#	SA-312-TP304	----	----	6"	FLUSH	#	W	1/4 1/4	
F	1	LIQUID FEED	6"	150#	RFSO	SA-182-F304	S/40#	SA-312-TP304	1/4" x 2"	SA-240-304	6"	FLUSH	#	W	1/4 1/4 3/16	
E	1	REBOILER INLET	20"	150#	RFSO	SA-182-F304	S/20	SA-312-TP304	3/8" x 3 1/4"	SA-240-304	10"	FLUSH	#	W	3/8 3/8 5/16 W/ INLET ORIFITTER	
D	1	VAPOR OUTLET	20"	150#	RFSO	SA-182-F304	S/20	SA-312-TP304	3/8" x 2 1/2"	SA-240-304	10"	FLUSH	#	W	3/8 3/8 5/16	
C	1	VAPOR OUTLET	32"	150#	RFSO	SA-182-F304	0.5"	SA-240-304	1/4" x 2"	SA-240-304	SEE ELEV.	FLUSH	N	W	5/16 3/16 FOR ASME B16.47 SERIES B	
B	1	LIQUID OUTLET	24"	150#	RFSO	SEE DTL	SHI. #2									
A3	1	MANWAY	24"	150#	RFSO	SA-182-F304	S/20	SA-312-TP304	3/8" x 3 1/2"	SA-240-304	10"	FLUSH	#	W	3/8 3/8 5/16 W/ BLD, GASKET, BOLTING & DMIT *	
A2	1	MANWAY	24"	150#	RFSO	SA-182-F304	S/20	SA-312-TP304	3/8" x 2 3/4"	SA-240-304	10"	FLUSH	#	W	3/8 3/8 5/16 W/ BLD, GASKET, BOLTING & DMIT *	
A1	1	MANWAY	24"	150#	RFSO	SA-182-F304	S/20	SA-312-TP304	3/8" x 4"	SA-240-304	10"	FLUSH	#	W	3/8 3/8 5/16 W/ BLD, GASKET, BOLTING & DMIT *	
MARK NO.		SERVICE	SIZE	RATING	TYPE	FLANGE MATERIAL	WALL	L.G. NECK	MAT'L	THK. X WD.	MAT'L	O.S.	L.S.	WELD DETAIL	WELD SIZE	NOTES

NUMBER	DESCRIPTION	NO.	DESCRIPTION	BY	CHK	DATE
P-074-006	BEER COLUMN STEAM SPARGER SP-4101	B	ISSUED FOR APPROVAL	JSL	JSL	
		O	ISSUED FOR CONSTRUCTION	BFT	DM	5-17-07
		1	REVISED AS NOTED	BFT		6-21-07
		2	REVISED AS NOTED	BOD		7-12-07
		3	REVISED AS NOTED	BD	BD	9-21-07

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SPECIFICATIONS

CONSTRUCTION CODE: ASME CODE SECTION VIII, DIV. 1 2004 EDITION, 2005 ADDENDA

YEAR BUILT: 2007

SERIAL NO.: XX

DESIGN PRESSURE INTERNAL: 30 PSIG @ TEMP. -3/200 °F MIN/MAX

DESIGN PRESSURE EXTERNAL: 15 PSIG @ TEMP. -3/200 °F MIN/MAX

HYDRO PRESSURE INTERNAL: 100 PSIG

CORROSION ALLOWANCE: NONE

RADIOGRAPHY: NONE

SHELL MATL. SPEC.: SA-240-304

FLANGE MATL. SPEC.: SA-182-F304

PIPE MATL. SPEC.: SA-312-TP304 (SMLS & WELD)

REPAID MATL. SPEC.: SA-240-304

MDMT: -5 °F

GASKET DESC.: GARLOCK 3000, PTFE OR EQUAL OR EPDM

INSULATION DESC.: 3" THK

INSPECTION BY: HSB CO. & CUSTOMER

SANDBLAST: C.S. (ONLY) - PER SSPC-SP6 (COMMERCIAL BLAST)

PAINT: C.S. (ONLY) - AMERON DIMECOOTE 9 (3-5 MILS)

SpecFab
SPECIALTY PROCESS FABRICATORS, INC.
VICKSBURG, MS 39183
www.specfab.com

DESCRIPTION: 72" I.D. x 108" I.D. x 69'-6" SEAM / SEAM BEER COLUMN ITEM NO.: C4101

CUSTOMER: BUNGE-ERCON VICKSBURG VICKSBURG, MS.

SCALE: N.T.S. DATE: 7/17/07 P.O. No.: 61310-4500140663

DRAWN: J. CHECK: J. FILE NO.: 2007113

APVD: V-074-104 DWG. NO. SHEET NO. 1 OF 5 REV. 3