

MATERIALS	
HEADS	ASME 2B CL.1P. SA240-304, 78" I.D. 1/2" NOM. (1/16" MIN) THK., 2" OF
SHELL	1/2" THK. SA240-304
FLANGES	SA182-304
REPAID	SA240-304
NOZZLE NECKS (PIPE)	SA240-304
NOZZLE NECKS (PLATE)	SA240-304
WELD FITTINGS	SA240-304
VESSEL SUPPORTS	SA26
STRUCTURAL	SA240-304, SA479-304, SA26
STIFFS	SA182-304 ZINC PLATED
NOVDS	SA154-30 ZINC PLATED
GASKETS	3/16" GRAPHO. 5530

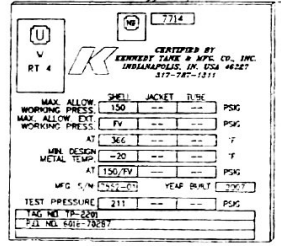
DESIGN CONDITIONS	
DESIGN PRESSURE (PSIG)	150/FV
AT DESIGN TEMP. (°F)	356
OPERATING PRESSURE (PSIG)	20
AT OPERATING TEMP. (°F)	250
CORROSION ALLOWANCE	NONE
LABEL	ASME VIII DIV. 1, 2004 ED./CS ADD.
STRESS RELIEVE	NONE
RADIOPHOTO	RT 4 (SEE NOTE 12)
JOINT EFF.	85 SHELL, 100 HEADS
HYDRO TEST	201 P210
AIR TEST	201 P210
CUSTOMER INSPECTION	YES
MTR COPIES	1 KTM, 1 CUSTOMER
NAMEPLATE FACSIMILE	YES
SEISMIC & WIND DESIGN	IRC 2303

WEIGHTS & CAPACITIES	
EST. CAPACITY, GALS.	
EACH HEAD	271
PER FT. STRAIGHT SIDE	248
TOTAL	5006
SP. GR. OF CONTENTS	1.15
EST. WT. OF CONTENTS (LBS)	48013
EST. WT. OF VESSEL (LBS)	14600
TOTAL EST. WT. (LBS)	62613

FITTING SCHEDULE			
NO.	SIZE	TYPE	DESCRIPTION
A	1 1/2"	RFSD/SCH 40	AGITATOR
B	8"	RFSD/SCH 40	SLURRY OUTLET
C	1 1/2"	RFSD/SCH 40	INSTRUMENT
D	8"	RFSD/SCH 40	SLURRY INLET
E	3"	RFSD/SCH 40	DRAIN
F	1 1/2"	BANDED	SKIRT ACCESS
G	1 1/2"	BANDED	SKIRT ACCESS
H	2 1/2"	RFSD/SCH 40	MANWAY w/ BLIND & DAVIT
K	1 1/2"	RFSD/SCH 40	INSTRUMENT
M	1 1/2"	RFSD/SCH 40	INSPECTION PORT w/ BLIND
N	1 1/2"	RFSD/SCH 40	STEADY BEARING ACCESS
P	4"	SCH 40 PIPE	SKIRT OPENINGS

NOTES	
1.	BOLT HOLES TO STRAIGHT LINE PARALLEL TO 0°/180° AND 90°/270° CENTERLINES.
2.	FABRICATOR SHALL PROVIDE GASKETS, BOLTS, AND HEX NUTS FOR ALL MATING PARTS INCLUDING BLIND FLANGES WHERE NOTED.
3.	✓ INDICATES MACHINE FINISHED SURFACE.
4.	INSULATION SUPPORTS ARE REQUIRED.
5.	FABRICATOR MUST PROVIDE PROTECTIVE SHIELDS FOR ALL FLANGES AND OPENINGS.
6.	SHOP TOLERANCES DIMENSIONING ± 1/8" NOZZLES ± 1/2 DEGREE
7.	SANDBLAST: INTERNAL NONE POWER WASH EXTERNAL SS BRUSH STABILAST EXTERNAL CS SPC-SP6
8.	LINING: NONE
9.	PAINT: ONE COAT INTERIOR @ 2-3 MILS. EXT. COAT @ 3 MILS.
10.	REPAID TO MATCH ORIGINAL W/ WEAR HOLES FILLED WITH GREASE AFTER TESTING.

NOTES (CONT.)	
11.	WHEN REPAID (GUSK, SUPPORTS OR ATTACHMENTS EXTEND OVER PRESSURE RETAINING WELDS, SUCH WELDS SHALL BE CAP AND FLUSH FOR THE PORTION OF THE WELD TO BE COVERED. NONPRESSURE ATTACHMENTS MAY OPTIONALLY BE NOTCHED TO CLEAR STRESS POINTS AND SHALL BE REPAID.
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08018
 CIE: ETHANOL
 Canton, Illinois
 09.04.07
 TP 2201
 0180012002



CERTIFIED AS BUILT CHECK
 CHK. BY: *Wm Schulenburg*
 DATE: 9-6-07