



AGITATOR DATA SHEET

PROJECT:	Bunge-Ergon Vicksburg, LLC	P&ID:	61310-PI-5103
PROJECT NO:	61310		
AGITATOR TAG NO:	AG-5103		
TANK/LOCATION:	THIN STILLAGE TK-5103		
MANUFACTURER:	*		
MANUFACTURER MODEL NO:	*		

A. GENERAL

(1) Class of Agitation: Blend Liquids Dissolved Solids Wet Down Dry Solids Liquid Storage
 Emulsify Suspended Solids Flocculation Cooking
 (2) Agitation Level: Off-Bott Suspension Complete Suspension Complete Mixing
 (3) Mixing Cycle: Batch Continuous Vessel Fill/Drain Off Rate: 405 cont. _____ gpm
 Fill Level - Greatest: 90% Smallest: 20%
 (4) Liquid Change-over Rate: * _____ in *
 (5) Foaming tendency: None Mild Severe (6) Location: Indoors

B. MATERIAL TO BE MIXED

Component	Solids Wgt %	Viscosity, cP	Specific Gravity	Temperature °F
Corn Stillage	11.2 (Total)	5	1.05	150-195
Suspended Solid	2.9			
Dissolved Solids	8.3			

(2) If solids present: Sieve Analysis: _____
 Settling velocity: _____ Difficult to wet: Yes No Tend to agglomerate: Yes No
 Tend to float Yes No Tend to precipitate (coat surfaces): Yes No Max. rate of solids addition: _____ lb/hr

C. VESSEL (Geometry)

(1) Vessel already constructed: Yes No Vendor recommend vessel dimensions Yes No
 (2) Size: 294" Dia. x 456" St. Side; Vessel drawing attached: Yes No Baffles: *
 (3) Agit. Nozzle Size: 16" Length: *

D. AGITATOR SPECIFICATIONS

(1) Type preferred: Portable (clamp mounted) Side-Entering Top-Entering Other
 (2) Type of seal preferred: No seal Vapor seal Packed gland Mechanical seal
 (3) Material of construction (wetted parts): Stainless Steel
 (4) Steady bearing is is not permissible
 (5) Duty: 8-10 hr. day Continuous

E. MOTOR

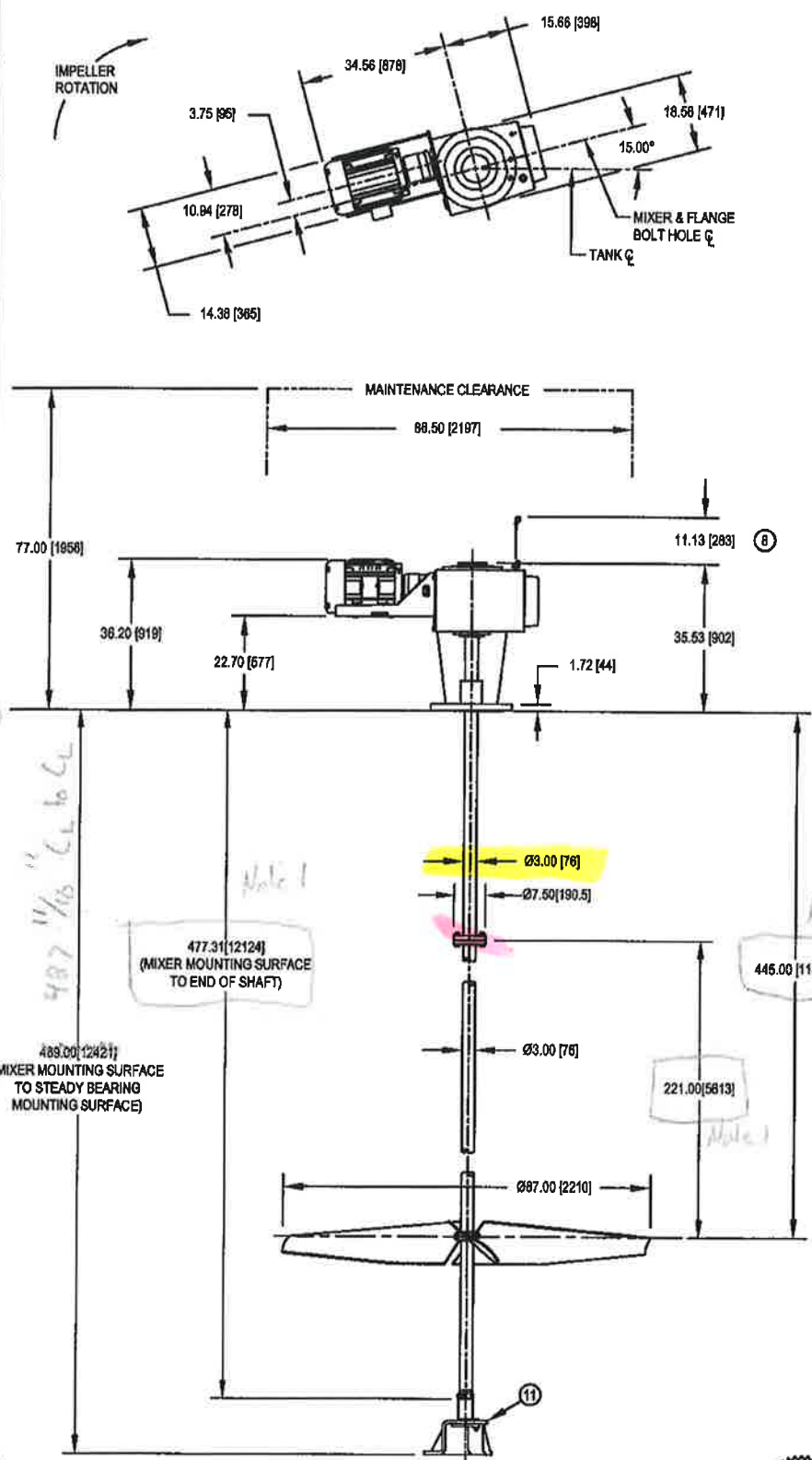
(1) Current: AC DC 3 Phase 60 Cycle 480 Volts * HP
 (2) Enclosure: Drip proof Totally enclosed Exp. proof Div. I Exp. proof Div. II

Remarks:

(1) Agitation to prevent solids settling.
 (2) Electrical Area Classification General Purpose
 (3) * Vendor Supplied Information
 (4) Tank may be cleaned with 5% NaOH solution at 200 ° F.
 (5)

NOTES:

- ① MATERIAL OF IN-TANK MIXER PARTS IS 304/316
- ② ALL DIMENSIONS ARE IN INCHES (mm). DIMENSIONS ARE FOR REFERENCE ONLY.
- ③ MOTOR DATA:
H.P.: 7.5 R.P.M.: 1200 DUTY: STANDARD
VOLTS: 230/460 PHASE: 3 HZ: 60
ENCLOSURE: TEFC FRAME: 254T
- ④ IMPELLER DATA:
TYPE: A510E QUANTITY OF BLADES: 3
R.P.M.: 37.7
IMPELLER HUB NOT ADJUSTABLE OR REMOVABLE FROM POSITION SHOWN. BLADES/FINS ARE REMOVABLE.
- ⑤ TOTAL MIXER WEIGHT IS 2369 lbs [1084 kg]
- ⑥ MIXER MOUNTING DESIGN DATA:
VERTICAL DOWNWARD LOAD: 4760 LBS. [21172 N]
TORQUE: 27416 IN.-LBS. [3098 N*m]
BENDING MOMENT: 101000 IN.-LBS. [11413 N*m]
DESIGN LOADS ARE GREATER THAN ACTUAL LOADS BY A SUITABLE FACTOR, CONSISTENT WITH CONSTRUCTION CODES AND LIGHTNIN EXPERIENCE.
LIGHTNIN WARRANTIES AND GUARANTEES EXTEND FOR THOSE ITEMS FURNISHED BY IT. ALL OTHER EQUIPMENT AND DESIGNS ARE THE RESPONSIBILITY OF OTHERS.
- ⑦ MINIMUM OPENING REQUIRED TO PASS DISASSEMBLED MIXER PARTS IS 15" [381 mm]
- ⑧ CLEARANCE REQUIRED FOR REMOVAL OF OIL LEVEL GAUGE.
- ⑨ UNIT IS FURNISHED WITH A LOW PRESSURE STUFFING BOX PACKING MATERIAL: COMBINATION 50
- ⑩ MIXER MOUNTING FLANGE DATA:
150 LB. ANSI SERIES DRILLING
SIZE: 12" O.D.: 19.00 BOLT CIRCLE: 17.00
NO. OF HOLES: 12 BOLT DIA.: .88
AS COMMON PRACTICE, FLANGE BOLT HOLES ARE SHOWN STRADDLING MIXER CENTERLINE
- ⑪ UNIT IS FURNISHED WITH A TRIPOD MOUNTED STEADY BEARING. BUSHING MATERIAL IS GLASS FILLED TEFLON. THE LATERAL DESIGN LOAD ACTING AT THE CENTERLINE OF THE BUSHING IS 420 LBS. 1869 N]. MIXER MOUNTING SURFACE AND STEADY BEARING MOUNTING SURFACE MUST BE PARALLEL WITHIN ±.25° IF THEY ARE NOT A TAPERED GASKET, DUTCHMAN OR SHIMS SHOULD BE ADDED TO OBTAIN THE REQUIRED PARALLELISM. MOUNTING PAD TO BE AFFIXED TO TANK BOTTOM AT TIME OF STEADY BEARING INSTALLATION. RECOMMENDED MINIMUM PAD THICKNESS MEASURED AT TANK C. IS 2.13 [54] IF TANK BOTTOM THICKNESS IS LESS THAN 3/8", LIGHTNIN RECOMMENDS THAT IT BE REINFORCED.



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GENERAL ARRANGEMENT

FOR: **BUNGE-ERGON VICKSBURG, LLC**
 S.O. NO.: 1013563 ITEM NO.: 90
 CUST. P.O. NO.: 61310-4500145584 QUANTITY: 1
 TAG NO.: AG-5103 THIN STILLAGE
 MIXER MODEL: 74C7.5 RATIO: 31:1:1



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CERTIFIED BY:

DATE:

