REV. 0A6

DRAWING NO. PD116-A-8024-1

116V-8000
AQUEOUS AMMONIA PACKAGE

MFG: VORTEX PRODUCTION SERVICES

116C-8000
AQUEOUS AMMONIA BULLET

SIZE: 3048mm ID x 10668mm S/S
GROSS CAPACITY: 85m³
WORKING CAPACITY: 69M³ (BETWEEN LAHH AND LAL)
DESIGN PRESSURE: 1035 kPag/FV @ 60°C/-45°C
DESIGN TEMPERATURE: 60°C/-45°C
CRN: TBD

116G-8000A /B
AQUEOUS AMMONIA PUMPS

MFG: MILTON ROY/PRIME ROYAL PN117(140) T55 H45
TYPE: POSITIVE DISPLACEMENT DUAL DIAPHRAGM
DESIGN CAPACITY: 1.02 m³/h @ 6500 kPag
DESIGN PRESSURE: 4500 kPag
DESIGN TEMPERATURE: 85°C/-45°C

116GM-8000A/B
AQUEOUS AMMONIA PUMP MOTORS

MFG: TECO WESTINGHOUSE
TYPE: ELECTRIC
MOTOR: 7.5 HP @ 1800RPM, 575 V/3 PHASE/60 Hz

116G-8001
AMMONIA TRANSFER PUMP

MFG: BLACKMER SX3
TYPE: POSITIVE DISPLACEMENT VANE
DESIGN CAPACITY: 40 m³/h @ 100 kPag
DESIGN PRESSURE: 1210 kPag
DESIGN TEMPERATURE: 115°C/-45°C

116GM-8001
AMMONIA TRANSFER PUMP MOTOR

MFG: BALDOR
TYPE: ELECTRIC
MOTOR: 5 HP @ 1750 RPM, 575 V/3 PHASE/60 Hz

116Y-8000
AMMONIA SCRUBBER

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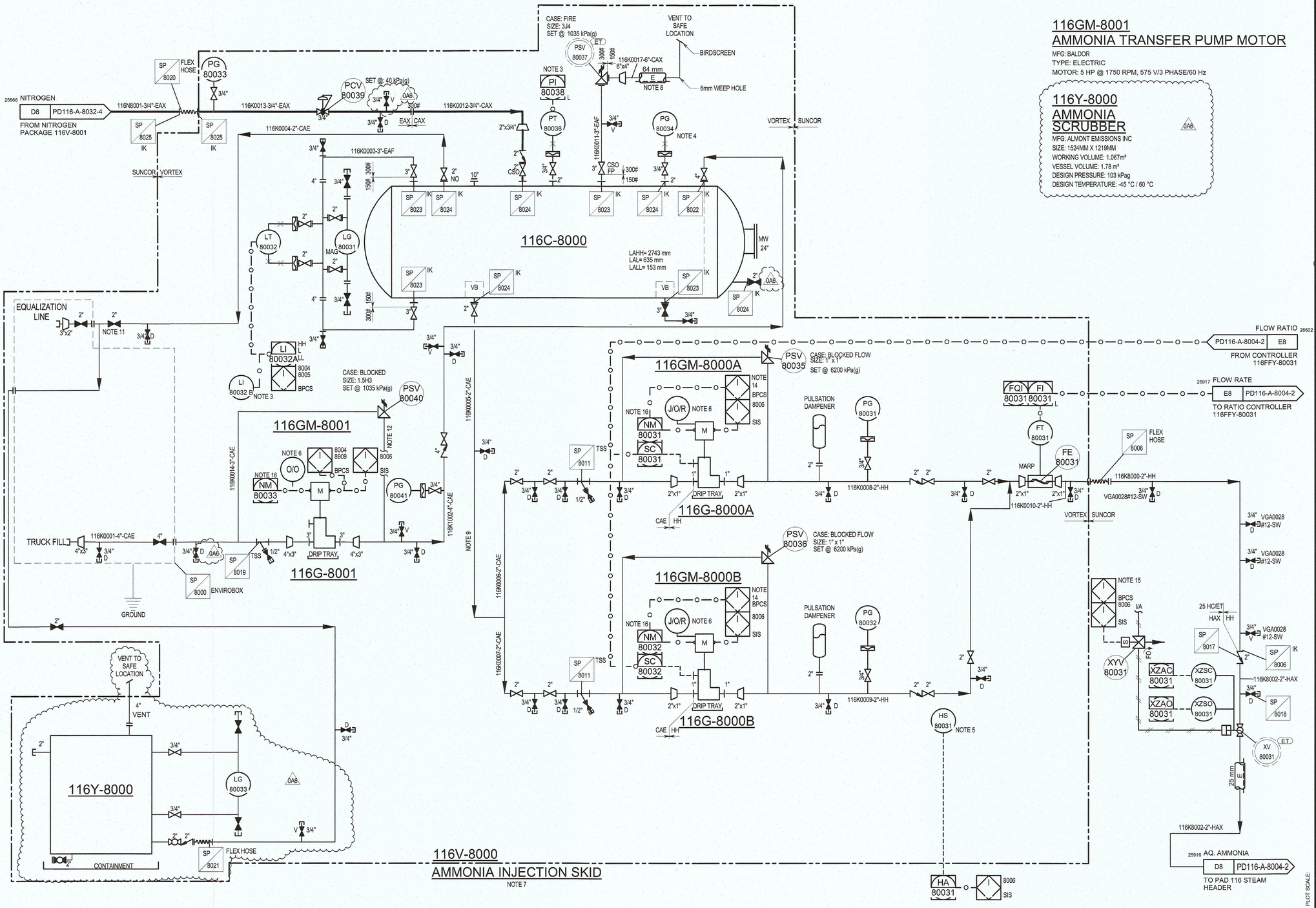
MFG: ALMONT EMISSIONS INC
SIZE: 1524MM X 1219MM
WORKING VOLUME: 1.067m³
VESSEL VOLUME: 1.78 m³
DESIGN PRESSURE: 103 kPag
DESIGN TEMPERATURE: -45 °C / 60 °C



NOTES
1. ALL EQUIPMENT, INSTRUMENT AND SP ITEMS ARE PRE-FIXED WITH "116" UNLESS NOTED OTHERWISE.
2. DELETED.
3. 116LI-80032B AND 116PIT-80038 TO BE VISIBLE FROM TRUCK FILL STATION.
4. 116PG-80034 TO BE LOCATED AT EYE LEVEL NEAR PCV-80039.
5. LOCATE ESD PUSH BUTTON ON AQ. AMMONIA SKID CONTROL STATION.
6. LOCATE PUMP MOTOR JOG/OFF/REMOTE AND ON/OFF HAND SWITCH ON AQUEOUS AMMONIA SKID CONTROL STATION.
7. FOR DETAILS REFER TO VENDOR DRAWING S158283-PID-01 AND VENDOR LINE LIST.
8. 116PSV-80037 AND TAIL PIPE OF 116-PSV-80037 IS TO BE TRACED AND INSULATED IN THE FIELD BY CONTRACTOR.
9. LENGTH OF PIPING SHALL BE MINIMIZED.
10. DELETED.
11. 2 INCH VALVE TO BE CLOSED WHEN DEPRESSURING AMMONIA TRANSPORT TRUCK.
12. LENGTH OF 116PSV-80040 INLET PIPE MUST NOT EXCEED 0.4 METERS LENGTH.
13. DO NOT STEAM. PACKAGE IS NOT SUITABLE FOR HIGH TEMPERATURES.
14. INITIATED BY INTERLOCKS 8929, 8928, 8003, 8110, 8005, 8006, 8900 AND 8908.
15. INITIATED BY INTERLOCKS 8929, 8003, 8110, 8005, 8006, 8900, 8908 AND 8907.
16. REFER TO DETAIL 2 OF PD100-A-8032-1.
17. A DIPHOTERINE WASH STATION IS LOCATED ON THE AMMONIA PACKAGE IN A HEATED ENCLOSURE. TO BE USED IN CASE OF SPILL OR CONTACT WITH AMMONIA.

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REFERENCE DRAWINGS

PF116-B-8006-1 PROCESS FLOW DIAGRAM

S158283-PID-01 VENDOR P&ID

REV.	DATE Y	M	D	DESCRIPTION	BY	CHK.	ENG.	APP.
0A6	17	08	14	RE-IFC (SAP # 02-03887)		AM	IVJ	ML
0A5	17	08	03	ISSUED FOR CONSTRUCTION (SAP # 02-03887)		IVJ	IVJ	VD
0A4	17	03	01	ISSUED FOR DESIGN (SAP # 02-03887)		IVJ	IVJ	EC
0A3	17	02	01	ISSUED FOR HAZOP (SAP#02-03887)		IVJ	SA	EC
0A2	16	10	21	RE-ISSUED FOR REVIEW (SAP#02-03887)	MLL	IVJ	ADD	EC
0A1	16	09	29	ISSUED FOR REVIEW (SAP#02-03887)	MLL	IJ	ADD	EC

PROFESSIONAL ENGINEER PROVINCE OF ALBERTA IVANA JURCA
Permit #0258

TITLE
PIPING & INSTRUMENTATION DIAGRAM AQUEOUS AMMONIA CO-INJECTION PACKAGE

EQUIP. NO. 116V-8000		PLANT AREA 116	
SAP NO. 02-03887	SCALE N.T.S.	DOS FILE NAME PD116-A-8024-1.pid	
DRAWN BY	CHECKED BY IVJ	MICRO. REV.	
APPROVED VD	DRAWING NO.	REV. 0A6	

PLOT SCALE: