



**FRICK 151 XJF PORT DESCRIPTIONS**  
(AS PER FICK DWG. #534E0539)

LINE ID.	DESCRIPTION	SIZE
1	MAIN OIL SUPPLY	1.0625-12UN-2B
2	SLIDE VALVE PISTON	.4375-20UNF-2B
3	LOW VI LIQUID INJECTION	1.0625-12UN-2B
4	HIGH VI LIQUID INJECTION	1.0625-12UN-2B
5	ECONOMIZER	1.875-12UN-2B
6	SUCTION PRESSURE	.5625-18UNF-2B
7	CLOSED THREAD	1.0625-12UN-2B
8	DISCHARGE PRESSURE	.4375-20UNF-2B
9	LIQUID INJECTION BLEED LINE	.5625-18UNF-2B
10	COALESCER BLEED LINE	.5625-18UNF-2B
11	THERMOWELL (SUCTION PRESSURE)	3/4-14 NPTF
12	MAIN OIL INJECTION	1.0625-12UN-2B
13	SUCTION PRESSURE	1/4-18 NPTF
14	SEAL WEEPAGE	1/8-27 NPTF
15	ELECTRICAL CONNECTION	1/2-14 NPTF
16	OIL PRESSURE	.5625-18UNF-2B

**MATERIAL SPECIFICATIONS**

**PAINT:** OVERALL UNIT: VALSPAR 20-F-34 "WARM GREY" ENAMEL  
PRIMER: COMMERCIAL IRON OXIDE NON-LIFTING PRIMER.

**TUBING:** PROCESS TUBING - 304 TYPE "S" FITTINGS w/ CARBON STEEL CADMIUM PLATE "CS" FITTINGS - 316SS BODY w/ SS BACK FERRULE & CS FRONT FERRULE)  
INSTRUMENTATION TUBING - CADMIUM PLATED "S" TYPE FITTINGS w/ 304SS TUBING, ("S" FITTINGS- CARBON STEEL BODY w/ SS BACK FERRULE & CARBON STEEL FRONT FERRULE)

**PROCESS PIPING:** SPOT X-RAY, 1/16" CORROSION ALLOWANCE AND HYDRO TESTING, SAND BLAST PIPING DOWNSTREAM OF CONE STRAINER.

**SCRUBBERS & COALESCER:** SPOT X-RAY, 1/16" CORROSION ALLOWANCE AND HYDRO TESTING, SAND BLAST COALESCER ONLY.

**GLYCOL:** 50% INHIBITED ETHYLENE GLYCOL/WATER SOLUTION IN ENGINE JACKET WATER SYSTEMS.

**OIL:** ESSOLUBE GMA40 IN ENGINE, FRICK NG-1 IN COMPRESSOR.

**BILL OF MATERIALS:** ON SEPARATE SHEET TO BE PROVIDED WITH DRAWING.

**NOTE #1:** BOLTING ON PROCESS FLANGES TO BE: SA-193-B7 c/w NUTS SA-194-2H & 316SS GASKETS.

**NOTE #2:** ALL NOZZLES IN CONTACT WITH VESSELS TO BE MIN. SCH. 160 PIPING.

**NOTE #3:** VESSELS ARE REGISTERED FOR USE IN AB, BC & SASK ONLY.

**GENERAL INFORMATION**

COMPRESSOR FRAME - FRICK XJF-151N  
- RATED RPM = \_\_\_\_\_  
- SERIAL NUMBER = \_\_\_\_\_

ENGINE - CATERPILLAR G3304NA  
- RATED 95 BHP @ 1800 RPM  
- SERIAL NUMBER = \_\_\_\_\_  
- ARRANGEMENT NUMBER = \_\_\_\_\_

COOLER - \_\_\_\_\_  
- GLOBAL HEAT TRANSFER \_\_\_\_\_

**LEGEND**

- PROCESS LINES
- FUEL GAS, START GAS, DRAIN AND VENT LINES
- SUPPLY (CLEAN) OIL LINES
- WASTE OIL LINES
- WATER LINES
- PNEUMATIC TUBING
- ELECTRICAL WIRING
- CAPILLARY
- SPACER
- SPECTICAL BLIND
- SCREEN (CONE STRAINER)
- PANEL CONNECTION (ELECTRIC)
- PANEL CONNECTION (PNEUMATIC)
- LOCAL MOUNTED INSTRUMENT

NOTE: SWEET PROCESS GAS

0	ISSUED FOR CONSTRUCTION	12/18/02	GG
No.	REVISION	DATE	BY

**ENERGY INDUSTRIES INC.** 4303 - 11TH STREET N.E. CALGARY ALBERTA CANADA

TITLE: PROCESS FLOW DIAGRAM  
CATERPILLAR G3304NA  
FRICK XJF-151N  
ENERGY SYSTEMS COOLER

CUSTOMER: ENERGY INDUSTRIES INC.  
STOCK SCREW TRAILER PACKAGE  
LSD: \_\_\_\_\_ W\_M

SCALE: NONE	DATE: 12/18/02	BY: GG	DATE RELEASED:	RELEASED BY:
STEP # 410	UNIT # S213	DRAWING NO.: S213-PFLOW REV. 0		