

V-1
COMPRESSOR SUCTION SCRUBBER
SIZE: 30" OD. X 102" S/S
M.A.W.P.: 245 PSIG @ 250 DEG.F
N.D.M.T.: -20 DEG.F @ 245 PSIG
C.A.: 0.0625"
WEIGHT: 1720 LBS.



2	UNIT SOLD TO COMPASS ENERGY SOLUTIONS (IFC)	APR 05/19	TS	HM	
1A	AS BUILT	FEB 13/08	MB	AD	
1	ISSUED FOR CONSTRUCTION	MAY 05/06	AF	GS	
REV.	DESCRIPTION	DATE	BY	APPR	

ISSUED FOR
CONSTRUCTION
NAME T. SABISTON DATE APR 05/11

ENGINEER STAMP

ENERFLEX

DRAWN BY: A. FOO	DATE: MAY 05, 2006
CHKD. BY: G. SCHUSTER	SCALE: N/A
APPR. BY: G. SCHUSTER	W.O. No: 12114101

TITLE:	P & I FLOW DIAGRAM
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FOR: COMPASS ENERGY SOLUTIONS
200HP/3306TA - TDSH233L
BOOSTER COMPRESSOR

RETROFIT JOB #:

DWG. No:	12114-101	SHEET No:	REV
		1 OF 4	2

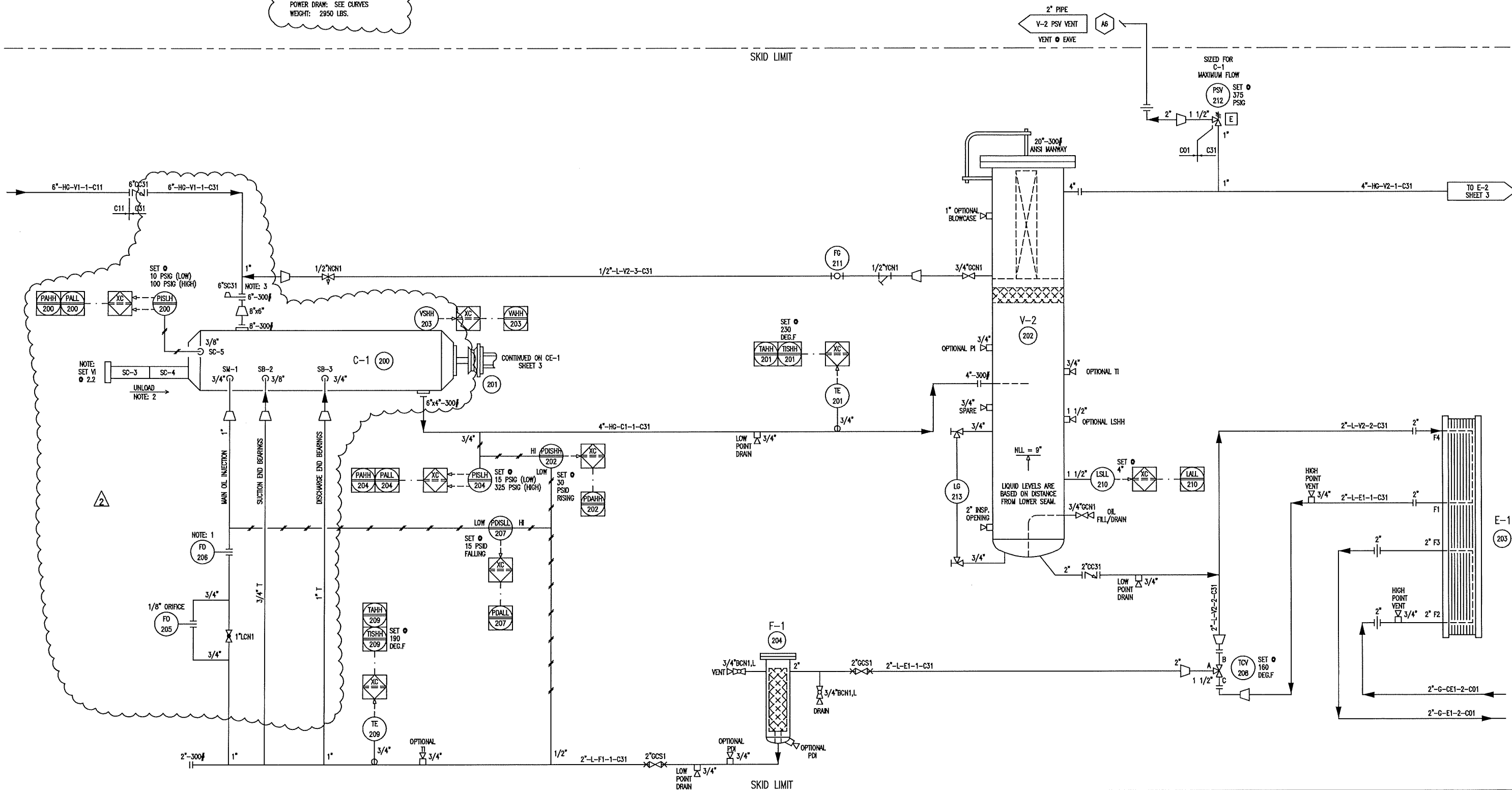
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C-1
GAS COMPRESSOR
FRICK: TDSH-233L
OPERATING SPEED: 1800 RPM
SUCTION PRESSURE: SEE CURVE
DISCHARGE PRESSURE: SEE CURVE
DISPLACEMENT: 646 ACFM @ 100%
OIL TEMPERATURE: 160 DEG.F
POWER DRAW: SEE CURVES
WEIGHT: 2950 LBS.

F-1
OIL FILTER
SIZE: 8 5/8" O.D. X 27 1/2" S/F
M.A.W.P.: 450 PSIG @ 250 DEG.F
M.D.M.T.: -20 DEG.F @ 450 PSIG
C.A.: 0.0625"
ELEMENT: (1) MODEL 1833C
WEIGHT: 286 LBS.

V-2
OIL SEPARATOR
SIZE: 20" O.D. X 90" S/F
M.A.W.P.: 400 PSIG @ 250 DEG.F
M.D.M.T.: -20 DEG.F @ 400 PSIG
C.A.: 0.0625"
ELEMENT: (1) RSC18321
WEIGHT: 1970 LBS.

E-1
OIL COOLER
MODEL: VEX VX20-SS-FWR-2-50
PLATES: 29
M.A.W.P. OIL SIDE: 400 PSIG @ 250 DEG.F
M.A.W.P. GLYCOL SIDE: 400 PSIG @ 250 DEG.F
WEIGHT: 740 LBS.



NOTE: 1 ORIFICE SUPPLIED WITH COMPRESSOR.
NOTE: 2 TURN CLOCKWISE TO LOAD.
NOTE: 3 1" CONNECTION TO ALLOW BORE SCOPE INSPECTION OF INLET STRAINER

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SHEET No: 2 OF 4
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F-2
FUEL GAS SCRUBBER
MAKE: ESS CORP.
MODEL: CLVB-12L-1.5NPT-CS
SIZE: 6 5/8" OD X 48" OAL
MAMP: 245 PSIG @ 250 DEG.F
SHELL MATERIAL: SA-106B
ELEMENT: JPMG-312-R
WEIGHT: 290 LBS

H-1A/B
CATALYTIC ROOM HEATER
INPUT: 16,000 BTU/HR (EACH)
SIZE: 12" X 48"
STARTING ELEMENT: 12V W/ 25' CABLES
C/W PRESSURE REGULATOR
THERMOSTAT & SAFETY SHUTOFF
WEIGHT: 90 LBS.

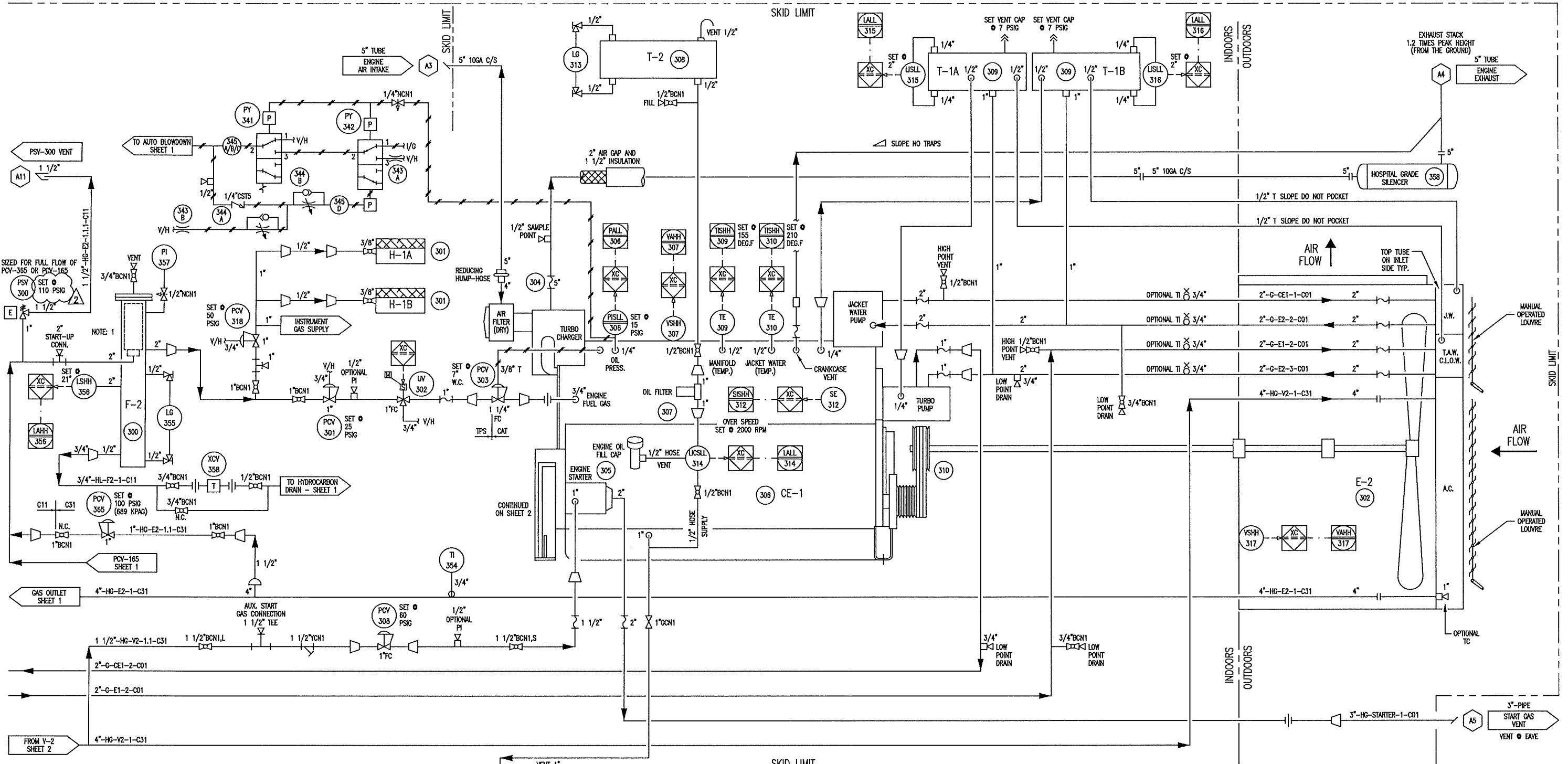
T-2
OIL DAY TANK
SIZE: HSS 1/4" THK 12" X 12" X 82" LG
VOLUME: 47 USGAL
T-3
USED OIL STORAGE TANK
SIZE: HSS 3/8" THK 8" X 12" X 252" LG
LOCATION: SIDE OF SKID
VOLUME: 89 USGAL

CE-1
NATURAL GAS ENGINE
TYPE: CATERPILLAR 3306TA
BORE: 4.75"
STROKE: 6"
DISPLACEMENT: 638 CU. IN.
COMPRESSION RATIO: 8.0: 1
SPEED RANGE: 1200-1800 RPM
BHP (RATED): 203 HP @ 1800 RPM
WEIGHT: 2090 LBS.

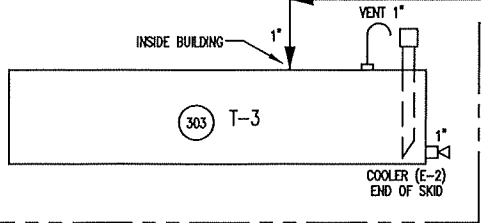
T-1A
TAW/CLOW GLYCOL SURGE TANK
SIZE: HSS 1/4" THK 12" X 12" X 24" LG
VOLUME: 13.7 USGAL

T-1B
JW GLYCOL SURGE TANK
SIZE: HSS 1/4" THK 12" X 12" X 15" LG
VOLUME: 8.6 USGAL

E-2
COMPRESSOR AFTERCOOLER/OIL COOLER/GLYCOL COOLER
TYPE: AIR-X-CHANGER
MODEL: 60BM
AFTERCOOLER COIL: MAMP: 400 PSI @ 300 DEG.F
WDMT: -20 DEG.F @ 400 PSIG
DUTY: 230 KBTU/HR
DESIGN AMBIENT: 90 DEG.F
GLYCOL COIL: MAMP: 14 PSI @ 300 DEG.F
DUTY: 710 KBTU/HR
DESIGN AMBIENT: 90 DEG.F
GLYCOL COIL: MAMP: 14 PSI @ 300 DEG.F
DUTY: 385 KBTU/HR
DESIGN AMBIENT: 90 DEG.F
FAN: MOORE 1KS16
FAN SPEED: 613 RPM
PITCH: 39 DEGREES
POWER DRAW: 9.3 HP
WEIGHT: 4250 LBS.



NOTE: 1 FUEL GAS SCRUBBER TO BE MOUNTED ON STAND STRADDLING DISCHARGE LINE



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LINE IDENTIFICATION

A-B-CCDD-E-FGH-I,J,K

A : NOMINAL LINE SIZE IN INCHES

B : FLUID

C CARBON DIOXIDE
CW COOLING WATER
FG FUEL GAS
G GLYCOL
HG HYDROCARBON GAS
HL HYDROCARBON LIQUID
I/A INSTRUMENT AIR
I/G INSTRUMENT GAS
L LUBE OIL (COMPRESSOR)
NG NATURAL GAS
P PROPANE
PG PURGE GAS
V PRODUCED WATER

C : EQUIPMENT TYPE / MODIFIER (IF REQUIRED)

B BLOWER
C COMPRESSOR
D DRIVER (MOTOR/ENGINE)
E EXCHANGER
F FILTER
H HEATER
P PUMP
T TANK
V PRESSURE VESSEL

D : EQUIPMENT NUMBER:

101 TO 999 SEQUENTIAL NUMBERS

E : LINE NUMBER:

1 TO 9 SEQUENTIAL NUMBERS
FROM EQUIPMENT

FGH : PIPING SPECIFICATION

F : MATERIAL GROUP

C CARBON STEEL
L LOW TEMPERATURE CARBON STEEL
S STAINLESS STEEL

G : ANSI 16.5 FLANGE CLASS

0 NON CODE
1 150#
3 300#
6 600#
9 900#
15 1500#
25 2500#

H : LINE MATERIAL SPECIFICATION REFERENCE:

1 TO 9 SEQUENTIAL NUMBERS

I : INSULATION TYPE (IF REQUIRED)

C COLD
H HOT
HC HOT/COLD
HT HEAT TRACING
PP PERSONAL PROTECTION

J : INSULATION THICKNESS (IF REQUIRED)

THICKNESS IN MILLIMETERS OR INCHES

K : TRACING (IF REQUIRED)

ET ELECTRICAL TRACING
GT GLYCOL TRACING
ST STEAM TRACING

EXAMPLE: 3"-HG-V101-1-C61-HTXX,ET

3" - LINE SIZE
HG - HYDROCARBON GAS
V101 - PRESSURE VESSEL TAG NUMBER
1 - FIRST LINE FROM VESSEL
C61 - C CARBON STEEL LINE
6 600# ANSI FLANGE RATING
1 LINE MATERIAL SPECIFICATION REFERENCE
HT - HEAT TRACING INSULATION
XX - THICKNESS IN MILLIMETERS OR INCHES (*)
ET - ELECTRIC TRACING

VALVE IDENTIFICATION

A"BCDE,F

A : NOMINAL VALVE SIZE IN INCHES

B : TYPE

A ANGLE GLOBE N NEEDLE
B BALL P PLUG
C CHECK S START-UP STRAINER
G GATE T TEE STRAINER
L GLOBE U BUTTERFLY
M MANIFOLD Y Y PATTERN STRAINER

C : BODY MATERIAL

B BRONZE L LOW TEMP. CARBON STEEL
C CARBON STEEL S STAINLESS STEEL
I CAST IRON

D : END CONNECTIONS

1 FLANGED 150# B BUTT WELD
3 FLANGED 300# C SW BY NPT
6 FLANGED 600# F NPT BY FLANGE (MANIFOLD)
9 FLANGED 900# M NPT MALE BY NPT FEMALE
15 FLANGED 1500# N NPT (THREADED)
25 FLANGED 2500# S SW (SOCKETWELD)
T TUBE (SWAGELOCK)

E : UNIQUE DESCRIPTION

REFER TO VALVE DATA SHEETS

F : MODIFIER

C CHAIN OPERATOR O OXYGEN SERVICE/CLEANING
E EXTENDED BONNET P FULL PORT DESIGN
G GEAR OPERATOR R RTJ FLANGED
L LOCKING DEVICE S SPRING HANDLE (CLOSE)
N NACE TRIM X SPECIAL SPECIFICATIONS

EXAMPLE: 6"GC11,C

6" VALVE SIZE 1 150#
G GATE 1 API-600
C CARBON STEEL C CHAIN OPERATOR

VALVE TYPES

ANGLE GLOBE VALVE
BALL VALVE
BUTTERFLY VALVE
CHECK VALVE
GATE VALVE
GLOBE VALVE
NEEDLE VALVE
PLUG VALVE
3-WAY VALVE
4-WAY VALVE
VALVE W/BLEED
VALVE W/PLUG

VALVE CONNECTIONS

THREADED
WELDED (BUTT OR SOCKET)
THREADED BY WELDED
FLANGED

LINE CODE

PRIMARY PROCESS LINE
SECONDARY PROCESS LINE
INSTRUMENT PROCESS LINE (TUBING)
BY OTHERS
SKID LIMIT
PNEUMATIC SIGNAL
ELECTRIC SIGNAL
CAPILLARY TUBING
INSTRUMENT SYSTEM LINK
(ELECTRONIC MEMORY SHARING)

CONTROL VALVES

POSITIONER
DIAPHRAGM CONTROL VALVE
OUTLET PRESSURE REGULATOR
(SELF-CONTAINED)
INLET PRESSURE REGULATOR
(SELF-CONTAINED)
PRESSURE DIFFERENTIAL CONTROL
VALVE (SELF-CONTAINED)
TWO-WAY SOLENOID VALVE
THREE-WAY SOLENOID VALVE
MOTOR ACTUATOR
HYDRAULIC/
PNEUMATIC PISTON
OPERATED

MISCELLANEOUS

PRESSURE SAFETY/
RELIEF VALVE
DESIGNATES API
ORIFICE SIZE
RUPTURE DISC
FOR PRESSURE RELIEF
RUPTURE DISC
FOR VACUUM RELIEF
SPECTACLE BLIND
(LINE OPEN)
SPECTACLE BLIND
(LINE CLOSED)
CONE START-UP
STRAINER
BASKET START-UP
STRAINER
Y-PATTERN STRAINER
TEE STRAINER
FLEXIBLE CONNECTION
CONTINUOUS
LIQUID DRAINER
OR STEAM TRAP
VORTEX BREAKER
DIAPHRAM SEAL
SKID TIE-POINTS
OPEN DRAIN
THICKNESS
INSULATION TYPE
ELECTRIC
HEAT TRACE
GLYCOL OR STEAM
HEAT TRACE

(MODIFIER)

	FIRST LETTER	SUCCEEDING LETTERS	PRIMARY ELEMENT	INDICATOR	RECORDER	CONTROLLER			TRANS-MITTER	CONTROL		CONTROL VALVE OR REGULATOR	SELF-ACTIVATED VALVE	RELAY OR CONVERTOR
						BLIND	INDICATING	RECORDING		SWITCH	ALARM			
A	ANALYSIS	ALARM	AE	AI	AR	AC	AIC	ARC	AT	AS()	AA()	AV		AY
B	USER'S CHOICE													
C	CONDUCTIVITY	CONTROL OR CLOSE	CE	CI	CR	CC	CIC	CRC	CT	CS()	CA()	CV		CY
D	DENSITY OR MASS (DIFFERENTIAL)	DIFFERENTIAL	DE	DI	DR	DC	DIC	DRC	DT	DS()	DA()	DV		DY
E	VOLTAGE	PRIMARY ELEMENT	EE	EI	ER	EC	EIC	ERC	ET	ES()	EA()	EV		EY
F	FLOW (RATIO OR FRACTION)	SHUTDOWN FIRST OUT	FE	FI	FR	FC	FIC	FRC	FT	FS()	FA()	FV	FCV	FY
G	GAUGING	GLASS	GE	GI	GR	GC	GIC	GRC	GT	GS()	GA()	GV		
H	HAND	HIGH				HC	HIC	HRC	HT	HS()		HV	HCV	HY
I	CURRENT	INDICATE	IE	II	IR	IC	IIC	IRC	IT	IS()	IA()			IY
J	POWER (SCAN)		JE	JI	JR	JC	JIC	JRC	JT	JS()	JA()			JY
K	TIME	CONTROL STATION		KI	KR	KC	KIC	KRC	KT	KS()	KA()	KV		KY
L	LEVEL	LOW	LE	LI	LR	LC	LIC	LRC	LT	LS()	LA()	LV	LCV	LY
M	MOISTURE, HUMIDITY	MIDDLE OR INTERMEDIATE	ME	MI	MR	MC	MIC	MRC	MT	MS()	MA()	MV		MY
N	USER'S CHOICE													
O	USER'S CHOICE	ORIFICE OR OPEN												
P	PRESSURE OR VACUUM		PE	PI	PR	PC	PIC	PRC	PT	PS()	PA()	PV	PCV	PY
Q	QUANTITY OR EVENT (INTEGRATE/TOTALIZE)			QI	QR	QC	QIC	QRC	QT	QS()	QA()	QV		QY
R	RELIEF OR RESTRICTION	RECORD OR PRINT	RE	RI	RR	RC	RIC	RRC	RT	RS()	RA()			RY
S	SPEED OR FREQUENCY	SWITCH OR SAFETY		SI	SR	SC	SIC	SRC	ST	SS()	SA()			SY
T	TEMPERATURE	TRANSMIT	TE	TI	TR	TC	TIC	TRC	TT	TS()	TA()	TV	TCV	TY
U	MULTI-VARIABLE	MULTIFUNCTION		UI	UR	UC	UIC	URC				UV		
V	VIBRATION	VALVE OR DAMPER	VE	VI	VR	VC	VIC	VRC	VT	VS()	VA()	VV		VY
W	WEIGHT OR FORCE	WELL	WE	WI	WR	WC	WIC	WRC	WT	WS()	WA()	WV		WY
X	LIGHT	UNCLASSIFIED (DIAGNOSTIC)	XE	XI	XR	XC	XIC	XRC	XT	XS()	XA()	XV		XY
Y	USER'S CHOICE	RELAY OR COMPUTE												YY
Z	POSITION	DRIVE OR ACTUATE	ZE	ZI	ZR	ZC	ZIC	ZRC	ZT	ZS()	ZA()			ZY

INSTRUMENTS

LOCAL MOUNTED
LOCAL PANEL MOUNTED
MOUNTED BEHIND OR IN LOCAL PANEL
MAIN PANEL MOUNTED
MOUNTED BEHIND OR IN MAIN PANEL
MAN MACHINE INTERFACE IN MAIN PANEL
BY OTHERS
PILOT LIGHT
* COLOUR
(A) AMBER (B) BLUE
(G) GREEN (O) ORANGE
(R) RED (W) WHITE
RELAY OR CONVERTER
* FOR INPUT/OUTPUT SEQUENCES
DESIGNATION: SIGNAL:
I CURRENT (ELECTRICAL)
P PNEUMATIC
PROGRAMMABLE LOGIC CONTROLLER (PLC)
XC REPRESENTS GENERAL LOGIC
INTERLOCK
ELECTRICAL (HARD WIRE) INTERLOCK
THERMOWELL (THREADED)
THERMOWELL (WELDED)

(C) -CLOSE
(H) -HIGH ALARM
(HH) -HIGH SHUTDOWN
(O) -OPEN
(L) -LOW ALARM
(LL) -LOW SHUTDOWN
(XX) -DIAGNOSTIC SHUTDOWN
(USED TO INDICATE THE
DIAGNOSTIC CHECK REQ'D
ON THE ANALOG INPUT)

ABBREVIATIONS

AOUT AUTOMATIC OUTPUT
CA CORROSION ALLOWANCE
CSO CAR SEAL OPEN
CUST CUSTOMER
DEG.C DEGREES CELSIUS
DEG.F DEGREES FARENHEIT
DIR DIRECT ACTING
DB DEADBAND
Δ DELTA (DIFFERENTIAL)
ESD EMERGENCY SHUTDOWN
FC FAIL CLOSED
FO FAIL OPEN
FOT FLAT ON TOP
FLP FAIL LAST POSITION
FT2 SQUARE FEET
FT3 CUBIC FEET
HI HIGH
HLL HIGH LIQUID LEVEL
HR HOUR
HTR HEATER
I/A INSTRUMENT AIR
I/G INSTRUMENT GAS
I/O INPUT / OUPUT
I.D. INSIDE DIAMETER
KGS KILOGRAMS
KPAA KILOPASCAL ABSOLUTE
KPAD KILOPASCAL DIFFERENTIAL
KPAG KILOPASCAL GAUGE
KW KILOWATTS
LBS POUNDS
LC LOCKED CLOSED
LO LOCKED OPEN
LP LOCKED IN POSITION
M2 SQUARE METERS
M3 CUBIC METERS
MAX MAXIMUM
MAWP MAXIMUM ALLOWABLE WORKING PRESSURE
MCC MOTOR CONTROL CENTER
MDMT MINIMUM DESIGN METAL TEMPERATURE
MIN MINIMUM
MM MILLIMETER
MOUT MANUAL OUTPUT
MS MOTOR STARTER
NC NORMALLY CLOSED
NLL NORMAL LIQUID LEVEL
NO NORMALLY OPEN
NPT NATIONAL PIPE THREAD
OIC OPERATOR INTERFACE COMPUTER
O.D. OUTSIDE DIAMETER
PB PUSH BUTTON
PSIA POUNDS / SQUARE INCH ABSOLUTE
PSID POUNDS / SQUARE INCH DIFFERENTIAL
PSIG POUNDS / SQUARE INCH GAUGE
PLC PROGRAMMABLE LOGIC CONTROLLER
REV REVERSE ACTING
RST RESET (INTEGRAL)
SCR SILICON CONTROLLED RECTIFIER
S/F SEAM TO FACE OF FLANGE
SP SETPOINT
SPC CALCULATED SETPOINT
SS SELECTOR SWITCH
S/S SEAM TO SEAM
T/T TANGENT TO TANGENT
TS/TS TUBESHEET TO TUBESHEET
T/L TUBE LENGTH
V/H VENT HEADER

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