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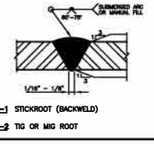
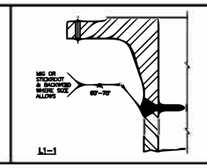


PM-104/108/133



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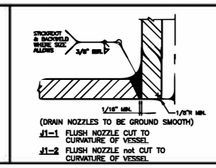

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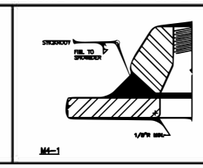

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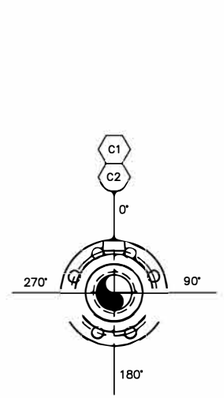

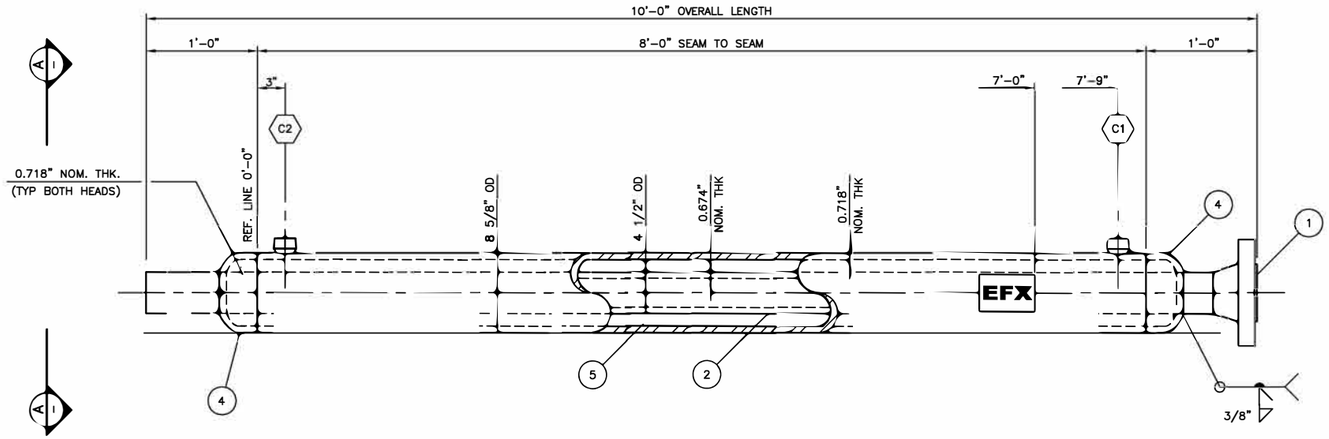

ELEVATION

NOTES:

12) VESSEL EXTERIOR TO RECEIVE COMMERCIAL SANDBLAST PER SSPC-SP6.
13) SANDBLASTING SHALL NOT BE CONDUCTED ON SURFACES THAT ARE LESS THAN 3°F ABOVE DEWPOINT, OR WHEN THE RELATIVE HUMIDITY OF THE AIR IS GREATER THAN 80%.
14) EXTERNAL SURFACES TO RECEIVE (1) COAT CLOVERDALE 71309 INDUSTRIAL METAL PRIMER GREY & (1) COAT CLOVERDALE 74 INDUSTRIAL OR 111 MARINE ENAMEL WARM GREY.
15) CVNT EXEMPT PER PAR 323.2.2

BILL OF MATERIALS

MARK	PART	DESCRIPTION	QTY	MATERIAL	WELD SYM
1	TUBE FLANGE	4" 900# SCH XXH RFWN FLG	1	SA-105N	L1-1
2	TUBE BODY	4" SCH XXH SMLS PIPE x 9'-7 1/4" LG	1	SA-106B	J1-2
4	SHELL HEADS	8" SCH 120 BW CAP	2	SA-420WPL6	K2-2
5	SHELL BODY	8" SCH 120 SMLS PIPE x 8'-0" LG	1	SA-333-GR6	
6	NAME PLATE	STANDARD SMALL NAME PLATE c/w "T" BRACKET	1	SAG40.2150W	
C1	SHELL INLET	1" 6000# NPT TOL	1	SA-105N	M4-1
C2	SHELL OUTLET	1" 6000# NPT TOL	1	SA-105N	M4-1

NO.	REVISION	BY	CHECKED	DATE
0	ISSUED FOR CONSTRUCTION	RA		04/07/29
A	ISSUED FOR APPROVAL	RA		04/07/27

Presson ENERFLEX

DESIGN SCHEDULE		
CONDITION	TUBESIDE	SHELLSIDE
DESIGN PRESSURE	2120 PSI (14617 kPa)	2120 PSI (14617 kPa)
DESIGN TEMPERATURE	130°F (54°C)	130°F (54°C)
RATED M.D.M.T.	-29°C @ 14617 kPa / -20°F @ 2120 PSI	
TEST PRESSURE	3180 PSI (21925 kPa)	3180 PSI (21925 kPa)
CORROSION ALLOWANCE	0.125" (3.2 mm)	NONE
HEAD THK. (NOM.)	N/A	0.718" (18.2 mm)
HEAD THK. (MIN.)	N/A	0.628" (15.9 mm)
BODY THK. (NOM.)	0.674" (17.1 mm)	0.718" (18.2 mm)
BODY THK. (MIN.)	0.589" (14.9 mm)	0.628" (15.9 mm)
EFFECTIVE AREA	10.21 ft² (0.948 m²)	N/A

GENERAL NOTES

1. WELDING PROCEDURES: WP-719.2
2. QUALITY CONTROL PROGRAM: AQP-1077
3. REFERENCE DRAWING NUMBER: STD. 2000 (WELD STANDARDS)
4. ALL BOLT HOLES TO STRADDLE CENTRE LINES
5. SERIAL NUMBER: B7101-72
6. SERVICE: TUBESIDE: SOUR GAS SHELLSIDE: GLYCOL
7. LONG SEAM WPS: ____ CIRC. SEAM WPS: PM-104/108/133
   NOZZLE TO FLG. WPS: PM-105/108/133 OTHER WELD WPS: PM-105
8. PRE-HEAT TO: 21°C (70°F) MIN. IMPACT TESTS: SEE NOTE #15
9. SURFACE PREP. INT. : NONE EXT. : SEE NOTES #12 & #13
10. SURFACE FINISH EXT. : SEE NOTE #14
    EXT. : ____
11. INSULATION : NONE

DESIGN DATA

CODE: ASME B31.3, 2002 EDITION ____ ADDENDA
DESIGN PRESS. SEE kPa(CHART PSIG), DESIGN TEMP. SEE °C(CHART °F)
MIN. DESIGN METAL TEMP. SEE °C @ CHART kPa(SEE °F @ CHART PSIG)
M.A.W.P. @ MAX. TEMP. ____ kPa @ ____ °C(____ PSIG @ ____ °F)
M.A.W.P. NEW & COLD ____ kPa(____ PSIG)
HYDROSTATIC TEST PRESSURE SEE kPa(CHART PSIG) 1 HOUR CHART
CORROSION ALLOW. SEE mm(CHART "), P.W.H.T. 60 min. @ 1150°F (±25°F)
RADIOGRAPHY 100%
HEAD THK. NOM. SEE mm(CHART "), MIN. ____ mm(____ ")
SHELL THK. NOM. SEE mm(CHART "), MIN. ____ mm(____ ")
VOLUME 0.051 cu m.(1.80 cu ft.)
WEIGHT EMPTY 450 kg(990 lbs)
WEIGHT FULL OF WATER 501 kg(1105 lbs)

CUSTOMER

CUSTOMER REF. NO. | JOB NO.

PROJECT

TITLE

GAS/GLYCOL EXCHANGER (E-410)
4 1/2" OD / 8 5/8" OD x 10'-0" O/A LENGTH
114 mm OD / 219 mm OD x 3048 mm O/A LENGTH
TUBESIDE: 2120 PSIG @ 130° F (14617 kPa @ 54° C)
SHELLSIDE: 2120 PSIG @ 130° F (14617 kPa @ 54° C)

DRAWN	CHECKED	APPROVED	SCALE	DATE	DRAWING NUMBER
RA			1 1/2"=1'-0"	04/07/27	