



2	CUSTOMER COMMENTS	GK2	11/4/13
1	CUSTOMER COMMENTS / ENGR CHANGES	GK2	9/13/13
NO.	REVISION	BY	DATE

**GENERAL NOTES**

- ALL DIMENSIONS ARE IN INCHES.
- ALL BOLT HOLES STRADDLE BOTH NATURAL CENTERLINES.
- ALL NOZZLES TO BE FLUSH WITH INSIDE CONTOUR OF SHELL & CHANNEL.
- INSIDE EDGES OF TUBESHEET TUBE HOLES TO BE DEBURRED.
- NUMBER OF UNITS REQUIRED: (TWO)
- SHIPPING WT. 3461 LBS.  
FLOODED WT. 10249 LBS.  $\Delta$   
BUNDLE WT. --- LBS.
- ALL MACHINED GASKET SURFACES TO RECEIVE A 125-250 RA FINISH.
- GASKETS: SP WND SS GRAPHITE FILLER.
- UNITS ARE TO BE PAINTED IN ACCORDANCE WITH UNITEL TECHNOLOGIES ENGINEERING SPECIFICATION ES-PC-1002.

**MATERIAL SPECIFICATIONS**

PART	
SA516-70	SHELL & BONNET
	GIRTH FLANGES
SA106B	NOZZLE NECKS
SA105	NOZZLE FLANGES
	COUPLINGS
SA516-70	COVERS
NOTE #8	GASKETS 1/8" THK
	TIE RODS & SPACERS
SA193-B7 (ZINC PLATED)	BOLTS
SA194-2H (ZINC PLATED)	NUTS
C/STL	SUPPORTS
	SUPPORT PADS
	LINERS

**NOZZLE SCHEDULE**

TAG	SIZE	QTY	SERVICE	TYPE	NECK	REMARK
A	3	1	LIQUID INLET	150# RFSO	SCH 80	
B	1 1/2	1	VAPOR OUTLET	150# RFSO	SCH 160	
C	2	1	LEVEL	150# RFSO	SCH 160	
D	3	1	LIQUID OUTLET	150# RFSO	SCH 80	
E	2	1	LEVEL	150# RFSO	SCH 160	
F	2	1	TEMPERATURE	150# RFSO	SCH 160	
G	1 1/2	1	PUMP RETURN	150# RFSO	SCH 160	
H	2	1	LEVEL SWITCH	150# RFSO	SCH 160	
J	24	1	MANWAY	150# RFSO	STD WT	W/ BLIND
K	1 1/2	1	VAPOR BALANCE	150# RFSO	SCH 160	

**DESIGN CONDITIONS**

CODE: 2010 ASME SECTION VIII, DIV 1 (2011 ADDENDA) TEMA CLASS:

DESIGN & TEST		
DESIGN PRESSURE	75 / FV	PSIG
DESIGN TEMPERATURE	-20 TO 250	°F
TEST PRESSURE	98	PSIG
CORROSION ALLOW.	0.125	INCH
STRESS RELIEVE	NONE	
RADIOGRAPH	SPOT	

HETRICK MFG., INC.  
 NEW KENSINGTON, PA 15068 (724) 335-0455  
 TITLE: BPM42-108  
 SERVICE: PURIFICATION COLUMN REFLUX DRUM  $\Delta$   
 DRAWN BY: GK2 8/12/13 CUSTOMER: OBERON FUELS  
 CHECKED: CK 8/13/13 CUST PO#: HET-19JULY13  
 APPROVED: G. KNOELLER 8/13/13 ITEM NO: D-2720  
 SHOP ORDER NUMBER 713-4749G 1,2 SCALE NTS DRAWING NUMBER B-6234 REV 2

FOR APPROVAL \_\_\_\_\_  
 CERTIFIED DWG \_\_\_\_\_