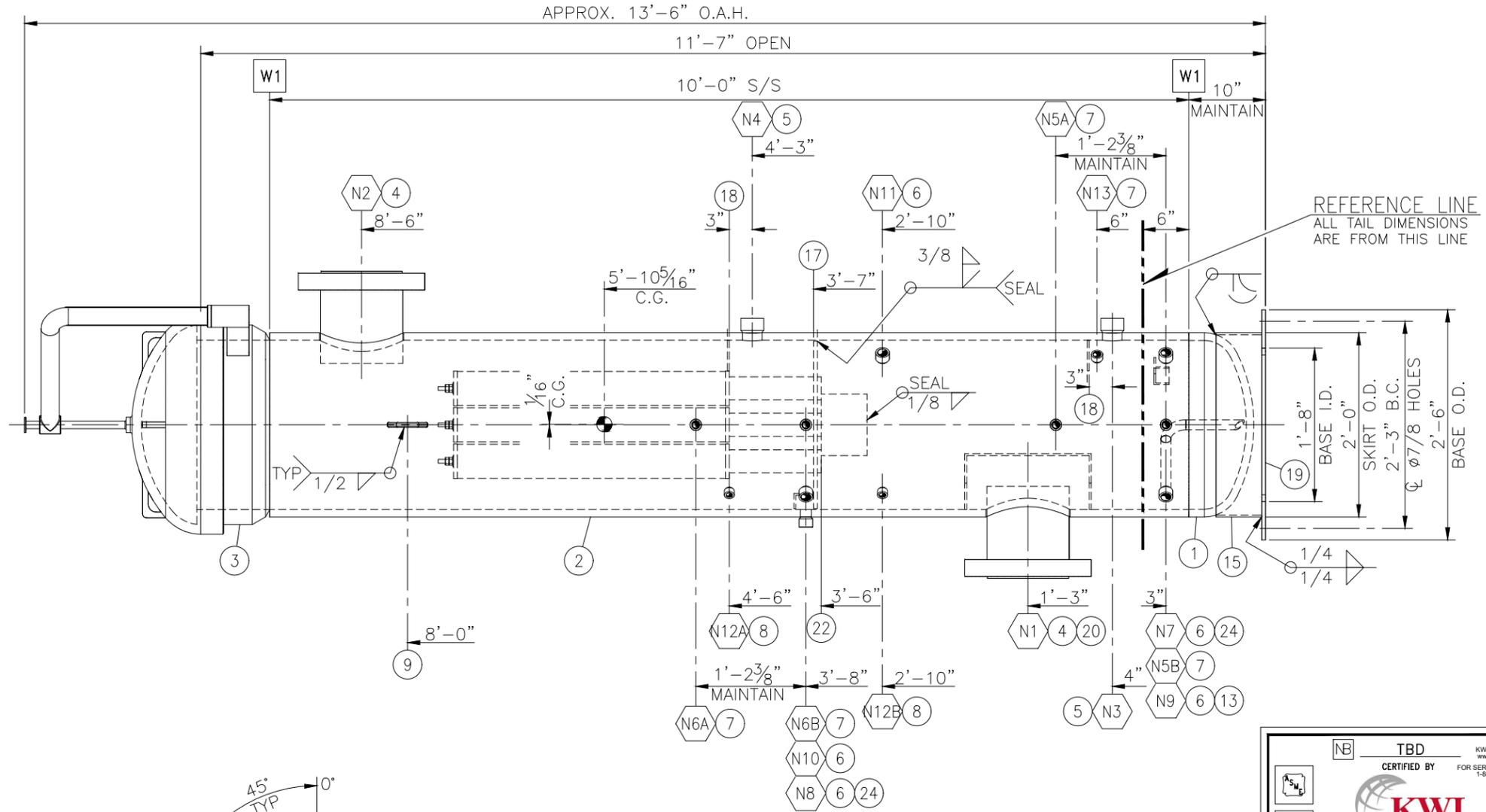
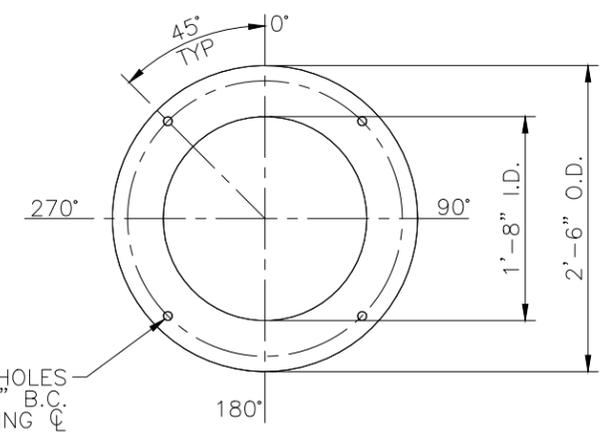


PLAN VIEW
SCALE 1 1/2" = 1'-0"



ELEVATION
SCALE 1 1/2" = 1'-0"



BASE PLATE DETAIL
SCALE 1 1/2" = 1'-0"

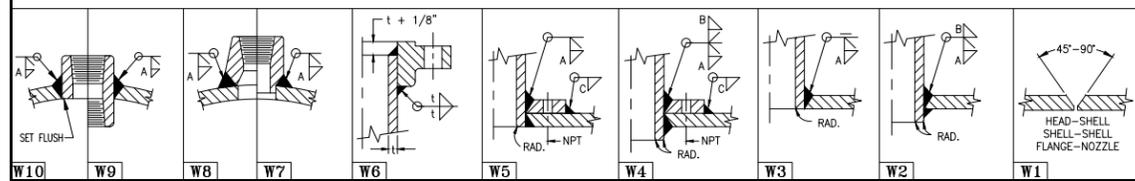
INTERNAL PROJECTIONS SHOWN IN SCHEDULE OF OPENINGS ARE A MINIMUM REQUIRED BY CODE. N/R INDICATES NONE REQUIRED

MARK	NO. REQ'D	SIZE	RATING	TYPE	SERVICE	INSIDE PROJ.	OUTSIDE PROJ.	WELD FIGURE NUMBER	OUTSIDE FILLET (A)	INSIDE FILLET (B)	PAD FILLET (C)
N13	1	3/4"	3000#	CPLT	THERMOMETER	-	-	W7	1/4"	-	-
N12	2	1/2"	3000#	CPLT	D.P.I.	-	-	W7	1/4"	-	-
N11	1	1"	3000#	CPLT	RELIEF VALVE	-	-	W7	1/4"	-	-
N10	1	1"	3000#	CPLT	UPPER DRAIN	-	-	W7	1/4"	-	-
N9	1	1"	3000#	CPLT	LOWER SIPHON DRAIN	-	-	W7	1/4"	-	-
N8	1	1"	3000#	CPLT	UPPER LIQUID OUTLET	-	-	W7	1/4"	-	-
N7	1	1"	3000#	CPLT	LOWER LIQUID OUTLET	-	-	W7	1/4"	-	-
N6	2	3/4"	3000#	CPLT	UPPER LG	-	-	W7	1/4"	-	-
N5	2	3/4"	3000#	CPLT	LOWER LG	-	-	W7	1/4"	-	-
N4	1	2"	3000#	CPLT	UPPER LC	-	-	W7	3/8"	-	-
N3	1	2"	3000#	CPLT	LOWER LC	-	-	W7	3/8"	-	-
N2	1	8"	600#	RFLWN	GAS OUTLET	3/4"	8"	W2	3/8"	-	-
N1	1	8"	600#	RFLWN	INLET	3/4"	8"	W2	3/8"	-	-

SCHEDULE OF OPENINGS

NOZZLE NOTES
1) DRILL & TAP 1/4" N.P.T. HOLE IN REINFORCING PADS. 2) INSIDE EDGES OF NOZZ. NECKS SHALL BE ROUNDED TO 1/8" RAD. OR HALF THE WALL THICKNESS IF LESS THAN 1/4". 3) NOZZLE PROJ. ARE FROM SHORT SIDE. 4) INSIDE PROJECTION AS NOTED ABOVE IS MINIMUM REQUIRED BY CODE AND MAY BE EXCEEDED FOR EASE OF FABRICATION.

NOZZLE SCHEDULE & WELDING DETAILS



SHOP NOTES
1. HEADS SHALL COMPLY WITH THE REQUIREMENTS OF UCS-79(d) AND UG-81.
2. MATERIAL TEST REPORTS ARE REQUIRED FOR PRESSURE PLATE MATERIALS.
3. THE ADDITIONAL MARKING REQUIREMENTS OF SA-106, PARA. 25.2, APPLY TO CUT LENGTHS OF PIPE.
4. VESSEL IS EXEMPT FROM IMPACT TESTING PER UG-20(f) FOR MATERIAL 1" AND THINNER, OTHERWISE UCS-66 APPLIES.
5. ALL BOLT HOLES TO STRADDLE NATURAL HORIZONTAL AND VERTICAL CENTERLINES U.N.O.
6. VESSEL TO BE THOROUGHLY CLEANED INSIDE, AND FREE OF SLAG AND WELD SPATTER.
7. ALL INTERNAL ATTACHMENT WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.

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WELD PROCEDURES

REV.	DESCRIPTION	DATE	BY	CHK
2	UPDATED CODE EDITION, STANDARDS	02/12/20	PE	CV
1	REVISED CODE EDITION	09/05/19	CH	CV
0	ISSUED FOR CONSTRUCTION	09/06/17	JG	BEL

MINIMUM TOLERANCES:
CUTS ± 1/8"
ANGLES ± 1/2"
WELD ASSEMBLIES ± 1/8"
DECIMAL DIMN. ± .005
BEND DIMN. ± 1/8"
LINEAR DIMN. ± 1/4"

TOTAL WEIGHT = 5,000 LBS.

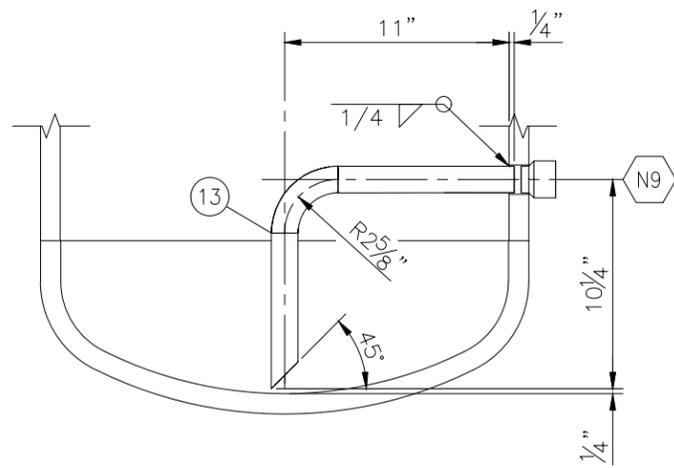
DESIGN DATA

CONSTRUCTION IN ACCORDANCE WITH 2019 EDITION OF THE A.S.M.E. CODE SECTION VIII, DIVISION 1
CODE STAMP IS REQ'D. NATIONAL BD. REG. IS REQ'D.
DESIGN PRESS. (INTERNAL) 1440 P.S.I.G. @ 130 °F
DESIGN PRESS. (EXTERNAL) - P.S.I. @ - °F
M.A.W.P. 1440 P.S.I.G. @ 130 °F LIMITED BY DESIGN
M.A.P. - P.S.I.G. @ AMB. TEMP. LIMITED BY -
HYDROSTATIC TEST 1872 P.S.I.G. (HEADS) IN HORIZONTAL POSITION
CORROSION ALLOWANCE: SHELL 0 NOZZLES 0
RADIOGRAPHY: SHELL(LONG SM) NONE (SEAMLESS)
SHELL(GIRTH SM) SPOT UW-11(a)(5)(b)
JOINT EFF.: HEADS 1.0 SHELL(LONG SM) 1.0 SHELL(GIRTH SM) 1.0
ULTRASONIC EXAM. NONE
P.W.H.T. (STRESS RELIEVE) - MINUTES AT - °F CODE CYCLE
EST. WEIGHTS: EMPTY 5,000 LBS. FULL OF WATER 6,600 LBS.

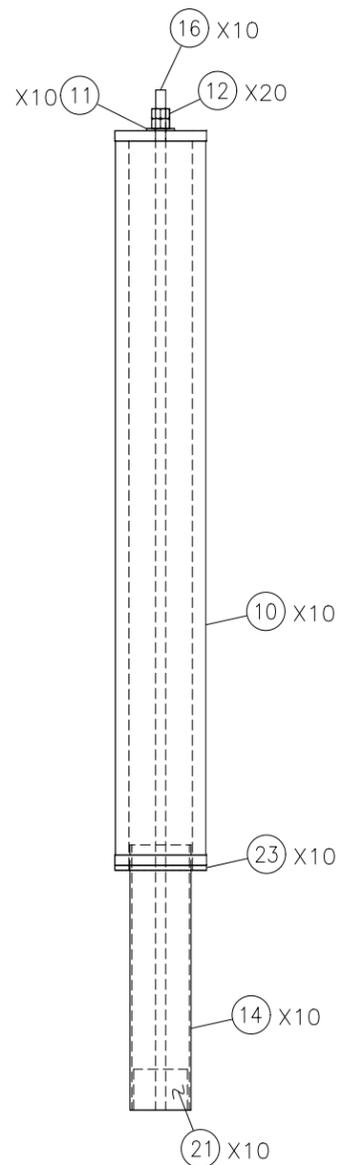
KWI
REVERSE FLOW FILTER COALESCER
24" O.D. x 10'-0" S/S x 1440#
MAWP @ 130°F (10 ELEMENTS)



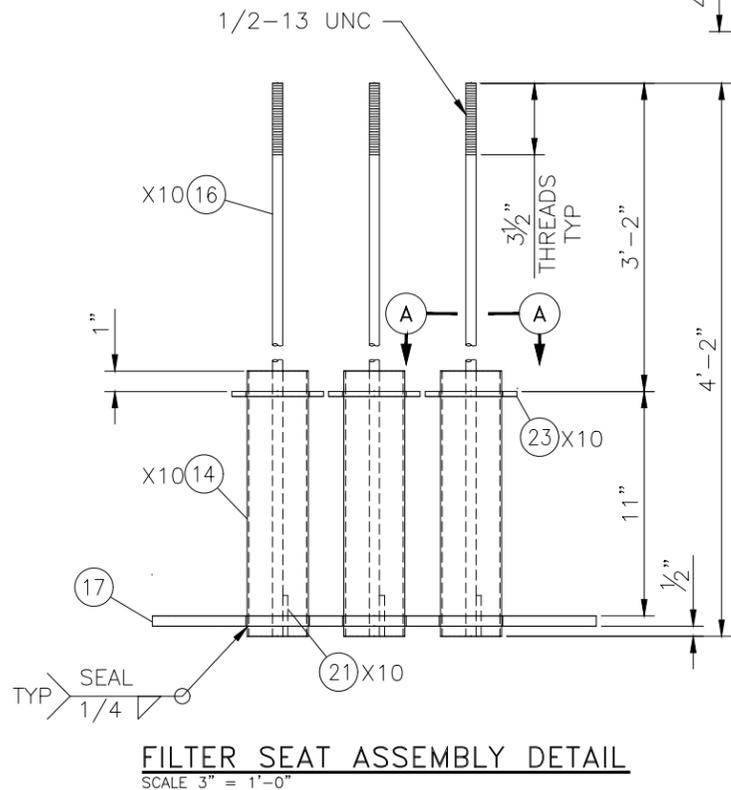
DATE	DRAWN	CHECKED	APPROVED
08/24/2017	JG	BEL	
CLIENT: KW INTERNATIONAL			
TITLE: REVERSE FLOW FILTER COALESCER 24" O.D. x 10'-0" S/S x 1440# MAWP @ 130°F (10 ELEMENTS)			
SCALE: AS NOTED	S.O.#		
DRAWING NUMBER	SHEETS	REV	
SEPVF0032	SHT# 1 OF 3	2	



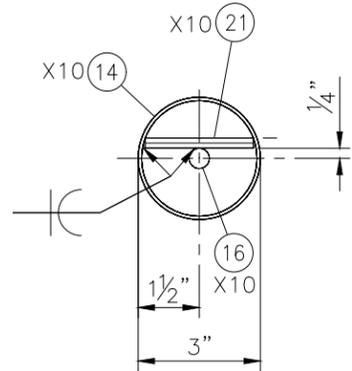
SIPHON DRAIN DETAIL
SCALE 3" = 1'-0"



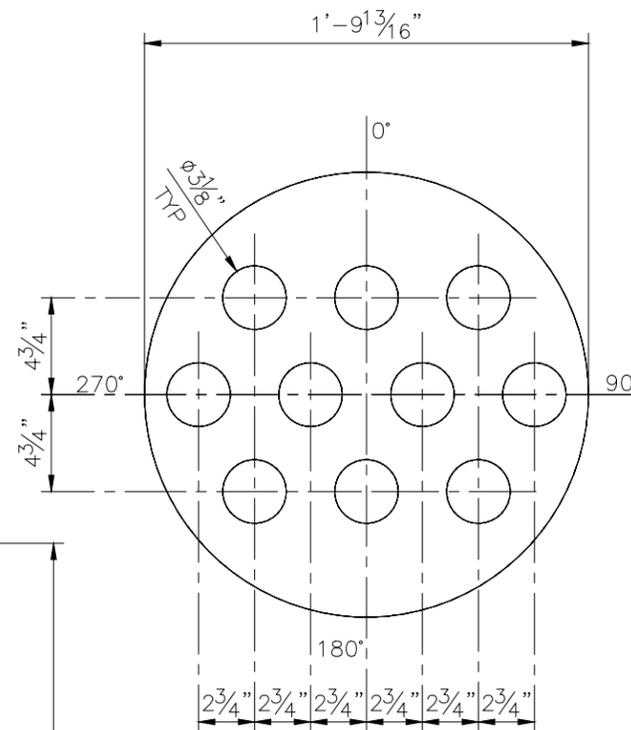
FILTER ASSEMBLY DETAIL
SCALE 3" = 1'-0"



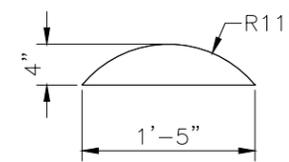
FILTER SEAT ASSEMBLY DETAIL
SCALE 3" = 1'-0"



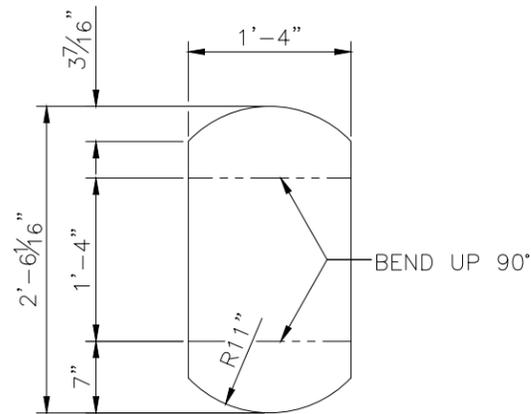
SECTION A-A
SCALE 6" = 1'-0"



TUBESHEET DETAIL (17)
SCALE 3" = 1'-0"



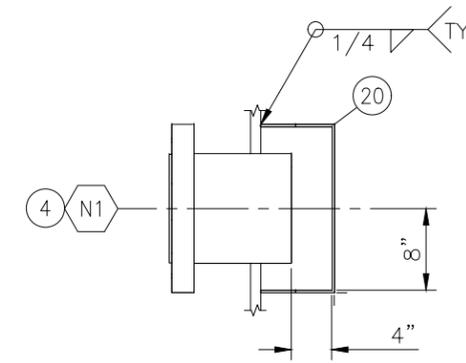
FLOAT SHIELD DETAIL (18)
SCALE 1 1/2" = 1'-0"
(2) REQ'D



INLET DIVERTER DETAIL (20)
SCALE 1 1/2" = 1'-0"

BILL OF MATERIAL

ITEM	QTY	PART NO	DESCRIPTION	
1	1	HDELP0361	HEAD, ELLP, CS, OD, 024, X, 1.000, NOM, 0.875, MIN, SA, 516, 70, N, (UT, SPEC, 578, LV2, MATERIAL, IN, FLAT, PRIOR, TO, FORMING)	
2	1	PIPE0146	PIPE, SA, 106C, SMLS, 24.000, WT, 0.969, S, 060	10'-0"
3	1	CLSUR0145	CLOSURE, VT, HINGE, 24.00, ANSI, 600, TO, MATCH, WT, 0.969, 1440, MAWP, CA, 0, MDMT, -20F, SA, 516, 70, /, 350, LF2, SUB, U2, DATA, REPORT, MODEL, FIG, 500, MODCO	
4	2	FLGRF0795	FLANGE, RFLWN, ANSI, 0600#, 08.000, X, 12, LG, SA105, N	
5	2	FITNP0014	FITTING, NPT, COUPOLET, 105, FS, 03M, 2.000, SA, 105	
6	5	FITNP0011	FITTING, NPT, COUPOLET, 105, FS, 03M, 1.000, SA, 105	
7	5	FITNP0010	FITTING, NPT, COUPOLET, 105, FS, 03M, 0.750, SA, 105	
8	2	FITNP0009	FITTING, NPT, COUPOLET, 105, FS, 03M, 0.500, SA, 105	
9	2	LFTLG0003	LIFT, LUG, FORGED, 20, 000, LBS, SERIES, 2-899-MLL, SA, 105, PHOENIX	
10	10	FILTR0096	FILTER, ELEMENT, 04.50, OD, X, 36.00, OAL, 0.3, MICRON, OPEN, ONE, END, MOD, JPMG-336-CE-R	
11	10	WASHR0004	WASHER, FLAT, USS, 0.500, ZINC	
12	20	NUTHX159	NUT, HEX, 2H, 0.500, NC, 13, A194, ZINC	
13	1	BURN0001	PIPE, DRAIN, SA, 106B, SMLS, 1.000, S, 080, FOR, UP, TO, 030, VERTICAL, VESSEL	
14	10	STLMT0007	STEEL, TUBING, MECHANICAL, 03.000, OD, 14, GA, CS	1'-1"
15	1	PIPE0779	PIPE, SA, 53B, ERW, 24.000, WT, 0.250, S, 010 (TRIM TO FIT)	8"
16	10	STLRL0013	STEEL, HOT, ROLL, ROUND, 0.500, SA, 36	4'-2"
17	1	PLTPT2629	PLATE, TUBE, SHEET, 21.8125, OD, W/(10)03.125, DIA, HOLES, 0.500, PLATE, SA, 36	
18	2	STLFB0006	STEEL, FLATBAR, 0.250, X, 04.00, SA, 36	1'-5"
19	1	PLTPT0141	PLATE, BASE, 024, VERTICAL, VESSEL, 30.00, OD, X, 20.00, ID, W/(4), 0.875, BH, 27.00, BC, 0.500, PLATE, SA-36	
20	1	PLTPT2630	DIVERTER, INLET, 08.00, ANSI, 0600, LWN, 30.0625, L, 16.000, W, RADIUS, 11.000, 0.250, PLATE, SA, 36	
21	10	STLFB0004	STEEL, FLATBAR, 0.250, X, 02.00, SA, 36	2 11/16"
22	1	NAMEP0002	PLATE, NAME, KWI, ASME, NATIONAL, BOARD	
23	10	PLTPT0836	PLATE, FILTER, SUPPORT, 04.500, OD, X, 03.125, ID, 0.250, PLATE, SA, 36	
24	2	STLAN0003	STEEL, ANGLE, 0.250, X, 2.00, X, 2.00, SA, 36	3"



INLET DIVERTER DETAIL
SCALE 1 1/2" = 1'-0"

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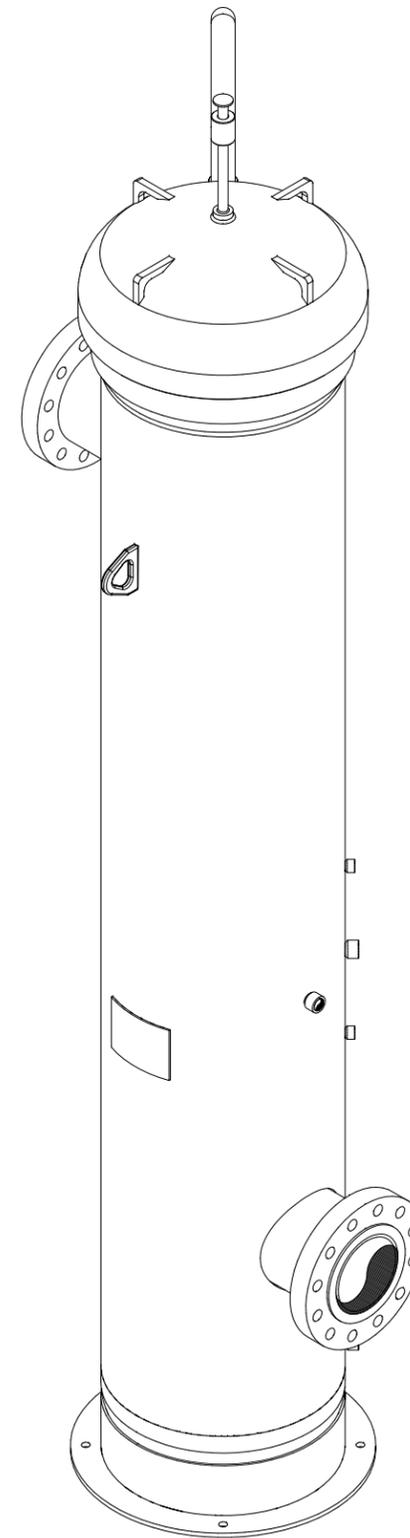
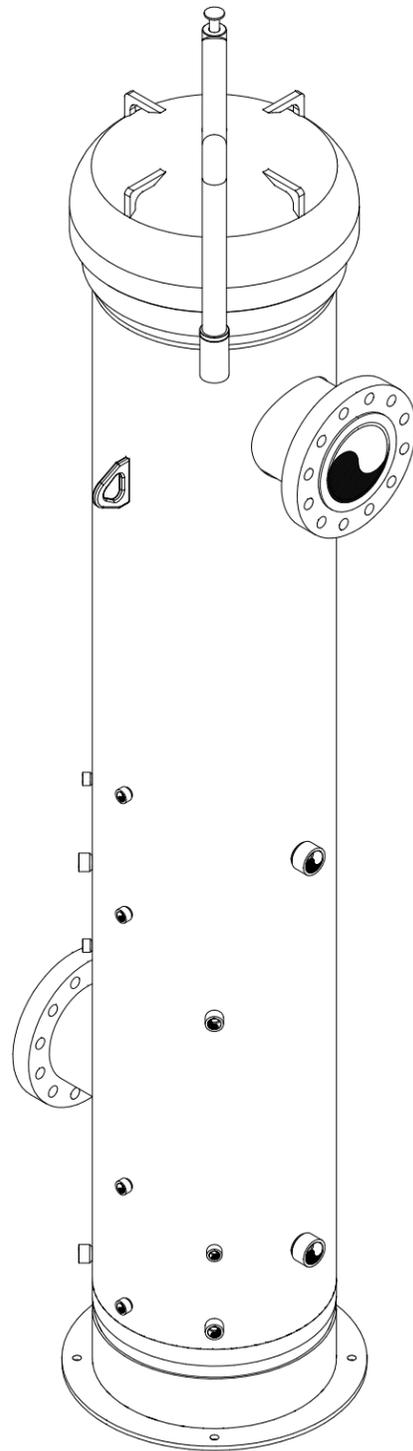


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REV.	DESCRIPTION	DATE	BY	CHK
2	UPDATED CODE EDITION, STANDARDS	02/12/20	PE	CV
1	REVISED CODE EDITION	09/05/19	CH	CV
0	ISSUED FOR CONSTRUCTION	09/06/17	JG	BEL

DATE	DRAWN	CHECKED	APPROVED
08/24/2017	JG	BEL	
CLIENT KW INTERNATIONAL			
TITLE REVERSE FLOW FILTER COALESCER 24" O.D. x 10'-0" S/S x 1440# MAWP @ 130°F (10 ELEMENTS)			
SCALE: AS NOTED		S.O.# -	
DRAWING NUMBER SEPV0032		SHEETS 2 OF 3	
		REV 2	

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ISOMETRIC VIEWS
SCALE N.T.S.

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REV.	DESCRIPTION	DATE	BY	CK
2	UPDATED CODE EDITION, STANDARDS	02/12/20	PE	CV
1	REVISED CODE EDITION	09/05/19	CH	CV
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		REV 2	

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