

198-2704

NOTES:

- 1) VESSEL IS DESIGNED PER ASME SECT. VIII DIV 1, ED. 2017
VESSEL INTERNAL DESIGN PRESSURE: 200 PSI @ 100°F
VESSEL IS NOT DESIGNED FOR EXTERNAL PRESSURE
MINIMUM DESIGN METAL TEMPERATURE FOR THE VESSEL: -20°F @ 200 PSI
- 2) CORROSION ALLOWANCE: 1/8"
- 3) NON-DESTRUCTIVE EXAMINATION:
a) VESSEL HYDROSTATIC TEST: 260 PSI @ 70°F
b) RADIOGRAPHY: YES, RT-1
c) HARDNESS TESTING: NO
d) VISUAL INSPECTION: YES
- 4) IMPACT TEST: NO, EXEMPT PER UCS-66 & UG-20(f)
- 5) PWHT REQUIRED: YES, FOR ONE HOUR @ 1150°F ±25°F
- 6) CRN REGISTRATION: YES, FOR PROVINCE OF BC/AB/SK
- 7) REQUIRED STAMPING: YES, U STAMP
- 8) NATIONAL BOARD REGISTRATION: NO
- 9) VESSEL SERVICE: SOUR, NON-LETHAL
- 10) USE MDA WELD PROCEDURE NO. CC-11 AND SC-13
- 11) NO WIND LOAD, NO SEISMIC LOAD AND NO NOZZLE LOADS.
- 12) THREE (03) VESSELS TOTAL. TAG NOS. F-2235-05/06/07

GENERAL NOTES:

- 1) REMOVE ALL WELD SPATTER-SLAG-LOOSE MILL SCALE-OIL-DIRT GREASE ETC.
- 2) FLANGE BOLT HOLES TO STRADDLE VESSEL CENTER LINES UNLESS SHOWN OTHERWISE.
- 3) NOZZLES TO BE COVERED WITH PLASTIC FLANGE PROTECTORS FOR SHIPPING.
- 4) SURFACE PREPARATION: SSPC-SP10
- EXTERNAL PAINT - MDA STANDARD, SAFETY BLUE
- INTERNAL PAINT - DEVCHEM 253, 3 COATS, 4-5 MILS PER COAT. TOTAL DFT 10-18 MILS AS PER PAINT MANUFACTURER
- 5) FLANGE AS PER ASME B16.5
- 6) CERTAIN ITEMS IN SOME VIEWS MAY BE OMITTED FOR CLARITY
- 7) VESSEL ACCOMMODATES FOURTEEN (14) P2 SIZE FILTER BAGS, L-TYPE RETAINER BASKET
- 8) APPROXIMATE VESSEL WEIGHTS AND VOLUME:
VOLUME: 255 US GALLONS
APPROXIMATE SHIPPING WEIGHT: 1,200 lbs
APPROXIMATE OPERATING WEIGHT: 3,325 lbs
- 9) ROUND INSIDE NOZZLE EDGES PER UG 76(c) - 1/8"
- 10) AT MIN. NOZZLES N1, N2, N3 & N4 TO BE FLUSH TO VESSEL ID
- 11) ALL DIMENSIONS ARE FROM MACHINED SURFACE UNLESS OTHERWISE SPECIFIED.

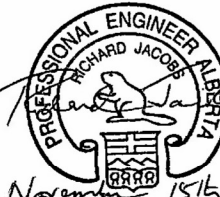
SAFETY CODES ACT - PROVINCE OF ALBERTA

REG. No. **21955-2**DWG. No. **198-2704 Rev 1**

MAWP	Design Temp °C
1339	38/-29

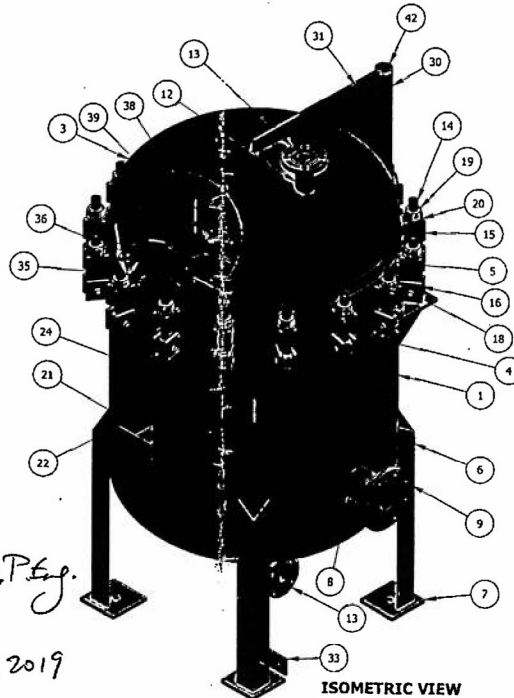
DEC 16 2019

ACCEPTED
Signed: *Tao Tang*
Date: _____
TAO TANG, P.Eng.
DESIGN SURVEY ENGINEER



November 15, 2019
(3 SHEETS)

BILL OF MATERIAL		
ITEM	QTY	DESCRIPTION
24	2	MDA STD. LIFTING LUG: 3/8" NOM. THK, 4" X 4" PLATE
25	1	BAFFLE: 3/8" NOM. THK, CUSTOM CUT
26	1	4 TON HYDRAULIC HACK
27	1	JACK SUPPORT: 1/2" THK X 12" X 6-1/2" PLATE
28	2	JACK SUPPORT GUSSET: 1/2" THK X 10" X 4-3/4" PLATE
29	1	DAVIT SLEEVE: 2 1/2" SCH. 40 X 9" LG PIPE
30	1	DAVIT ARM: 2" SCH. 80 X 27-7/8" LG PIPE
31	1	TOP DAVIT GUSSET PLATE: 1/2" THK, 23" X 17" X PLATE
32	1	BOTTOM DAVIT GUSSET PLATE: 1/2" THK, 3-3/8" X 8" X PLATE
33	1	GROUND LUG: 3/8" THK. X 5" X 2-1/2" X PLATE
34	1	DECK PLATE: 1" NOM. THK. X 37-3/16" OD
35	1	PRESSURE PLATE: 3/8" NOM. THK. X 36-11/16" OD
36	2	3/8" ROUND BAR 7-1/4" LG
37	1	CLOSURE O-RING: 0.275" DIA X 38-1/4" M. DIA
38	8	1/2" - 13 UNC X 3" LG STUD
39	8	1/2" - 13 UNC WING NUT
40	8	1/2" - WASHER
41	1	DAVIT BOTTOM COLLAR: 1/2" THK. X 1-15/16" OD
42	1	DAVIT TOP COLLAR: 1/2" THK. X 2-3/8" OD



ISOMETRIC VIEW

BILL OF MATERIAL		
ITEM	QTY	DESCRIPTION
1	1	SHELL: 3/8" NOM. THK. X 26" X 118.143" LG PLATE
2	1	BOTTOM HEAD: ASME 2:1 SE, 38" OD, 3/8" NOM. THK., 1.5" SF (0.3159" MAF)
3	1	TOP HEAD: ASME 2:1 SE, 38" OD, 3/8" NOM. THK., 1.5" SF (0.3145" MAF)
4	1	SHELL RING: 1" NOM. THK. X 6-1/8" (5.861" MIN. AFTER MACHINING) X 120" LG PLATE
5	1	HEAD RING: 1" NOM. THK. X 6-1/8" (5.861" MIN. AFTER MACHINING) X 120" LG PLATE
6	4	LEG: 1/4" X 3" X 3" X 30" LG ANGLE (FORMED)
7	4	FOOT PLATE: 1/2" NOM. THK. X 6" X 6" PLATE
8	2	N1/N2 NOZZLE: 4" - SCH XXS X 3-1/2" LG PIPE (ASME / ANSI B36.10)
9	2	N1/N2 FLANGE: 4" - 150# RFWN FLANGE - SCH XXS BORE (ASME/ANSI B16.5)
10	1	N3 PIPE: 2" - SCH XXS SMLS X 4" LG (ASME / ANSI B36.10)
11	1	N3 ELBOW: 2" - SCH XXS - 90 DEG LR SEAMLESS ELBOW (ASME / ANSI B16.9)
12	1	N4 PIPE: 2" - SCH XXS SMLS X 3" LG (ASME / ANSI B36.10)
13	2	N3/N4 FLANGE: 2" - 150# RFWN FLANGE - SCH XXS BORE (ASME/ANSI B16.5)
14	16	SWING BOLT: 1-1/4" - 7 UNC X 8" LG SWING BOLT
15	32	SWING BOLT LUG W/OUT HOLE: 1/2" THK X 3" X 3" PLATE
16	32	SWING BOLT LUG WITH HOLE: 1/2" THK X 3" X 3" PLATE
17	32	3/4" OUTSIDE RETAINING RING (NON-PRESSURE RETAINING)
18	16	SWING BOLT PIN: 3/4" DIA X 3-1/4" LG
19	16	1-1/4" - 7 UNC NUTS
20	16	1-1/4" PLAIN WASHER
21	1	NAMEPLATE BRACKET: 3" X 6" X 1/4" THK PLATE
22	1	NAMEPLATE BRACKET: 6" X 6" X 1/4" THK PLATE
23	1	MDA CODE PLATE STD. 22 Ga. NOM. THK.

REVISION HISTORY			
REV	DATE	DRAWN	APPROVED
1	11/13/2019	AD	RJ
0	10/21/2019	AD	RJ

CUSTOMER: WESTPOWER
PO NUMBER: P1505 0000172311
FILTER TAG NOS.: F-2235-05/06/07

DESIGN SPECIFICATIONS

CODE: ASME SECTION VIII DIV. 1, 2017 Ed
CRN: BC/AB/SK REQ'D
MAX. ALLOWABLE WORKING PRESS.: 200 PSIG @ 100°F
MAX. ALLOWABLE EXTERNAL PRESS.: N/A
MINIMUM METAL DESIGN TEMPERATURE: -20°F AT 200 PSIG
CORR. ALLOW.: 1/8"
HYDRO TEST: 260 PSIG
STAMP REQ'D: U
DRY WEIGHT: 1,200 LB
VOLUME: 255 US GALLON
INT. FINISH: SEE NOTES

X-RAY: FULL (RT-1)
PWHT: YES, SEE NOTES
IMPACT TEST EXEMPT: UCS-66 & UG-20(f)
FULL WEIGHT: 3,325 LB
FLUID: NON-LETHAL, SOUR
EXT. FINISH: SEE NOTES

MACHINING	WELD FABRICATION
ONE DECIMAL: .X = .01" TWO DECIMALS: .XX = .005" THREE DECIMALS: .XXX = .001" FOUR DECIMALS: .XXXX = .0005" MAIL MACHINING SURFACE ROUGHNESS: 125-250 AARH	WELT = 1/8" WELT = 1/8" WELT = 1/8" WELT = 1/8" 3rd ANGLE PROJECTION

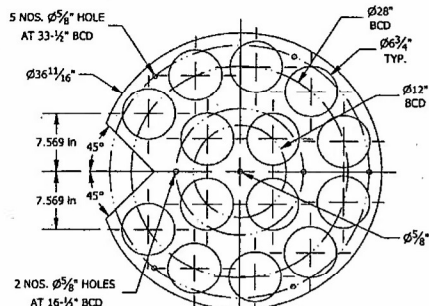
MDA
FILTRATION

GENERAL ARRANGEMENT DRAWING

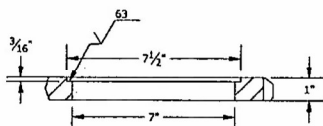
EQUIPMENT: MULTIBAG FILTER HOUSING, 14 ROUND, PN# HHMB14CS-4F-1-SR

CUSTOMER:		WESTPOWER	
DRAWN: AD	CHECKED: RJ	SCALE: NTS	FORMAT: B
DATE: 11/13/2019	DATE: 11/13/2019	WEIGHT: 1,200 LB	JOB NO: 2704
		DWG NO: 198-2704	SHEET: 3 OF 3
		REV: 1	

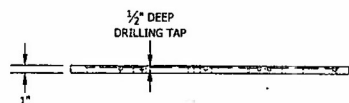
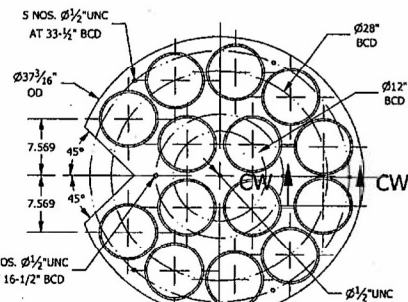
19B-2704



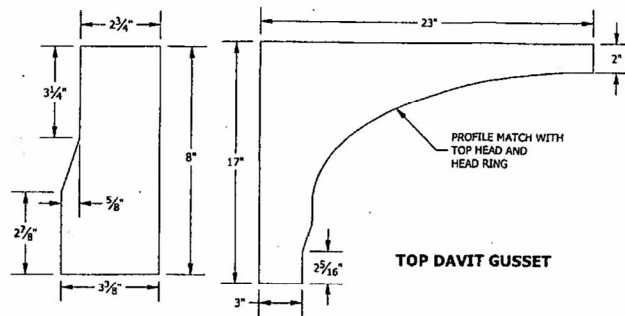
PRESSURE PLATE



DETAIL CW-CW

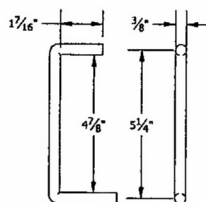


DECKPLATE

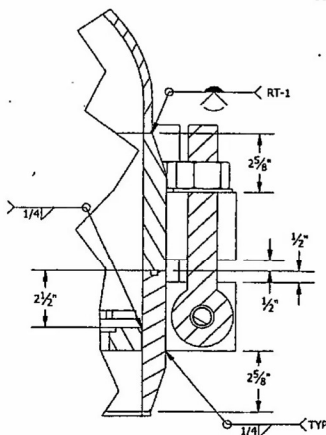


TOP DAVIT GUSSET

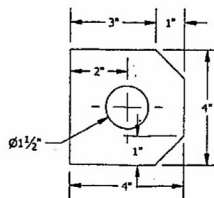
BOTTOM DAVIT GUSSET



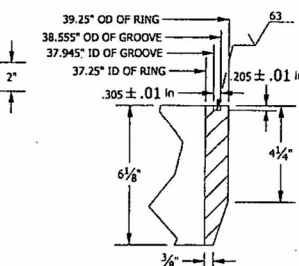
HANDLE



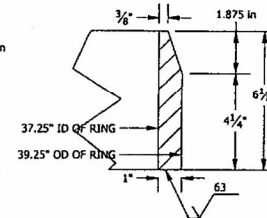
RING FLANGE ATTACHMENT



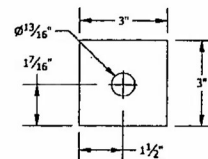
LIFTING LUG



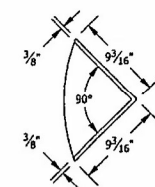
SHELL RING DETAIL



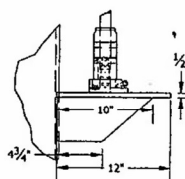
HEAD RING DETAIL



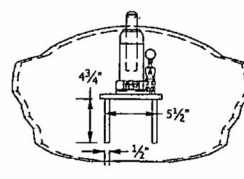
SWING BOLT LUG



BAFFLE DETAIL



HYDRAULIC JACK LUG



21955-2

REVISION HISTORY				
REV	DATE	DRAWN	APPROVED	DESCRIPTION
1	11/13/2019	AD	RJ	SWING BOLT BCD REVISED, MONTY CHANGED TO 205. ISSUED FOR PRODUCTION
0	10/23/2019	AD	RJ	ISSUED FOR PRODUCTION

CUSTOMER: WESTPOWER
 PO NUMBER: P1505 0000172311
 FILTER TAG NOS.: F-2350-05/06/07

DESIGN SPECIFICATIONS

CODE: ASME SECTION VIII DIV. 1, 2017 Ed
 CRN: BCI/BSK REQ'D
 MAX. ALLOWABLE WORKING PRESS.: 200 PSIG @ 100°F
 MAX. ALLOWABLE EXTERNAL PRESS.: N/A
 MINIMUM METAL DESIGN TEMPERATURE: -20°F AT 200 PSIG
 CORR. ALLOW.: 1/8"
 HYDRO TEST: 260 PSIG
 STAMP REQ'D: U
 DRY WEIGHT: 1,200 LB
 VOLUME: 255 US GALLON
 INT. FINISH: SEE NOTES

X-RAY: FULL (RT-1)
 PWMT: YES, SEE NOTES
 IMPACT TEST EXEMPT: UCS-66 & UG-20(f)
 FULL WEIGHT: 3,325 LB
 FLUID: NON-LETHAL, SOUR
 EXT. FINISH: SEE NOTES

MACHINING	WELD FABRICATION
ONE DECIMAL: .1" ± .01"	1/8" ± 1/16"
TWO DECIMALS: .01" ± .005"	3/16" ± 1/32"
THREE DECIMALS: .001" ± .0005"	1/4" ± .015"
MAX. MACHINED SURFACE ROUGHNESS: 125-250 AARH	30° ANGLE PROTECTION

MDA
 FILTRATION

GENERAL ARRANGEMENT DRAWING

EQUIPMENT: MULTIBAG FILTER HOUSING, 14 ROUND, P/N# HHMB14CS-4F-1-SR

CUSTOMER:		WESTPOWER				
DRAWN: AD	CHECKED: RJ	SCALE: NTS	FORMAT B	DWG NO:	SHEET: 3 of 3	REV:
DATE: 11/13/2019	DATE: 11/13/2019	WEIGHT: 1,200 LB	JOB NO: 2704	19B-2704		1