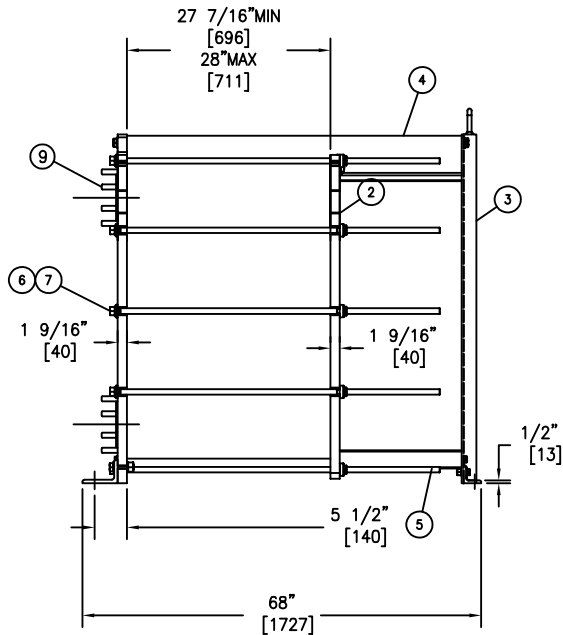
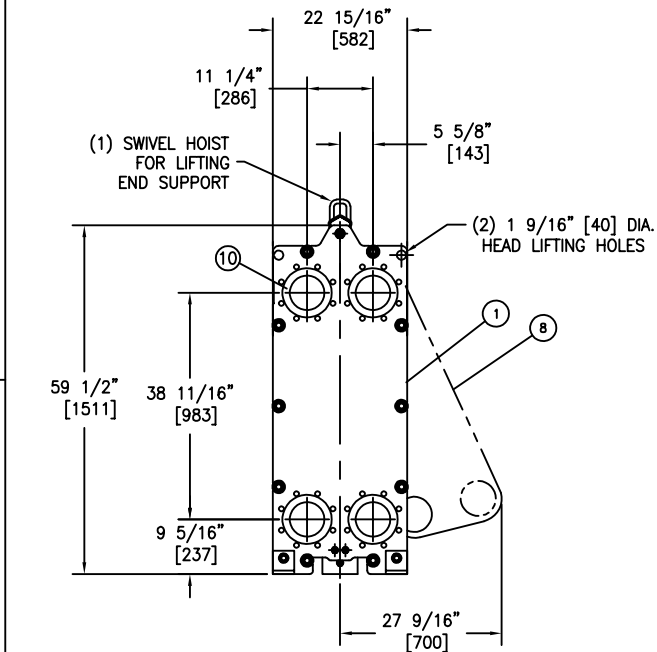
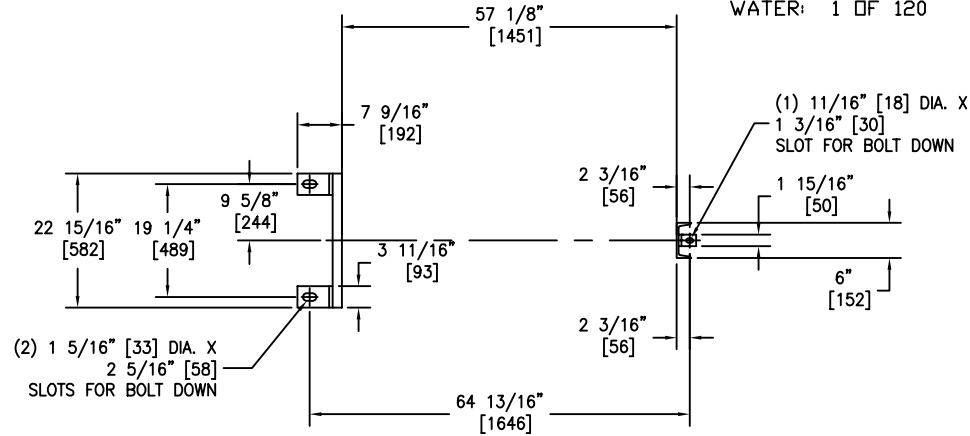
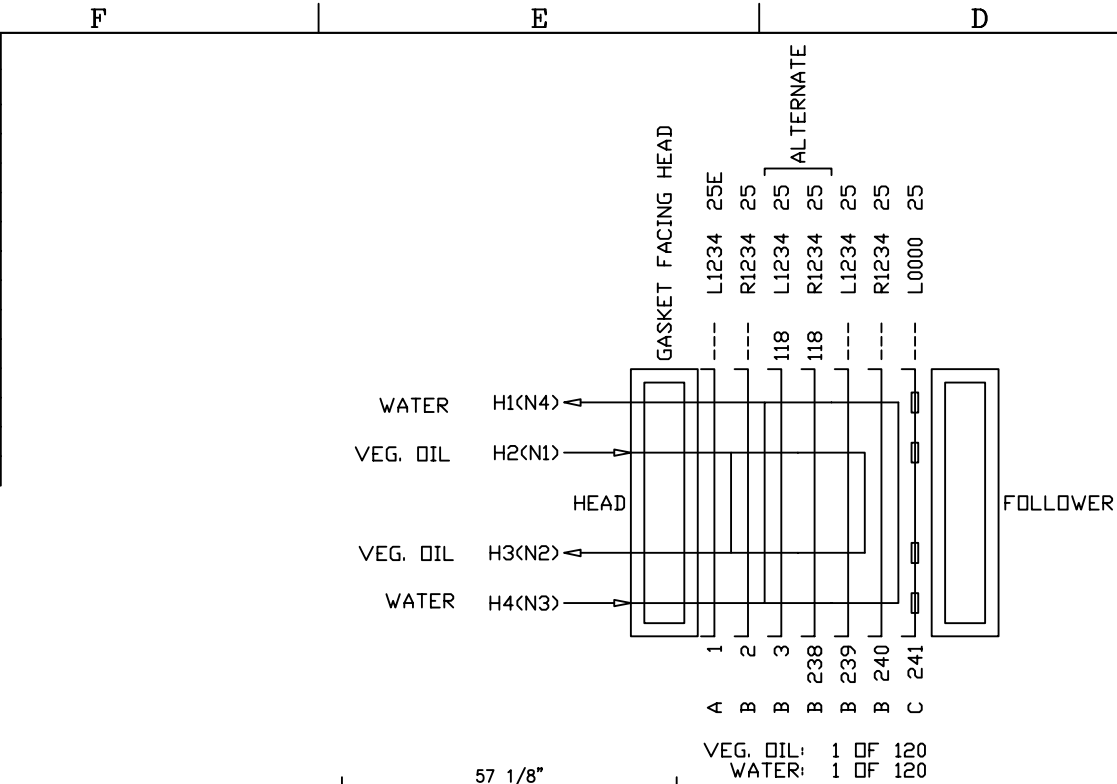
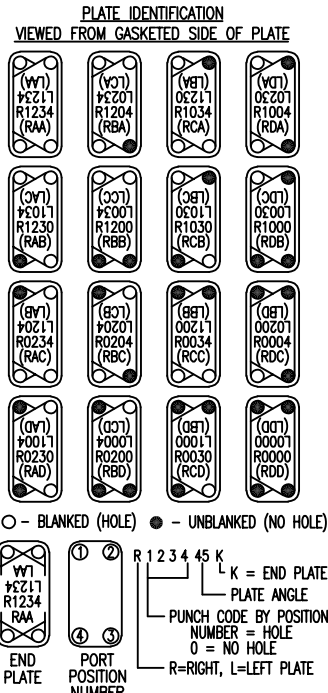
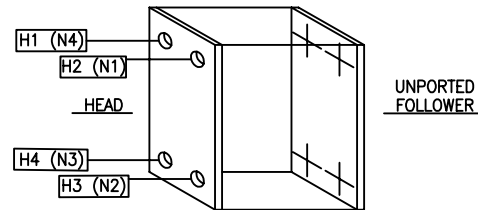


G		
MATERIALS OF CONSTRUCTION		
ITEM NO.	DESCRIPTION	MATERIAL
1	HEAD	SA516 GR70
2	FOLLOWER	SA516 GR70
3	END SUPPORT	A36
4	TOP BAR	SA240 TYP304
5	BOTTOM BAR	SA479 TYP304
6	M24 DIA. TIE BAR	SA193 GRB7 ZINC PLTD
7	TIE BAR HEX NUTS	SA194 GR2H ZINC PLTD
8	HEAT TRNSFR PLATES GAP 2.5MM	SA240 TYP316L
9	STUDS 3/4IN 10UNC QTY 8	SA193 GRB7 ZINC PLTD
	NUTS 3/4IN 10UNC QTY 8	SA194 2H ZINC PLATED
10	LINERS	SA240 TYP316L
	GASKETS	PARADUR (VITON)
	SPRAY SCREEN	SA240 TYP304



PROJECT - WORPAR
ITEM NBR - 681C2.2
eB NBR - 100199703.002
DATE - 14.12.2021



- THE INSTALLATION, OPERATION AND MAINTENANCE OF THIS HEAT EXCHANGER SHALL BE IN ACCORDANCE WITH THE APV PARAFLOW PLATE HEAT EXCHANGER INSTRUCTION MANUAL.
- THIS MODEL HEAT EXCHANGER IS TIGHTENED USING A WRENCH ON THE TIE BAR HEX NUTS AT THE HEAD AND FOLLOWER ENDS. CLEAN AND LUBRICATE THE THREADS BEFORE OPENING OR CLOSING USING A LUBRICANT COMPATIBLE WITH CARBON STEEL. **APV RECOMMENDS NEVER-SEEZ REGULAR GRADE. DO NOT USE COMMON GREASE.** THE PLATE PACK IS TO BE TIGHTENED IN ACCORDANCE WITH THE INSTRUCTION MANUAL SUPPLIED. DO NOT TIGHTEN BELOW THE MINIMUM DIMENSION SHOWN.
- THE CUSTOMER IS RESPONSIBLE FOR PROVIDING:
 - ANCHOR BOLTS PER ASTM A36 MINIMUM WITH A RECOMMENDED DIAMETER OF 1 1/8" AND 5/8".
 - PROTECTION AGAINST START UP OR OPERATING PRESSURES EXCEEDING THE MAXIMUM ALLOWABLE WORKING PRESSURE.
 - PIPING TO THE FOLLOWER OR CONNECTOR GRIDS THAT ALLOWS FOR FREE MOVEMENT WHEN THE UNIT IS OPENED FOR SERVICE AND PROVIDES FLEXIBILITY FOR THE VARIATION OF THE COMPRESSED PLATAGE DIMENSIONS.
- LINED STUDDED PORTS ARE PROVIDED WITH A SMOOTH RAISED FACE FINISH, DESIGNED TO MATE WITH ANSI B16.5 CL150 FLANGES.
- BOLT HOLES STRADDLE CENTERLINES SHOWN.
- DIMENSIONS ARE SHOWN IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.
- STANDARD TOLERANCES:
FRAME AND FOUNDATION BOLT LOCATIONS: ±1/4 INCH [±6mm]
NOZZLE CENTERLINE AND FACE DIMENSIONS: ±1/8 INCH [±3mm]

REV.	BY / DATE	CHK. BY / DATE	DESCRIPTION AND LOCATION
03	MPH/12DEC21		ADDED CUSTOMERS COMMENTS
02	MPH/23AUG21		ADDED CUSTOMERS COMMENTS, RELEASED FOR PRODUCTION
01	GAL/18MAY21		ADDED CUSTOMERS COMMENTS, REISSUED FOR APPROVAL

DESIGN SPECIFICATIONS	
DESIGN CODE	ASME SECTION VIII DIV 1
REF CALC: L039 M10 ASME-2019-US	2019 Edition
MAX. ALLOWABLE WORKING PRESSURE	150 PSIG.
MINIMUM DESIGN METAL TEMPERATURE	-20 °F. @ 150 PSIG.
HYDROTEST PRESSURE	195 PSIG.
MINIMUM OPERATING TEMPERATURE	32°F.
MAXIMUM OPERATING TEMPERATURE	320°F.
SERIAL NUMBER	D2021000061
HEAT TRANSFER AREA	1021.3 SQ.FT.
FRAME SIZE	No. 4
MAXIMUM FRAME CAPACITY	294 PLATES
DRY WEIGHT	2893 LBS.
FLOODED (OPERATING) WEIGHT	3501 LBS.
TOTAL LIQUID VOLUME	73.3 GALS.
FINISH	APV STANDARD PAINT 3196
ACCESSORIES SUPPLIED	ASME U STAMP, SS SHROUD DRIP PAN

OPERATING CONDITIONS			
LIQUID	FLOW RATE	TEMP. °F.	ΔP(PSIG)
VEG OIL	178036 lb/hr	184.8" → 122.0"	5.5
WATER	376720 lb/hr	98.5" → 113.4"	7.1
VEG OIL	178036 lb/hr	221" → 122"	5.1
WATER	376720 lb/hr	89.8" → 113.3"	7.2

Plates and Gaskets (Total: 241)		
Qty	Material No	ID Description
1	GLS12K4XPX6ADDXA	A L039S <TL> END 316L 0.6 P.DUR <3VID>
239	GLS12F4XPX6ADDXA	B L039S <TL> FLOW 316L 0.6 P.DUR <3VID>
1	GLS12F0XPX6ADDXA	C L039S <TL> FLOW 316L 0.6 P.DUR <3VID>
Frame (Maximum: 294)		
Qty	Material No	Description
1	G3900355AXAXAXAX	Follower
1	G3900351GIGIGIGI	Head
1	GL039XXY10XX41A	L039 Y-10 FS4
Fittings		
Qty	Material No	Pos Description
4	G060HCDPR40A	N1,N2,N3,N4 6" 316L C150 PL STUD HEAD
Accessories		
Qty	Material No	Description
1	GPM11PHE	PMI
1	GB510751-4	DRIP PAN LED 080 FS4
1	GASME U STAMP	FOR NON STANDARD UNITS
1	GB510201-C-696	SPRAY SCREEN L039 FS4

CONNECTION DETAIL		
N1	6 IN DIA	STUDDER 316L LINED CLASS 150
N2	6 IN DIA	STUDDER 316L LINED CLASS 150
N3	6 IN DIA	STUDDER 316L LINED CLASS 150
N4	6 IN DIA	STUDDER 316L LINED CLASS 150

Desmet Ballestra North America Inc.
Marietta, GA
Project ; WORPAR
D2021000061
Tag; 681C2.2, Client Tag; 19-X-860B
P.O.NO:P000028248

SPX FLOW US , LLC.
1714 Hobbs Drive
Delevan, WI 53115
Tel: 262-728-1900, 800-252-5200
WWW.SPXFLOW.COM

Description: L039 M-10 PLATE HEAT EXCHANGER		Scale: N.T.S.	Sheet: 1 OF 1
Checked: Date: 11AUG21	Supersedes: 3MAY21	Approved: Date: 11AUG21	Rev. 03