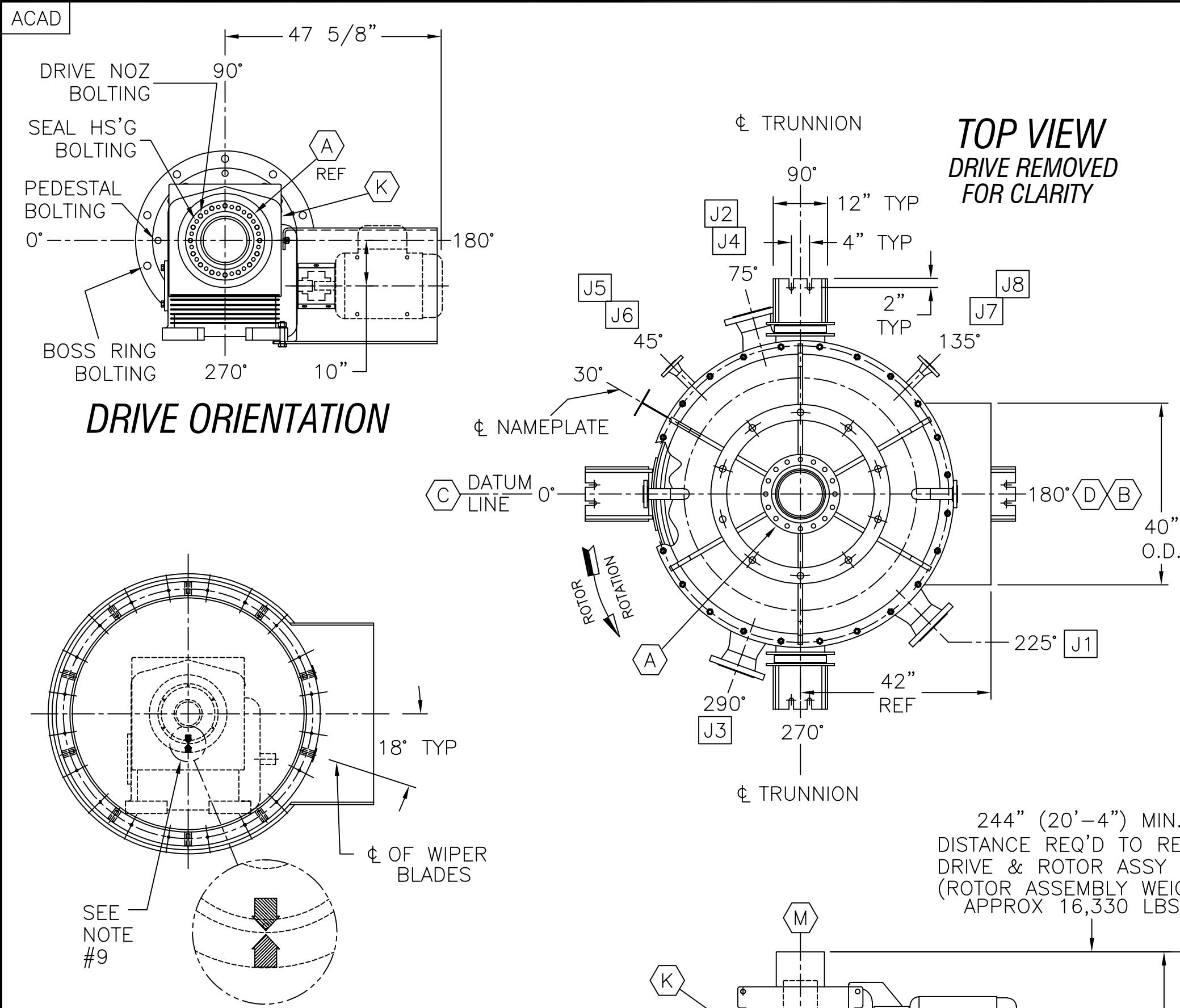




REF	SIZE	TYPE	MATERIAL	DESCRIPTION
A	10" CL300	LAP JOINT	316L SS *	DRIVE NOZZLE
B	40"	WELDED	316L SS	VAPOR OUTLET
C	2" CL150	LAP JOINT	316L SS *	FEED INLET
D	2" CL150	LAP JOINT	316L SS *	FEED INLET
E	3" CL150	LAP JOINT	316L SS *	BOTTOMS OUTLET
F	1" CL150	SLIP ON	316L SS	ROTOR INSPECTION PORT W/ BLIND FLANGE
G	1" CL150	SLIP ON	316L SS	ROTOR INSPECTION PORT W/ BLIND FLANGE
H	1" CL150	SLIP ON	316L SS	ROTOR INSPECTION PORT W/ BLIND FLANGE
J	1" CL150	SLIP ON	316L SS	ROTOR INSPECTION PORT W/ BLIND FLANGE
L	1" CL150	SLIP ON	316L SS	LEVEL SWITCH
J1	6" CL300	WELD NECK	C/STL	JACKET INLET
J2	6" CL300	WELD NECK	C/STL	JACKET INLET
J3	6" CL300	WELD NECK	C/STL	JACKET OUTLET
J4	6" CL300	WELD NECK	C/STL	JACKET OUTLET
J5	1 1/2" CL300	WELD NECK	C/STL	JACKET DRAIN
J6	1 1/2" CL300	WELD NECK	C/STL	JACKET DRAIN
J7	1 1/2" CL300	WELD NECK	C/STL	JACKET VENT
J8	1 1/2" CL300	WELD NECK	C/STL	JACKET VENT
K	-----	-----	-----	DRIVE ASSY 10RW, 70 RPM, 25HP MOTOR.
M	---	---	316L SS	ROTOR ASSY, CHEVRON ,W/ CENTRIFUGAL CARBON WIPERS
DG	---	"O"-RING	KALREZ 4079	DRIVE NOZZLE GASKET
TG	---	"O"-RING	PTFE ENCP VITON	MAIN FLANGE GASKET

* LAP JOINT CONNECTIONS SHALL BE MADE WITH 316L STN STL STUB ENDS WITH SA-105 C.S. (YELLOW ZINC CHROMATE COATED) LAP-JOINT FLANGES

- NOTES:
- EXTERIOR CARBON STEEL SURFACES TO BE PAINTED WITH (2) COATS OF FLAME CONTROL NO.850 SERIES PFAUDLER BLUE @ 1 TO 1.5 MILS DFT, APPLIED OVER A COMMERCIALY BLASTED SURFACE PER SSPC-SP6. COMMERCIAL PARTS TO BE PAINTED WITH SAME PAINT ALSO.
 - EXTERIOR STAINLESS STEEL SURFACES TO BE GLASS BEAD BLASTED AFTER ALL WELDING IS COMPLETE.
 - ALL MACHINED SURFACES MUST BE PROTECTED WHILE BEING MOVED THROUGH THE SHOP.
 - RUNOUT TEST: MOUNT DRIVE & ROTOR ASSEMBLY ON TEST STAND & CHECK RUNOUT OF ROTOR RUNNING AT TOP SPEED. MAX. RUNOUT NOT TO EXCEED 1/4" F.I.R.. MATCH MARK DISTRIBUTOR & SEPARATOR SECTION(S).
 - VACUUM TEST PER QC MANUAL SECT. E-3.
 - FLANGE CONNECTIONS TO STRADDLE CENTERLINES.
 - PRESSURE RELIEF DEVICE(S) PER PAR. UG-125 OF ASME CODE, SECT. VIII DIV 1. MUST BE PROVIDED AND INSTALLED BY CUSTOMER.
 - SIDE SUPPORTS DESIGNED FOR SEISMIC ZONE 4 (UBC).
 - IN ORDER TO AVOID INJURY AND ASSURE THE SAFE OPERATION OF ALL PFAUDLER VESSELS, NO VESSEL SHOULD BE OPERATED WITHOUT ALL OPENINGS AND PASSAGEWAYS SECURELY CLOSED. IN CASES WHERE THE TOP HEAD OF THE VESSEL HAS BEEN REMOVED, THE OPENING SHOULD BE SECURED BY A SUITABLE COVER WHILE THE VESSEL IS IN OPERATION. ALL PERSONS OPERATING A PFAUDLER VESSEL SHOULD HAVE PRIOR INSTRUCTION IN THE PROPER USE OF THE VESSEL DURING OPERATION.
 - BEFORE LIFTING DRIVE AND ROTOR ASSEMBLY, REMOVE DUST CAP FROM TOP OF DRIVE AND ALIGN MATCH MARKS TO PREVENT WIPERS FROM FALLING INTO VAPOR OUTLET. (SEE DETAIL)
 - COVER FOR NOZZLE "B" TO BE WELDED AT ASSEMBLY. AFTER TESTING IS COMPLETE, NOZZLE IS TO BE TRIMMED TO PROJECTION SHOWN. NO WELD PREP IS REQUIRED.
 - CRN#: (jacket chamber only) later
 - INNER VESSEL DESIGNED TO ASME CODE, BUT NOT STAMPED.
 - SHIP LOOSE: - GEAR LUBE
- WIPER BLADES
- FORCED CIRCULATED LUBRICATOR
 - REMOVE INSULATION RING SEGMENTS TO CLEAR TRUNNIONS FOR LIFTING. REPLACE AT INSTALLATION.

BASE MATERIAL			
VESSEL SHELL	1/8"CLAD PLATE,SA264-316L ON 3/4" SA-516 GR 70 BACKING		
TOP HEAD	SA-240-316L		
BOTTOM HEAD	SA-240-316L		
JACKET SHELL	SA-516 GR70		
INTERNAL CONDENSER TUBES	----		
CONDENSER CHANNEL	----		
CONDENSER TUBESHEET	----		
THICKNESS			
	VESSEL	JACKET	INTERNAL CHAMBER
COVER - TOP	.75"F&D	----	----
HEAD - BOTTOM	.75"F&D	----	----
SHELL	3/4"	1/2"	----
LOWER SHELL	----	----	----
JACKET SEALER	----	1.25"	----
TUBES	----	----	----
TUBESHEET	----	----	----
DESIGN & INSPECTION			
SPECIFICATION	VESSEL	JACKET	INTERNAL CHAMBER
ASME CODE DESIGN & STAMP	(NOTE.12)	YES	----
DESIGN PRESS. PSI.	15/FV	110/FV/110*	----
DESIGN TEMP. °F.	650	650	----
MIN. DESIGN METAL TEMP. °F	-20	-20	----
HYDROTEST PRESS. PSI	21	153	----
RADIOGRAPH	N/A	N/A	----
CORROSION ALLOWANCE	N/A	N/A	----
HEAT TRANSFER AREA	N/A	231SQ.FT.	----
* WITH FULL VACUUM IN VESSEL			
SEE OPERATING LIMITATIONS, INSTALLATION & MAINTENANCE INSTRUCTIONS #IM 39-101			
TEMPERATURE LIMITATIONS: KALREZ "O" RINGS: 600°F MECHANICAL SEAL FOR SHAFT ENCLOSURE: 600°F			
CUSTOMER:	OCEAN NUTRITION		
ADDRESS:	MULGRAVE, NOVA SCOTIA		
CONSIGNEE:	OCEAN NUTRITION		
ADDRESS:	MULGRAVE, NOVA SCOTIA		
CUST. ORDER NO.:	----		
CUST. TAG NO.:	----		

VESSEL AND/OR JACKET COMPONENTS WELDED IN ACCORDANCE WITH WELD PROCEDURES IN SECTION DA-2-2.2 OF THE ROCHESTER WELDING MANUAL	LTR	REVISION	APP	DATE	VESSEL & JACKET FINISH	DRAWN	VANKERHOVE	11/12/02	TITLE: WIPED FILM EVAPORATOR MODEL 231-60 TVO 60" 231 SQ FT W/ SPIRAL JKT
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES	A	CUSTOMER APPROVAL CHANGES		12/18/02	VESSEL INT. 45-52 RA FINISH	CHECKED	KV/TE	12/06/02	
UNLESS OTHERWISE SPECIFIED, ALL FLANGES ARE A.N.S.I.					VESSEL EXT. MILL	APPROVED	T. ECKDAHL	12/06/02	PFAUDLER Pfaudler Inc. Rochester, NY
DESIGNED IN ACCORDANCE WITH SECTION VIII DIV. 1 OF THE ASME CODE, & IF APPLICABLE CUSTOMER SPEC'S, WITH PFAUDLER EXCEPTIONS					JACKET INT. MILL	SCALE:	1/2" = 1'-0"		
WORK FROM DIMENSIONS - DO NOT SCALE - SEE PLAN VIEW & BOTTOM VIEW FOR ORIENTATION					JACKET EXT. MILL	USED ON:			DRAWING NO. W031007 SHEET 1 REV A
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					PAINT SEE NOTE #1	ORDER NO.	W000136		JOB NO. J052580 ITEM NO. W031007
					ESTIMATED WEIGHTS				
					EST. WGT. (EMPTY)	36,300	LBS.		DRAWING NO. W031007 SHEET 1 REV A
					EST. WGT. (TOTAL, FULL OF WATER)	64,300	LBS.		
					EST. SHIP WGT.	37,600	LBS.		