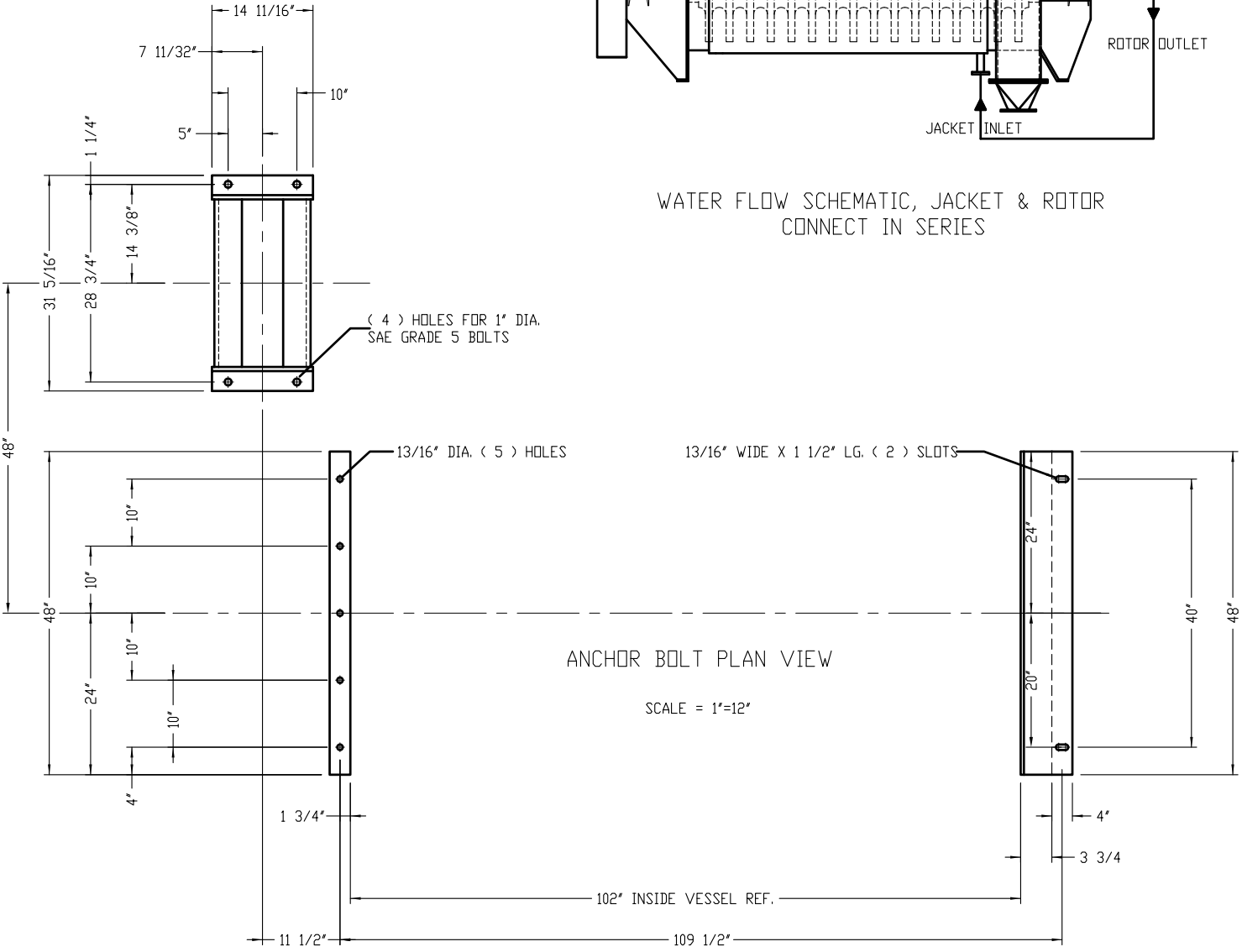
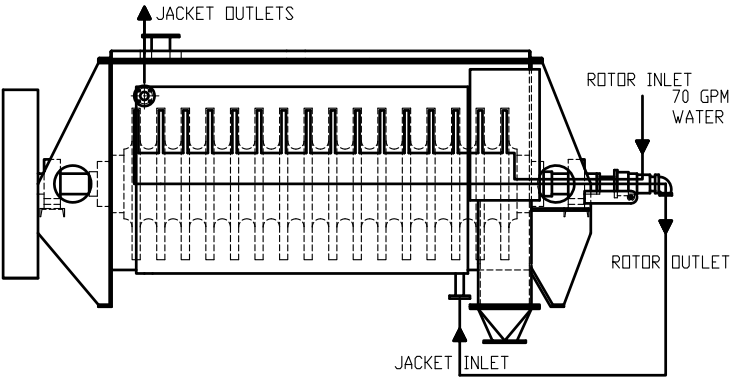


TORUS DISC DATA				
DESIGN DATA		VESSEL	JACKET	ROTOR
CODE "U" STAMP REQD.		NO	YES	YES
DESIGN PRESSURE (PSIG)		5	75	75
DESIGN TEMP. (°F)		450	450	450
HYDROSTATIC TEST PRESSURE (PSIG)		N/A	132	132
CORROSION ALLOWANCE		N/A	N/A	N/A
RADIOGRAPH		N/A	N/A	N/A
JACKET TYPE	☒ STAYED PLATE	☐ DIMPLED		
JACKET & ROTOR HEAT TRANSFER MEDIA		COOLING WATER		
FLOW RATE 70 GPM		PRESSURE DROP PSIG 15		
MATERIAL				
VESSEL PLATES	SA-240-304SS			
END PLATES	SA-240-304SS			
JACKET PLATE	SA-240-304SS			
SUPPORTS	C/S			
NOZZLE NECKS	SA-312T-304SS			
FORGED FLANGES	SA-182-F-304SS			
PLATE FLANGES	SA-240-304SS			
PAD FLANGES	SA-240-304SS			
COUPLINGS	SA-182-F-304SS			
GASKETS	WHITE SILICONE			
REINFORCING PADS	N/A			
ROTOR	SA-240-304SS			
JACKET BARS	SA-479-304SS			
VESSEL COVER	304SS			
BOLTING	PRESSURE	SA-193-B7	NON-PRESSURE	SA-193-B7
NUTS	PRESSURE		NON-PRESSURE	
FINISHING				
EXT.	INT.	DESCRIPTION		
☒	☐	BEPEX #100 FINISH		
☐	☒	BEPEX #200 FINISH		
☒	☐	SURFACE PREP. PER A-328862 (SANDBLAST)		
☒	☐	PRIMER: PER A-328862 (HIGH TEMP. ALUM.)		
☐	☐	FINISH COAT:		
INSPECTION REQ'D.				
BEPEX		CUST.	NONE	
☒		☐	☐	
GENERAL NOTES:				
1..DESIGN FABRICATION & STAMPING IN ACCORDANCE WITH 1986 ASME CODE, SECTION VIII, DIVISION 1 & ADDENDA DATED DECEMBER 1986				
2.EACH REINFORCING PAD OR SEGMENT THERE OF SHALL HAVE 1/4" NPT TELL-TALE HOLE AND SHALL BE TESTED AT A PRESSURE OF ___N/A___ PSIG AIR.				
3.ALL FLANGE BOLT HOLES SHALL STRADDLE VESSEL CENTER-LINES UNLESS OTHERWISE NOTED.				
4.VESSEL SHALL BE THOROUGHLY CLEANED OF ALL SCALE, SPLATTER, FLUX, GREASE, DIRT AND ALL LOOSE FOREIGN MATTER.				
DRIVE DATA:				
☒ CONSTANT SPEED		☐ VARIABLE SPEED		
REDUCER: FALK MODEL 1060 FZ				
SERVICE FACTOR: 1.47		RATED H.P.: 29.5		
RPM'S IN 1800		RPM'S OUT 68		
MOTOR / REDUCER SLIDE BASE FALK # 60SB				
☒ CHAIN ASA # 120 #120-B-21 T. DRIVE SPRKT. #120-C-80 T. DRIVEN SPRKT.				
DRIVE GUARD: ☒ NON OIL BATH		☐ OIL BATH		
MOTOR:		H.P. 20	SERVICE FACTOR 1.0	RPM 1800
FRAME SIZE:		ENCLOSURE: 256 TEFC	460 VOLTS 3 PH. 60 HZ.	
DRIVE COUPLING:				
WEIGHTS:		EMPTY LBS.	FULL OF WATER LBS.	OPERATING
VESSEL WEIGHT WITH ROTOR		10000	16000	13000
ROTOR WEIGHT		5000		
DRIVE ASS'Y.		875		



R	1	1/2"	N.P.T.		N.P.T.	CPLG.	TEMPERATURE CONN.
Q	1	1"	N.P.T.		N.P.T.	CPLG.	TEMPERATURE CONN.
P1-P2	2	1/4"	N.P.T.		N.P.T.		SIGHT GLASS PURGE GAS
N1-N2	2	5"	5	SPEC.			SIGHT GLASS
M	1	1 1/2"	N.P.T.		N.P.T.		ROTARY JOINT OUTLET
L	1	1 1/2"	N.P.T.		N.P.T.		ROTARY JOINT INLET
K	1	12"X21"	5	SPEC.	F.F.		WEIR ACCESS
J1-J2	2	1/4"	N.P.T.				SEAL PURGE
H1-H2	2	3/4"	3000#			CPLG.	JACKET VENT /W PLUG
G	1	3/4"	3000#			CPLG.	JACKET DRAIN /W PLUG
F	1	3"	150	150#	R.F.	S.D.F.	JACKET INLET
E1-E2	2	1 1/2"	150	150#	R.F.	S.D.F.	JACKET OUTLET
D	1	4	5	150#	R.F.	S.D.F.	VAPOR OUTLET
C							
B	1	6"	5	150#	F.F.		PRODUCT OUTLET
A	1	6"X6"	5	SPEC	F.F.		MAT'L. INLET
MARK	QTY.	SIZE	FLANGE RATING	FLANGE DRILLING	FLANGE FACING	FLANGE TYPE	SERVICE
NOZZLE SCHEDULE							



WATER FLOW SCHEMATIC, JACKET & ROTOR
CONNECT IN SERIES

ITEM	QTY	MAT'L	PART NO.	DESCRIPTION	WEIGHT
1	1		(D) 339995	BODY	
2	1		(D) 340047	COVER	
3	1		(D) 339931	ASSY, ROTOR	
4	1		(D) 339984	ASSY, SEAL & BEARING (TAIL END)	
5	1		(D) 339704	ASSY, SEAL & BEARING (DRIVE END)	
6	62	CS		BOLT, HEX HD 5/8-11 NC X 3 LG.	
7	62	CS		NUT, HEX 5/8-11 NC	
8	62	CS		WASHER, PLAIN 5/8 NOM.	
9	1	WHITE SILICONE	(A) 339986	GASKET	
10	1		(C) 339987	FLANGE, DISCHARGE TRANSITION	
11	1		(B) 339988	COVER, WEIR PLATE	
12	16	CS		BOLT, HEX HD, 1/2-13 NC X 1 1/2 LG	
13	1		(A) 340049	SIGHTGLASS (WITH SPRAY NOZZLE)	
14	16	CS		WASHER, PLAIN	
15	1	WHITE SILICONE	(B) 339989	GASKET	
16	1		(A) 190584	SIGHT GLASS	
17	1		(B) 339936	JOINT, ROTARY	
18	1		(D) 339992	GUARD, CHAIN	
19	1			REDUCER FALK 202-1060 FZ (68 RPM OUTPUT)	
20	1			MOTOR 20 HP-TEFC FRAME 256T 1800 RPM 460V 3PH 60HZ	
21	1			SLIDE BASE FALK 60SB	
22	1			SHEAVE, DRIVE ASA 120-2-21T TYPE B	
23	1			SHEAVE, DRIVEN ASA 120-2-80T QD-TYPE C5	
24	1			CHAIN, DRIVE ASA 120-2	
25	1		(C) 339993	ASSY, ZERO SPEED SWITCH	
26	1		(D) 339994	ASSY, DUMP GATE	
27	12	CS		BOLT, HEX HD 1/2-13 NC	
28	28	CS		NUT, HEX 1/2-13 NC X 2 LG	
29	12	CS		LOCKWASHER 1/2 NOM.	
30	1	WHITE SILICONE	(A)340002	GASKET	
31	1	304	(B)339985	WEIR PLATE # 1	
32	1	304	(B)340054	WEIR PLATE # 2	
33	1	304	(B)340055	WEIR PLATE # 3	
34	1	304	(B)340056	WEIR PLATE # 4	
35	1	304	(B)340057	WEIR PLATE # 5	
36	1	304	(B)339958	WEIR PLATE # 6	
37	15		(C)339544	PLOW STATIONARY	
38	60	SS		NUT,HEX 3/8-16NC	
39	60	SS		LOCKWASHER	

REV.	DATE	DCN NO	DESCRIPTION				DR	CHK
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TOLERANCES: UNLESS OTHERWISE SPECIFIED			ISO 128 METHOD A		TITLE TDJ 36-8 TORUSDISC			
FRACTIONS ±					GENERAL ASSEMBLY			
DECIMALS .XX ±			MACH. FIN. UNLESS NOTED		APP		SCALE AS NOTED	
ANGLES ±					CHK LEY		DRAWING NO.	
HOLES +.010, -.005					DR DR TARR		6/1/89	
USED ON TDJ 36/8			NEXT ASS'Y		D 506470		REV E	
PART NO. 506470			SIM. TO		ORIG. JOB NO.		SHEET 2 OF 2	