

MECHANICAL DATASHEET

FOR

SOUR WATER STRIPPER

T70-C-0102

00	02/06/22	ISSUED FOR CONSTRUCTION	EFC	DG	HNR		
Rev.	Date	Description	Prep	Chk	App		
		TRMP Revision History					
		This document is based on FEED document T70-C-DAT-PP-108913					

FOR ARRANGEMENT DRAWING REFER TO SHEET 006 OF 006

NOZZLE & MANWAY SCHEDULE							
MARK	SIZE	SERVICE	ASME CLASS	MARK	SIZE	SERVICE	ASME CLASS
N1	6"	SOUR WATER IN	300# S.R. RFWN	K1A/B	3"	LEVEL - ESD	300# S.R. RFLWN
N2	6"	STRIPPED WATER	600# S.R. RFWN	K2A/B	2"	LEVEL - DCS	300# S.R. RFLWN
N3	12"	SOUR GAS OUT	300# S.R. RFLWN	K3	3"	PRESSURE TRANS'R	300# S.R. RFLWN
N4A	8"	REBOILER FEED #1 (NOTE P11)	300# S.R. RFWN	K4A/B	3"	DIFF PRESSURE TRANS.	300# S.R. RFLWN
N4B	8"	REBOILER FEED #2 (NOTE P11)	300# S.R. RFWN	K5	2"	THERMOWELL (NOTE P18)	300# S.R. RFLWN
N5A	10"	REBOILER RETN #1 (NOTE P11)	300# S.R. RFWN	K6	2"	THERMOWELL (NOTE P18)	300# S.R. RFLWN
N5B	10"	REBOILER RETN #2 (NOTE P11)	300# S.R. RFWN	K7	2"	THERMOWELL (NOTE P18)	300# S.R. RFLWN
N6	4"	LIVE STEAM	300# S.R. RFWN	K8	2"	THERMOWELL (NOTE P18)	300# S.R. RFLWN
N7	4"	MIN FLOW (NOTE P19)	300# S.R. RFLWN	K9A/B	2"	LEVEL GAUGE, SKIMMING	300# S.R. RFLWN
N8	2"	VENT	300# S.R. RFLWN	M1	24" I.D.	MANWAY	300# S.R. RFWN
N9	2"	UTILITY CONNECTION	300# S.R. RFLWN	M2	24" I.D.	MANWAY	300# S.R. RFWN
N10	2"	FUTURE (ANTIFOAM) NOTE P9	300# S.R. RFLWN	M3	24" I.D.	MANWAY	300# S.R. RFWN
N11	2"	FUTURE (pH CONTROL) NOTE P9	300# S.R. RFLWN	M4	24" I.D.	MANWAY	300# S.R. RFWN
N12	2"	SKIMMING (NOTE P12, P16 & P24)	300# S.R. RFLWN				
N13	3"	DRAIN	300# S.R. RFLWN				

OPERATING CONDITIONS			MATERIALS OF CONSTRUCTION		INSULATION FIREPROOFING & PAINTING		
INTERNAL PRESSURE:	NORMAL:	31.3 (NOTE P1) psig	COMPONENT	ASME NO:	INSULATION THICKNESS:	HC (NOTE 15)	
	MAXIMUM:	34.5 (NOTE P1) psig	SHELL:		FIREPROOFING THICKNESS:	See Notes 16 & 17	
EXTERNAL PRESSURE:	NORMAL:	0 psig	- BASE MATERIAL	SA-516 GR 70N	SHOP PRIME & PAINT	SAES-H-001 & 101V	
	MAXIMUM:	0 psig	- CLADDING OR OVERLAY	SS 316 L	(SAPCS NO):	Note 7	
SERVICE	SOUR WATER (WET SOUR)		BOOT:		FIELD PRIME & PAINT	N/A	
If other (Specify)			- BASE MATERIAL	N/A	(SAPCS NO): #	N/A	
			- CLADDING OR OVERLAY	N/A	ESTIMATED VESSEL WEIGHTS:	(See Note 21)	
	NORMAL:	273 (NOTE P1) Deg. F	HEADS:		SHIPPING:	68895 lbs	
TEMPERATURE:	MAXIMUM:	280 (NOTE P1) Deg. F	- TYPE	2:1 ELLIPSOIDAL	EMPTY:	117396 lbs	
SPECIFIC GRAVITY OF LIQUID:	0.92		- BASE MATERIAL	SA-516 GR 70N	OPERATING:	284947 lbs	
VESSELS TO BE MANUFACTURED IN ACCORDANCE WITH 32-SAMSS-004			- CLADDING OR OVERLAY	SS 316 L	TEST:	104940 lbs	
AND APPLICABLE ADDENDUM.			STANDARD FLANGES	SA-350 LF2 + 3.2mm UNDILUTED W.O. SS 316 L (MIN. 2 LAYERS) (NOTE 40):	ERECTION (NOTE 42):	68895 lbs	
			PIPE:	SA-106 GR B + 3.2mm UNDILUTED W.O. SS 316 L (MIN. 2 LAYERS) (HOLD)	CAPACITY	971.1 ft3	
DESIGN CONDITIONS							
ASME DESIGN CODE & EDITION:	ASME Section VIII Div. 1 Ed.2019 (U-Stamp)		INT'L ATTACHMENT CLIPS:	SS 316 L	NOTES:	SEE SHEET 004 & 006 OF 006	
INTERNAL PRESSURE:	50 (NOTE 18) psig		EXT'L ATTACHMENT CLIPS:	SA-516 GR 70N			
EXTERNAL PRESSURE:	FV (NOTE P25) psig		STUD BOLTS:	SA-193 (B7M) (NOTE 23)			
TEMPERATURE:	330 Deg. F		NUTS:	SA-194 (2HM) (NOTE 23)			
M.D.M.T	34 (NOTE P26) Deg. F		INTERNAL'S:	SS 316 L			
REINFORCEMENT	Integrally Reinforced (NOTE 39)		- SKIRT:	SA-516 GR 70N			
WIND SPEED (50 year, 3-sec gust)	Exp. Cat : C, Importance Factor 1.15	90 mph	- SADDLES:	N/A			
ZONE:	See Note 33		- LUGS:	N/A			
EARTHQUAKE:	See Note 33		ANCHOR BOLTS (BY OTHERS)	ASTM F1554 Gr.36			
SOIL COEFF:	See Note 33		GASKETS:	Note 5			
Av:	See Note 33						
CORROSION ALLOWANCE:	Nil (Vessel is cladded with min. 3.2mm thk SS 316L)		in	SA-234 WFB + 3.2mm UNDILUTED W.O. SS 316 L (MIN. 2 LAYERS) (HOLD)			
RADIOGRAPHY:	HEADS: Full, SHELL: Full / Full		FITTINGS:	N/A			
IMPACT TESTING (IT):	<input checked="" type="radio"/> YES	<input type="radio"/> NO	CODE	SPECIAL FORGINGS (NOTE 40):	SA-350 LF2 + 3.2mm UNDILUTED W.O.		
PWHT:	<input checked="" type="radio"/> YES	<input type="radio"/> NO	CODE	NAMEPLATE / BRACKET	SS 304 / SA-516 GR 70		
I. T. TEMPERATURE	As per code / specification			LIFTING-LUG / TRUNNIONS	SA-516 GR 70N		
I. T. ENERGY AVE./MIN:	As per code / specification			STIFFENING RING	SA-516 GR 70N		
It is the responsibility of the contractor to ensure filling of this data sheet in compliance to the detailed company standard and material specifications							

