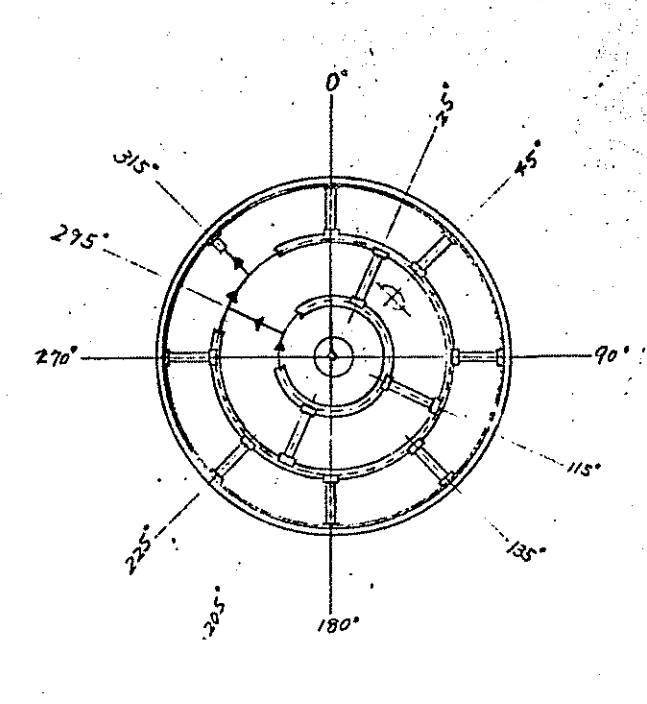
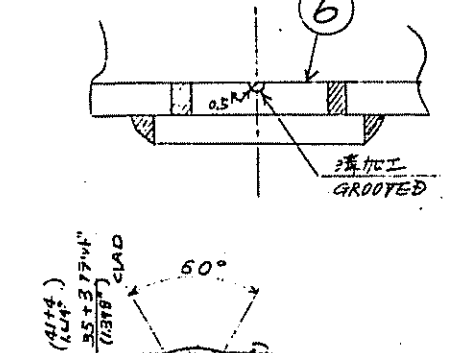


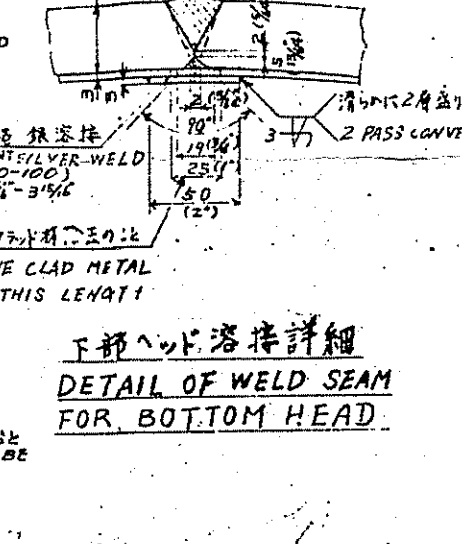


VIEW B-E



THIS LENGTH

下部ヘッド溶接詳細
DETAIL OF WELD SEAM
FOR BOTTOM HEAD



DET 11 "C"

6	条板	STRIP -	DCR1-0	150"				COPPER
5	条板	STRIP	TP20	150"				TP20 EQUIV. 1/115
4	ヘッド	BOTTOM HEAD		AS16-70 +TP20 CLAD	1 SET			
3	ヘッド	TOP HEAD		AS16-70 +TP20 CLAD	1 SET			
2	ヘッド	TOP HEAD		AS16-70 +TP18 CLAD	1 SET			
1	シェル	SHELL		TP20 CLAD	1 SET			TP20 EQUIV. 1/115
PART NO.	NAME		JIS	REG	SPARE	TOTAL	REMARKS	
MATERIAL				QTY-FOR		/SET		
3 SETS TO BE MANUFACTURED								SCALE 1/62
CUSTOMER'S APPROVAL								NOTE
FINAL								
FW CONTRACT NO. 1-15-1441								
FW REQ. NO. 1441-1121-A								
FW ORDER NO. 1023/1440								
TITLE								
(D-311) OXIDATION REACTORS A.B.C. S.H.E.L.L. (1/2)								
ICI FIBRES LIMITED/PROJECT P45/WILTM4 TEESIDE								
CHEMICAL PLANT DIVISION MITSUBI SHIPBUILDING & ENGINEERING CO. LTD.								
ISSUE DATE DESIGN DEPARTMENT DESIGNED BY DRAWN BY								

5. GENERAL NOTES

- 1) MANWAY TO BE PROVIDED WITH DAVID. H.H.T. SCOTCH.
- 2) I-C.A.F. GASKET FOR TRANSIT SUPPLIED FOR EACH BLANKED CONNECTION (SERVICE GASKET NOT BY TESSER FABRICATOR).
- 3) GASKETS MAY BE C.A.F. FOR TESTING. T.T. SCOTCH TRANSIT.
- 4) THREE DIA. 4 TO RE U.N.C. WITH 8 THREADS/INCH FOR 1" DIA & OVER UNLESS OTHERWISE NOTED. 指定 3 寸 DIA. 1" DIA 以下, U.N.C.
- 5) ALL PAD TYPE NOZZLES TO BE SUPPLIED WITH STUD BOLTS. ノット 及び スタッド ボルト 付.
- 6) WELDING PROCEDURES REQUIRED FOR ALL ALLOY MATERIALS & THE WELDING OF DISSIMILAR METALS. 溶接 及び 異種金属 間の 溶接 工 法 要 求.
- 7) ALL ELEVATIONS TAKEN FROM BOTTOM TAN. LINE
- 8) ALL INTERNALS TO BE REMOVABLE THROUGH MANWAY OR NOZZLES. 内部 及び 内部 寸法 及び 構造 等.
- 9) ALL INTERNAL PIECES TO BE REMOVABLE THROUGH NOZZLES. 内部 及び 内部 寸法 及び 構造 等.
- 10) HITE BEADS ARE NOT TO BE USED. 内部 及び 内部 寸法 及び 構造 等.

6. INSPECTION REQUIREMENTS

PROCEDURE OF FABRICATION, INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH FOLLOWING SPECIFICATIONS

- 1) 1441-1102A SPECIFICATION FOR TITANIUM CLAD VESSELS
- 2) 1441-10A1 DESIGN AND CONSTRUCTION REQUIREMENTS FOR PRESSURE VESSELS.
- 3) 1441-1100A GENERAL NOTES FOR PRESSURE VESSELS.

製 造, 検査 要 領, 工 法 要 求 等 について 規定 あり.

NOTES

1. THE FOLLOWING INFORMATION TO BE CLEARLY PRINTED ON SIDE OF FINISHED VESSEL.

見やすい所に下記記入の事。

HEAT TREATED VESSEL NO WELDING PERMITTED

2. VESSEL ITEM NUMBERS SHALL BE STENCILED IN AT LEAST TWO CONSPICUOUS LOCATIONS ON THE VESSELS.

機器番号も見やすい所に少なくとも2ヶ所ステンシール

DATE APR 17 1971	ISSUED FOR APPROVAL	APR 13 1971	FEET & INCH DIMENSIONS AND NOTES ARE ADDED	APR 19 1971	ORIENTATION & ELEVATION TO BE FINALIZED	JULY 1 1971	WELD SEAM POSITION AND NOZZLE OUTSTAND TO BE CHANGED	APR 23 1971	WELD SEAM POSITION, NOZZLE LIST CHANGED PARTLY	APR 16 1971	CHANGE RIGGATOR MOTOR MOUNT	1	DRAWN C. H. HARRIS	APR 16 1971	JOB CLASSIFICATION C-15001	JOB NO. TC 3368	WORK I
												2	CHECKED C. H. HARRIS	APR 16 1971		DWG NO. CR29730	REV 1
												3	APPROVED C. H. HARRIS	APR 16 1971			

D/A7/15/4010. PROJECT 8700
UNLESS SPECIFIED.

DIMENSIONS ARE IN mm

D/A7/15/4010. PROJECT 8700
UNLESS SPECIFIED.

- ① MATERIAL OF IN-TANK MIXED PARTS:- TITANIUM, GRADE 2
- ② TANK Baffles (BY CLIENT)
4 OFF @ 90°
- ③ MOTOR:- 110/55 KW (150/75 HP) △
FRAME:- B355S - TEFF. △
SPEED:- 1485/140 RPM. △
415 VOLT / 3 PHASE / 50 HERTZ
SUPPLIED & FITTED BY CLIENT.
- ④ HIGH SPEED FLEXIBLE COUPLING
FALK TYPE:- 100 T10.
FULLY GUARDED
- ⑤ ROTARY JOINT (FOR WATER COOLING)
TYPE:- BARCO "C", SIZE 2.
INLET CONNECTION:- 2" BSP
OUTLET CONNECTION:- 1 1/4" BSP
- ⑥ MECHANICAL SEAL (HARZ HP2A15T B)
DOUBLE-BALANCED TYPE.
INLET & OUTLET CONNECTIONS TO SEAL:- LUBRICANT - 3/8 BSP
COOLANT - 3/8 BSP
- ⑦ MIXER MOUNTING FLANGE
15" ANSI 300LB
OUTSIDE DIA - 711 mm
BOLT CIRCLE - 623 mm
NUMBER OF HOLES - 24
BOLT SIZE - 1 1/4" (32mm)
- ⑧ TANK NOZZLE DESIGN DATA.
DOWNWARD LOAD - 68.7 kN
TORQUE - 12.4 kNm
BENDING MOMENT - 63.5 kNm
DESIGN LOADS ARE GREATER THAN ACTUAL LOADS BY A SAFETY FACTOR CONSISTENT WITH CONSTRUCTION PRACTICES AND "LIGHTNING" EXPERIENCE.
- ⑨ ACTUAL NOZZLE LOADS.
DOWNWARD LOAD - 37.0 kN
TORQUE - 8.2 kNm
BENDING MOMENT - 4.8 kNm
THE ABOVE INFORMATION MAY BE USED AT THE DISCRETION OF THE CLIENT FOR THE DESIGN OF THE VESSEL MOUNTING NOZZLE, PROVIDED ADEQUATE LIMITS ARE PLACED ON PERMISSIBLE DEFLECTIONS & STRESSES. "LIGHTNING" DOES NOT WARRANT, GUARANTEE OR ASSUME RESPONSIBILITY FOR THE DESIGN OR CONSTRUCTION OF THE MOUNTING STRUCTURE FOR THE MIXER.
- ⑩ ALL IN-TANK HARDWARE TO BE DOUBLE NOTCHED - TRANSVERSE SAFETY WIRE FITTED ON SITE.
- ⑪ AS COMMON PRACTICE, TANK FLANGE BOLT HOLES ARE SHOWN STRADDLING TANK CENTRE LINE.
- ⑫ OUTBOARD SUPPORT FURNISHED BY "LIGHTNING" TO SUIT EXISTING VESSEL SUPPORT.
- ⑬ CLEARANCE REQUIRED FOR SEAL CARTRIDGE REMOVAL
- ⑭ STEADY BEARING: (SEE NOTE 13)
SEE DRAWING, FPT600 D
REACTION AT STEADY BEARING = 1300 kg
- ⑮ MINIMUM TANK OPENING SIZE REQUIRED = Ø 410 mm.

(16) IMPELLER DATA - LOWER UP THRUSTING
 TYPE : A200
 NUMBER OF BLADES : 4 OFF
 (SEE NOTE 19)

(17) IMPELLER DATA - UPPER
 TYPE : R100
 NUMBER OF BLADES : 4 OFF
 (SEE NOTE 19)

(18) SLINGER DATA
 TYPE : DISC
 NUMBER OF BLADES : 6 OFF
 (SEE NOTE 19)

(19) IMPELLER & SLINGER SYSTEM
 SPEED : 106/53 RPM
 ADJUSTMENT : NONE
 UPPER IMPELLER AND SLINGER ARE BOLTED TO RINGS THAT ARE SUPPLIED WELDED TO THE SHAFT ASSEMBLY. LOWER IMPELLER IS MATED ONTO SHAFT AT POSITION SHOWN
 NOTE:- SLINGER, R100 IMPELLER, A200 IMPELLER & STEADY BEARING ASSEMBLY COMPLETE WITH THEIR ASSOCIATED HARDWARE ARE EXISTING FROM PREVIOUS WORK NO PTO30 AND ARE SUPPLIED BY CLIENT.

(20) MIXER WEIGHT :

UNIT	Kg
MOTOR	2250
SHAFT	1200 Δ
IMPELLERS	145
SLINGER	41
TOTAL =	4086 Δ

(21) MIXER FOR USE ON
- T.T. OXIDATION REACTOR -

G311 A.B+C.

ALL EQUIPMENT DESIGN AND APPLICATION DATA SHOWN HEREIN, AND RELATED KNOW-HOW ARE CONFIDENTIAL AND THE PROPERTY OF ONE OR MORE OF THE COMPANIES LISTED BELOW. NO USE OR DISCLOSURE THEREOF MAY BE MADE WITHOUT OUR WRITTEN PERMISSION.

A					
A					
A					
A	27 FEB. 85	DW	DIMENSIONS ADDED, MOTOR WEIGHT ADDED, MOTOR DETAILS MODIFIED.		
REV.	DATE	BY	CHANGES		

CERTIFIED BY: D. J. ... DATE 27/11/1985

FOR: ICI - PLC WILTON WORKS.

MIXER MODEL 7250 S-125
 TAG No. _____
 PO No. 6212623544/1M1/WS
 REF. DWG. EH4084817 FOSTER WHEELWORKS
EH4084817 DR. NUMBER

LIGHTNIN
 MIXERS AND AERATORS
 A UNIT OF GENERAL SIGNAL

IN ENGLAND: LIGHTNIN MIXERS LTD. POYNTON.
 IN BELGIUM: LIGHTNIN BELGIUM S.A. FRAMERIES.
 IN W.GERMANY: DEUTSCHE LIGHTNIN G.m.b.H. 6078 NEU ISENBERG.
 IN FRANCE: LIGHTNIN FRANCE S.A. 60 COMPIEGNE.
 IN USA: MIXING EQUIPMENT CO. INC. ROCHESTER N.Y. 14603

LIGHTNIN
 GENERAL ARRANGEMENT
 INSTALLATION DRAWING

©

DRW. <u>AP</u>	CK'D. <u>D. J.</u>	DWG. No. <u>HP24157 A</u>	REV. <u>A</u>
DATE			

F/x/c 409891. $\Rightarrow$ CARTRIDGE SEAL ARRANGEMENT.