220635-NB

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

as required by the provisions of the ASME Code rules, Section VIII, Division .	
801 Dawson Drive	
. Manufactured and certified by Process Industries, Inc. Newark, DE 19713 (name and address of manufacturer)	
T. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	
. Manufactured for Arco Chemical Newtown Square, PA (name and address of purchaser)	
Same as Above	
2040 1 21 1989	
Type: Vert 8840-A 8840-1 21 1989 (Mar'i, tank) (mfr's, serial no.) (CRN) (drawing no.) (Nat'i, Bd. no.) (year built)	
the parties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSU	IRE
5. The chemical and physical properties of all parts freet the requirement of ASME Code, Section VIII, Division 1: 1986 (year)	1
thru 1987 (special service per UG-120(d)) (addenda (Date)) (Code Case no.)	
ems 6-11 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.	
0.4" 1 91/8"	
6. Shell: SA-240 TP304 3/16" None 24" 1' 81/8" (length (overall) (it. & in.)) (dia, ID (it. & in.)) (length (overall) (it. & in.))	ì
(mail: (spec. no) gradely 70 $$ $$ $\frac{db1}{ds}$ $\frac{N/A}{(RT(spot, partial, or full))}$ (no. of course	 5)
(RT (spot or full)) (RT (spot or full)) (eff. (%)) (HT temp. (*F)) (title)	
B. Heads: (a) SA 240 TP304 (b) SA 240 TP304 (mat'l. (spec. no., grade))	
(mat. lopes to grown Knuckle Elliptical Conical Hemispherical Flat Side to Press	
bottom, ends) Thickness Allowance Radius Radius Ratio Apex Angle Radius	
(a) Top 3/16" None 2:1 Concave	
(b) Bottom 3/16" None 2:1 1 1 1 1 1	
9. Type of jacket: Proof test: If bolted, describe or sl 0. Jacket closure: (describe as ogee & weld, bar, etc.) Froof test: If bar, give dimensions: If bolted, describe or sl Compared to the content of the c	etcl
0. Jacket closure: (describe as ogee & weld, bar, etc.)	
- 7/1 at hill by Hydro strategy fest pressure 2.2	sí)
tems 12 and 13 to be completed for tube sections.	
12. Tubesheets:	bolte
(stationary mat'l. (spec. no., gr.)) (tila. (iii.) (subject to process)	
(floating mat'l, (spec. no., gr.)) (dia. (in.)) (nom. thickness (in.)) (corr. allow. (in.)) (attachment)	
13. Tubes: (no.) (type (straight or	J))
(mat), (spec. no., yi)	
Items 14-17 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.	
14 Shell: (dia. iD (ft. & in.)) (length (overall) (ft.	in.))
14. Shell:	
15. Seams: (long (dbl., sngl.)) (RT (spot or full)) (eff. (%)) (HT temp. (*F)) (time) (girth (dbl., sngl.)) (RT (spot, partial, or full)) (no. of course)	rses)
16. Hoods: (a) (mat'i, (spec. no., grade))	
(mat'l. (spec. no., grade))	ssure
Location (top, bottom, ends) Location (top, bottom, ends) Thickness Allowance Radius	oncav
DOTTONI, ETC.)	
(a) (b)	
If removable, bolts used (describe other fastenings): (mat'l., spec. no., gr., size, no.)	
Hadra many or comb tost pressure	
17. MAWP:at max. temp Min design metal temp.:at Hydro., pneu. or comb. test pressure	(psi)

84. ZENPY#1853

18. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	Number	Dia. or Size	Туре	Mat'i.	Nom. Thickness	Reinforcement Material	How Attached	Location
Inlet	2	6"	Pipe	SA312	Sch 80	N/A	Welded	To Ho
	2	6"	Flg	SA182	150#	N/A	Welded	Pipe
View Port	1	4"	Pipe	SA312	Sch 80	N/A	Welded	Tp Ho
	1	4"	S/Ofle	SA182	150#	N/A	Welded	Pipe
SRV	1	3."	Pipe	SA312	Sch 80	N/A	Welded	Tp He
	1	3"	Flg	SA182	150#	N/A	Welded	Pipe
Drain Valve	1	2"	Disc-	304S/S		N/A	Welded	Bt Ho
Vent & Cage	1	1 1 11	Pipe	SA312	Sch 80	N/A	Welded	To Ho
	1	11 11	Flg	SA182	150#	N/A	Welded	Pipe
Inlets	2	1111	Pipe_	SA312	Sch 40	N/A	Welded	Shell
	2	112"	_Flg	SA182	150#	N/A	Welded	Pipe

19. Supports: Skirt NO Lugs NO Legs 3 Other (yes or no)	r Atlached Shell Welded (where and how)
20. Remarks: Manufacturers' Partial Data Reports properly identified an	nd signed by Commissioned Inspectors have been furnished for the
following items of the report:	
	rt, ilem number, mfr's, name and identifying stamp)
*This Head has a 2" St. Flg. plus an gr. 304 1/4" thk.	additional 2" of SA 479
gr. 304 1/4" thk.	
p	
CERTIFICATE OF SHO	DP COMPLIANCE
We certify that the statements made in this report are correct and that a	ll details of design, material, construction and workmanship of this
vessel conform to the ASME Code for Pressure Vessels, Section VIII, E	Division 1.
"U" Certificate of Authorization no. 18182 expires 1/6	, 19_92
Date 1/12/89 Name Process Industries I (manufacturer)	Inc. Signed (representative)
CERTIFICATE OF SHO	
Vessel constructed by Process Industries, Inc.	of Mossessia DE
I, the undersigned, holding a valid commission issued by The National Bo	at Newark, DE
ince of PA/DE and employed by HSBI & I Com	Dard of Boller and Pressure vessel inspectors and the state or prov-
of Hartford CThave in	renerted the pressure vessel described in this Manufacturers!
Report on 2 1989 and state that to the best of	nspected the pressure vessel described in this Manufacturers' Data if my knowledge and belief, the manufacturer has constructed this
pressure vessel in accordance with ASME Code, Section VIII, Division	t my knowledge and belief, the manufacturer has constructed this
By signing this certificate neither the inspector nor his employer makes	no warranty avaraged as in-lied appearing the
described in the Manufacturers' Data Report. Furthermore, neither the in	any warranty, expressed or implied, concerning the pressure vessel
sonal injury or property damage or a loss of any kind arising from or co	espected with this impostion
Date 11289 Signed Walls Comeans	Commissions NB4438 Pa 1786 DEL426
(Authorized Inspector)	(Nat'l. Bd. (incl. endorsements) state, prov. and no.)
CERTIFICATE OF FIELD ASS	SEMBLY COMPLIANCE
We certify that the field assembly construction of all parts of this vesse	el conforms with the requirements of Section VIII. Division 1 of the
ASME BUILER AND PRESSURE VESSEL CODE.	
"U" Certificate of Authorization noexpires	, 19
DateName	Signed
(assembler that certified and constructe	ed field assembly) (representative)
CERTIFICATE OF FIELD AS	SEMBLY INSPECTION
I, the undersigned, holding a valid commission issued by the National Bo	ard of Boiler and Pressure Vessel Inspectors and the state or prov-
and employed by	
Papart with the described process	have compared the statements in this Manufacturers' Data
Report with the described pressure vessel and state that parts referred to	as data items, not included in the
certificate of shop inspection, have been inspected by me and that to	the best of my knowledge and belief, the manufacturer has con-
structed and assembled this pressure vessel in accordance with ASME (Code, Section VIII, Division 1. The described vessel was inspected
and subjected to a hydrostatic test ofpsi.	
By signing this certificate neither the inspector nor his employer makes a	any warranty, expressed or implied, concerning the pressure vessel
described in the Manufacturers' Data Report. Furthermore, neither the in	spector nor his employer shall be liable in any manner for any per-
sonal injury or property damage or a loss of any kind arising from or co	
DateSigned(Authorized Inspector)	Commissions
(and a second	(Nal'!. Bd. (incl. endorsements) state, prov. and no.)