

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

V-35084/3

1. Manufactured by Industrial Alloy Fabricators, Inc. Richmond, Virginia
(Name and address of Manufacturer)

2. Manufactured for F.M.C. Corporation Baltimore, Maryland # 9354
(Name and address of Purchaser)

3. Type horizontal Vessel No. (28356-2) (((State & State No.)) Natl. Bd. No. 167 Yr. Built 1976
(Horiz. or Vert.) (Mfrs. Serial)

4. SHELL: Material SA240T304L T.S. 70000 Nominal Thickness 5/16 Corrosion Allowance 1/16 In. Diam. 6 ft. 0 in. Length 20 ft. 2 in.
(Kind & Spec. No.) (Fig. or F.B. & lowest T.S.)

5. SEAMS: Long Welded Double S.R. no X.R. no Sectioned no Efficiency 70 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth Welded Double S.R. no X.R. no Sectioned no No. of Courses 3

6. HEADS: (a) Material SA240T304L T.S. 70000 (b) Material SA240T304L T.S. 70000
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)

(a) Ends 9/32 66 4 3/8 --- --- --- --- Concave

(b) --- --- --- --- --- --- --- --- ---

If removable, bolts used --- Other fastening ---
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 35 psi at max. temp. 280 °F. Min. temp. (when less than -20°) --- °F. Hydrostatic Pneumatic or Combination Test Press 55 psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number 1 Size 3" Location top centerline

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Outlet	2	6" IPS	welded	SA312T304L	.280	None	Welded
Instr.	1	4" IPS	"	"	.237	"	"
Outlet	1	3" IPS	"	"	.216	"	"
Instr.	1	1 1/2" IPS	"	"	.200	"	"
Inlets	6	1" IPS	"	"	.179	"	"

10. INSPECTION Manholes, No. 3 Size 18" dia. Location top centerline & both heads
OPENINGS: Handholes, No. 2 Size 10" dia. Location top
Threaded, No. --- Size --- Location ---

11. SUPPORTS: Skirt no Lugs no Legs no Other 2 saddles Attached bottom & welded
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS (List applicable special services in accordance with UG-120(d)): Chemical Process Vessel for Non-Lethal Service with 14 ga. x 36" x 90" SA240T304L dimpled jacket welded to bottom. Dimples on 2 1/2" square pitch with three 1" IPS welded SA312T304L 0.133" thick none reinforced steam & condensate connections. Jacket to be stamped for full vacuum & 50 deg. F pressure at 320 deg. F with no corrosion

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.
if postweld heat-treated.
List other internal or external pressures with coincident temperature when applicable.

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division I.
Date June 29 19 76 Signed Industrial Alloy Fabricators W R
(Manufacturer)

Certificate of Authorization No. 8351 Expires March 30, 1977

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Industrial Alloy Fabricators Richmond, Virginia

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province Ohio & Pa and employed by Arkwright Boston Mutual Ins. Co. Waltham, Mass. Mutual Boiler & Machy Div. have inspected the pressure vessel described in this manufacturer's data report on June 29 19 76 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date June 29 19 76 Inspector's Signature C. W. Bragg Commissions NB 4750
Natl. Board, State, Province and No.

APPROVED FOR ENROLLMENT
29 SEP 1976
S. RAYSHANKAR
Engineering Department
A detailed and dimensions are the responsibility of the vendor. This approval does not relieve the vendor of his obligation to meet specifications and all other requirements of the subcommittee on engineering.

V.P. 35421-0801-215-41

T-17640, NP - TIF

Name Plate Data

93545

Inspection Data: 04/10/01

Equipment Number: T-17640 (built & stamped as V-3508-B)

Manufacturer: Industrial Alloy Fabricators

Address: _____

P.O. Number: _____

Year Built: 1976

Serial Number: 28356.2

N.B. Number: 166

Design Temperature: 280 °F Jacket 320 °F

Design Pressure: 35 psig Jacket 50 psig & FV

MAWP: _____

MDMT: -20 °F

Material: _____

Specific Gravity: _____



Rev	Date	Reviewed by:	Approved by: Engineering Manager
0	6/13/01	J. Angelo	

EQUIPMENT - DATA SHEET

Equipment : T-17640 (Recovered Toluene Tank)
Manufacturer : Industrial Alloy Fabricators, Inc.
Year Fabricated : 1976 (Tank built as V-3508B)
Natl. Board No. : 167 (Name Plate Stamp Number 166)
Serial No. : 28356-2
Classification : Class 2
PSM Covered : Yes
P&ID's : 11-F-718
TML Dwg No. : PSM-T17640
Contents :

93545

Item		Vessel
Design Condition		
Internal Pressure	(psig)	35
External Pressure	(psig)	2
Design Temperature	(°F)	280
MDMT	(°F)	-20
Hydrotesting	(psig)	55
Head Type (top/Bottom)		F&D
Material of construction		SA-240 -Ty304L
Diameter		6'-0" (OD)
Length		18'-0" TL to TL
Corrosion Allowance		0.0625"
Heat treatment		N/A
Min. Wall Thickness (shell/head)		0.229" / 0.224"
Nom. Wall Thickness (shell/head)		0.3125" / 0.3125"
Operation Condition		
Operation Pressure	(psig)	2
Operation Temperature	(°F)	140

