

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

1. Manufactured and certified by HAYWARD IND. PROD. INC., 900 FAIRMOUNT AVE., ELIZABETH, NJ 07207
 (Name and address of manufacturer)

2. Manufactured for PFI CONSTRUCTION CORP., 160 FEDERAL ST., BOSTON, MA 02110
 (Name and address of purchaser)

3. Location of installation NOT KNOWN

4. Type VERT 23324-1 — FAB99105 REV. B 3227 2000
 (Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1998

to 1999 Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA53 GR.B .375" 0.0" 1'-0" 3'-9.188"
 Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: ERW PIPE NONE 85% — — NONE 1
 Long. (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA105 (b) Mat'l. SA516 GR70
 (Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	<u>TOP</u>	<u>1.25"</u>	<u>0.0"</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>19"</u>	<u>—</u>
(b)	<u>BOTTOM</u>	<u>.702</u>	<u>"</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>13.58"</u>	<u>—</u>

If removable, bolts used (describe other fastenings) SA193-B7.12, 7/8"-9; SA194-2H, 24, 7/8"-9
 (Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 162 + FV psi at max. temp. 150 °F
 Min. design metal temp. -20 °F at 162 psi. Hydro., new or comb. test pressure 243 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
<u>IN/OUTLET</u>	<u>2</u>	<u>8"</u>	<u>B36.10</u>	<u>SA53 GR.B</u>	<u>.322"</u>	<u>INHERENT</u>	<u>WELDED</u>	<u>—</u>
<u>DRAIN</u>	<u>1</u>	<u>1"</u>	<u>B16.11</u>	<u>SA105</u>	<u>3000 AC</u>	<u>"</u>	<u>"</u>	<u>—</u>
<u>VENT</u>	<u>1</u>	<u>1/2"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>—</u>

11. Supports: Skirt NO Lugs 2 Legs 3 Other — Attached SHELL & BOTTOM HD, WELDED
 (Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NA

(Name of part, item number, Mfr's name and identifying stamp)

PRESS. RELIEF I.A.W. UG-125, RESPONSIBILITY OF OWNER/USER
EXEMPT FROM IMPACT TEST PER UG-201F). HYDRO-TESTED IN VERTICAL POSITION
8" 150# 950B REG 139773

CERTIFICATE OF SHOP COMPLIANCE

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 1. "U" Certificate of Authorization No. 21425, expires AUG 21, 2001
 Date 12-18-2000 Co. name HAYWARD IND. PROD. INC. Signed Bruce H. Gandy
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by HAYWARD IND. PROD. INC. at 900 FAIRMOUNT AVE., ELIZABETH, NJ 07207

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NEW JERSEY and employed by HSB 1+1 CO HARTFORD, CT

have inspected the component described in this Manufacturer's Data Report on 11-29-2000, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. 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 12-18-2000 Signed [Signature] Commissions NB11005 ANJ1012
 (Authorized Inspector) (Nat'l. Board (incl. endorsements), State, Prov. and No.)

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 (Name and address of manufacturer)

2. Manufactured for PFI CONSTRUCTION CORP., 160 FEDERAL ST., BOSTON, MA 02110
 (Name and address of purchaser)

3. Location of installation NOT KNOWN
 (Name and address)

4. Type VERT 23324-2 — FAB99105 REV. B 3228 2000
 (Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1. 1998
 to 1999
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA53 GR. B .375" 0.0" 1'-0" 3'-9.188"
 Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: ERW PIPE NONE 85% — — NONE 1
 Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) EN. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

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 (Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
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(b)	<u>BOTTOM</u>	<u>.702</u>	<u>"</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>13 5/8"</u>	<u>—</u>

If removable, bolts used (describe other fastenings): SA193-B7.12, 7/8"-9; SA194-2H, 24, 7/8"-9.
 (Mat'l., Spec. No., Gr., Size, No.)

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<u>DRAIN</u>	<u>1</u>	<u>1"</u>	<u>B16.11</u>	<u>SA105</u>	<u>3000 HC</u>	<u>"</u>	<u>"</u>	<u>—</u>
<u>VENT</u>	<u>1</u>	<u>1/2"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>—</u>

11. Supports: Skirt NO Lugs 2 Legs 3 Other — Attached SHELL & BOTTOM, WELDED
 (Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NA

(Name of part, item number, Mfr's. name and identifying stamp)

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EXEMPT FROM IMPACT TEST PER UG-201F. HYDRO-TESTED IN VERTICAL POSITION
8" 150# 950B REG 139773

CERTIFICATE OF SHOP COMPLIANCE	
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 1. "U" Certificate of Authorization No. <u>21425</u> expires <u>AUG. 21, 2001</u>	
Date <u>12-18-2000</u> Co. name <u>HAYWARD IND. PROD. INC.</u> Signed <u>Bruce H. Fink</u>	(Manufacturer) (Representative)
CERTIFICATE OF SHOP INSPECTION	
Vessel constructed by <u>HAYWARD IND. PROD. INC.</u> at <u>900 FAIRMOUNT AVE., ELIZABETH, NJ 07207</u>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>NEW JERSEY</u> and employed by <u>HSB 1+1 CO HARTFORD, CT</u>	
have inspected the component described in this Manufacturer's Data Report on <u>11-29-2000</u> , and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. 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 <u>12-18-2000</u> Signed <u>[Signature]</u> Commissions <u>NB11005 ANJ1012</u>	(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)