

105801

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

1. Manufactured and certified by: Vernon Mfg. Co. 8375 S. 89 W. Ave. Tulsa, OK 74131  
(Name and address of manufacturer)

2. Manufactured for: Southwest Filter Co. P.O. Box 580608 Tulsa, OK 74158-0608  
(Name and address of purchaser)

3. Location of installation: Giant Ind. Grafton, VA  
(Name and address)

4. Type: Vert. 072130-3,-4 D-10608 1118, 1119 2007  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Mat'l Bld. 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 2004  
to 2006  
(Addenda (Date)) (Code Case Nos.) (Special Service per UG-120 (d))

6. Shell SA-106-C .375" .1250 1'-11.250" 6'-5"  
(Mat'l (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam., I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: S 1 Type 1 Spot 1 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 or Full)) (Eff. (%)) (No. of Course)

8. Heads: (a) Mat'l SA-105 (Bld. Flg.) (b) Mat'l SA-516-70  
(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/ Pressure (Convex/Concave)
(a)	Top	150#	.125						32"	Flat
(b)	Btm	.328"	.125			2:1				Concave

If removable, bolts used (describe other fastenings) (20) 1 1/4 x 7" Lg SA-193-B7 Studs w/2 SA-194 2H nuts each  
(Mat'l Spec. No., Grade, Size, No.)

9. MAWP 207 psi at max temp. 200 °F  
(Internal) (external) (Internal) (external)

Min. design metal temp. 0 °F at 207 psi. Hydro. pneu., or comb. test press. 269 psi

Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk	Reinforcement Material	How Attached	Location
In/Outlet	2	8" 150#	RFWN	SA-105/SA-106 C	.500	Integral	UW-16.1(c)	Shell
Drain	2	1.5" 300#	RFLWN	SA-105/SA-106 B	.630	Integral	UW-16.1(c)	Shell/Btm Hd
Vent	1	1.5 300#	RFLWN	SA-105	.630	Integral	UW-16.1(c)	Top Bld
Steamout	1	2" 300#	RFLWN	SA-105/SA-106 B	.660	Integral	UW-16.1(c)	Shell
RV	1	3" 150#	RFLWN	SA-105/SA-106 B	.438	Integral	UW-16.1(c)	Shell

11. Supports: Skirt NO Lugs 4 Legs 4 Others Attached Wld to Shell/Btm Hd  
(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:  
(Name of part, item number, Mfg's name and identifying stamp)

Item #10 Continued on Attached Supplementary Sheet

**CERTIFICATE OF SHOP/FIELD 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. 20654

expires 11-1-09

Date 07-31-07 Co. Name Vernon MFG. Co. Signed Deon E. Boudil  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Vernon MFG. Co. at Tulsa, OK

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 OKLAHOMA and employed by SENECA INSURANCE COMPANY OF HOUSTON, TEXAS

have inspected the component described in this Manufacturer's Data Report on 7/31/07, 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 this 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 7/31/07 Signed [Signature] Commissions NB12997A OK937  
(Authorized Inspector) [Nat'l Board (incl endorsements) State, Prov. and No]

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

105801

1. Manufactured and certified by VERNON MFG. CO., 8375 S. 89TH W. AVENUE, TULSA, OKLAHOMA 74131-3614

(Name and address of Manufacturer)

2. Manufactured for SOUTHWEST FILTER, CO., P.O. BOX 580608-0608, TULSA, OK 74158-0608

(Name and address of Purchaser)

3. Location of Installation Giant Ind., Grafton, VA

(Name and address)

4. Type: Vertical

072130-3,-4

3251/3252

(Horiz., vert., or sphere)

(Tank separator, heat exch., etc)

(Mfg's serial No.)

D-10608

1118, 1119

2007

(CRN)

(Drawing No.)

(Nat'l. Bd. No.)

(Year built)

Data Report  
Item Number

Remarks

Item #10 Cont.:

Closure 1 24" RFWN SA-105 150# Integral UW-16.1(f) Shell

Certificate of Authorization: Type U No. 20654 Expires 11-9, 2009

Valid Date 07-31-07

Name

VERNON MFG. CO.

Signed

*Deamon E. Brindell*  
(Representative)

Valid Date 1/31/07

Name

*Ray R. Hight*  
(Authorized Inspector)

Commission

NB12997A OK939

(Nat'l Board incl. endorsement, state, province and no.)