

**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

(A) 523112

1. Manufactured and certified by **PENFABCO LTD** 5715 - 56 Avenue NW, Edmonton, Alberta, T6B 3G3  
 (Name and address of manufacturer)

2. Manufactured for **Peco Filters Limited** 1351 Hastings Crescent S.E. Calgary, Alberta T2G 4C8  
 (Name and address of purchaser)

3. Location of installation **Stock**

4. Type: **Vertical** PE 9008 R8367-2135 PE-8775BB-1 Rev. 0 N/A 2004  
 (Mfg's serial No.) (CRN) (Name and address) (Natl. 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 2001

to **2003** NA  
 Addenda (Date) Code Case Nos

6. Shell: SA-106-C SmIs 1/2" Nom. Thk (in) 1/8" Corr Allow (in) 7.625" Diam I.D. (ft. & in.) 103.12"  
 Matl. (Spec. No., Grade) Length (overall) (ft. & in.)

7. Seams: SMLS None R T (Spot or Full) 1150 H T Temp (F) 1 Hr. Type 1 Full  
 Long. (Welded, Dbl., Singl., Lap, Butt) R T (Spot, Partial, or Full)

8. Heads: (a) Matl. SA-105N (Spec. No., Grade) (b) Matl. SA-234 WPC (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) Top	0.4375"	1/8"	N/A	N/A	N/A	N/A	N/A	8 5/8" O.D.	Flat
(b) Bottom	0.4375"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings) 12 - 1 1/8" x 7 3/4" B7M / 2Hm (Matl., Spec. No., Gr., Size, No.)

9. MAWP: 1440 psi at max. temp. 130 psi at 1440 psi. Hydro., pneu., or comb. test pressure **Hydrostatic** 1872 psi.

Min. design metal temp. -20

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet, Outlet	2	3"	600# RWN Flg.	SA106B / SA105N	0.438"	Not Required	UW16.1(c)	Shell
L.L.C. Boot	1	4"	Flg	SA-106-B	0.531"	SA-516Gr. 70N	UW16.1(c)	Shell
L.L.C.'s	2	2"	CPLG	SA-105N	3000#	Not Required	UW16.1(c)	Shell
MDV's	2	1"	CPLG	SA-105N	6000#	Not Required	UW16.1(c)	Shell
Drain	1	1"	CPLG	SA-105N	6000#	Not Required	UW16.1(c)	Bottom Head
LG's	4	3/4"	CPLG	SA-105N	6000#	Not Required	UW16.1(c)	Shell
DPT's	2	1/2"	CPLG	SA-105N	6000#	Not Required	UW16.1(c)	Shell
Vent	1	1/2"	CPLG	SA-105N	6000#	Not Required	UW16.1(c)	Top Head

11. Supports: Skirt Yes, Lugs 0, Legs 0, Other None Attached **Welded To Btm Head**  
 (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: **N/A**

Impact Tests Not Required Per UG-20(f) 1-5 & UCS 66(a)

Volume: 2.83 cu. ft. (0.08 m3)

Vertical Filter Vessel Manufactured To Dwg. PE-9007-1 Rev. 0

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. 14,383 expires 12/28 2004  
 Date **Nov. 17, 2004** Co. name **PENFABCO LTD** (Manufacturer) Signed **M. B. B. (Representative)**

**CERTIFICATE OF SHOPFIELD INSPECTION**  
 Vessel constructed by **PENFABCO LTD** at **5715 - 56 Avenue N.W., Edmonton, Alberta, T6B 3G3**  
 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 **Alberta** have inspected and employed by **Alberta Boilers Safety Association** and state that, to the best of my knowledge and belief, the component described in this Manufacturer's Data Report on **Nov. 17, 2004** has been inspected 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 **Nov 17, 2004** Signed **A. B. B. (Authorized Inspector)** Commissions **AB 94**  
 (Natl. Board incl. endorsements State, Prov. and No.) (Platform 0130E01)