

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

F-8100

1. Manufactured and certified by **STREICHER Maschinenbau GmbH, Josef-Wallner-Str. 10, 94469 Deggendorf**
(Name and address of Manufacturer)
2. Manufactured for **Schenk Filterbau GmbH, 73550 Waldstetten**
(Name and address of Purchaser) **#93779**
3. Location of installation _____
(Name and address)
4. Type: **vertical** **filter** **159** **N/A** **M0-173** **8** **1994**
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year bu)
5. ASME Code, Section VIII, Div. 1 **Ed. 1992 Add. 92** **N/A** **No**
Edition and Addenda (date) Code Case No. Special Service per UG-120(d)

Items 6 - 11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of course(s): **ONE** (b) Overall length (ft & in.): **9.055"**

Course(s)			Material		Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	3'3.37"	9.055"	SA240 316L		0.24"	No	dbl/ Butt	None	70	sng/ Butt	None	70	None	-

(a) Heads: (a)										(b)									
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp										(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp									
Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A				Type	Full, Spot, None	E		
	Min.	Corr.	Crown	Knuckle					Convex	Concave									
(a)																			
(b)																			

If removable, bolts used (describe other fastening) _____

8. Type of jacket **Type 1** (Mat'l Spec. No., Grade, size, No.)
Jacket closure **upper + lower: Fig 9-5 (c)**
(Describe as ogee & weld, bar, etc.)

If bar, give dimensions **N/A**
9. MAWP **85** **14.5** psi at max. temp. **350** **350** °F Min. design metal temp. **32** °F at **85**
(internal) (external) (internal) (external)

10. Impact test **None, acc. UHA-51**

11. Hydro. test press. **128.3 psi** (Indicate yes or no and the component(s) impact tested)
Proof test **None**

Items 12 and 13 to be completed for tube sections. **N/A**

12. Tubesheet:
Stationary (Mat'l Spec. No.) Dia., in. (subject to press.) Nom. thk., in. Corr. Allow., in. Attachment (welded or bolt)
Floating (Mat'l Spec. No.) Dia., in. Nom. thk., in. Corr. Allow., in. Attachment

3. Tubes:
Mat'l Spec. No., Grade or Type O.D., in. Nom. thk., in. or gauge Number Type (Straight or U)

Items 14 - 18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): **ONE** (b) Overall length (ft & in.): **1'1.19"**

Course(s)			Material		Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	2'11.43"	1'1.19"	SA240 316L		0.315"	No	dbl/ Butt	None	70	sng/ Butt	None	70	None	-

(a) Heads: (a)										(b)									
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp										(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp									
Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A				Type	Full, Spot, None	E		
	Min.	Corr.	Crown	Knuckle					Convex	Concave									
(a) Top	0.315"	No	2'11.43"	3.54"	N/A	N/A	N/A	N/A	x	x	s	-	-	-					
(b) Bottom	0.393"	No	2'11.43"	3.54"	N/A	N/A	N/A	N/A	x	x	s	-	-	-					

If removable, bolts used (describe other fastening) **Clamp bolt M16x100, 20 pcs, B7**

(Mat'l Spec. No., Grade, Size, No.) NB

16. MAWP 85 14.5 psi at max. temp. 350 350 °F Min. design metal temp. 32 °F at 85
(internal) (external) (internal) (external)
17. Impact test None, acc. UHA-51
18. Hydro. ~~test press.~~ test press. 128.3 psi (Indicate yes or no and the component(s) impact tested)
Proof test None #93779

19. Nozzles, inspection, and safety valve openings:

Purpose (inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
see Form U-4 attached											

20. Supports: Skirt No Lugs - Legs 3 Others - Attached welded to saddle pl.
(Yes or No) (No.) (No.) (Describe) (Where and How)

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

(List the name of part, item number, mfg's. name and identifying number)

N/A

22. Remarks:

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. 26.989 Expires April 26, 19 96

Date 5/4/94 Name STREICHER Maschinenbau GmbH Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Virgin and employed by LR Insurance (Inc) of Delaware have inspected the pressure vessel described in this Manufacturer's Data Report on 5 April 19 94, 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 14/4/94 Signed [Signature] Commissions 10711 VA 641 "A"
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U Certificate of Authorization No. _____ Expires _____, 19 _____

Date _____ Name _____ Signed _____
(Assembler) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's 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 to the best of my knowledge and belief, the Manufacturer has constructed 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 of _____ psi. 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 _____ Signed _____ Commissions _____
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province 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

1. Manufactured and certified by STREICHER Maschinenbau GmbH, Josef-Mallner-Str. 10, 94469 Deggendorf
(name and address of manufacturer)

2. Manufactured for Schenk Filterbau GmbH, 73550 Waldstetten
(name and address of purchaser)

3. Location of installation _____
(name and address)

4. Type: vertical filter 159
(horiz., vert., or sphere) (tank, separator, heat exch., etc.) (mfg's serial no.)
N/A MO-173 8 1994
(CRN) (drawing no.) (Nat'l. Bd. no.) (year built)

#93779

Data Report
Item Number

Remarks

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material Nozzle Flange	Nozzle Thickness Nom. Corr.	Reinforcement Material	How Attached Nozzle Flange	Location (Insp. Oper)
TOP FEED	1	2"	wn	SA312 TP316L SA182 F316L	0,154"	-	None welded welded	-
BOTTOM FEED	1	2"	"	"	"	-	"	-
SLURRY RETURN		2"	"	"	"	-	"	-
VENT	1	2"	"	"	"	-	"	-
COMPRESSED AIR	1	1"	"	"	0,133"	-	"	-
PRESSURE CONNECTION	1	2"	"	"	0,154"	-	"	-
SPARE	1	2"	"	"	"	-	"	-
SIGHT GLASS	1	2"	block	SA182 F316L	1,65"	-	Integral	SHELLSIC
SAFETY VALVE	1	2"	wn	SA312 TP316L SA182 F316L	0,154"	-	None	TOPHEA
CAKE DISCHARGE	1	12"	loose type	SA240 316L SA240 316L	0,315"	-	"	-
STEAM INLET	1	1"	wn	SA312 TP316L SA182 F316L	0,133"	-	"	-
STEAM OUTLET	1	1"	"	"	"	-	"	-
PROPRIETARY	1	4,528"	block	SA182 F316L	1,378"	-	Integral	-
PROPRIETARY	1	7,48"	"	SA240 316L	1,969"	-	"	-

Certificate of Authorization: Type U No. 26.989 Expires April 26, 19 96

Date 5/4/94 Name STREICHER Maschinenbau GmbH Signed [Signature]
(manufacturer) (representative)

Date 14/4/94 Name [Signature] Commission NB 10711 VA 641 "A"
(Authorized Inspector) (Nat'l. Board incl. endorsement, state, province and