

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

74946

1. Manufactured and certified by Steel-Pro Incorporated, 660 Bear Main Street, Rockland, ME 04841
(Name and address of manufacturer)
2. Manufactured for DR M., Dr. Muller AG, P.O. Box CH-8708, Mannedorf, Switzerland
(Name and address of purchaser)
3. Location of installation Monsanto Chemical Co., 2100 East 223rd St., Carson, CA 90810
(Name and address)
4. Type Vert. Filter Vessel 6996 - T-0219 Rev.E 201 1990
(Horizontal or vertical tank) (Manufacturer's serial No.) (CRN) (Drawing) (Mat'l. Id. 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 1986
Year
- 1988 2053 -
Addenda (date) Code Case No. Special services per UG-120(d)

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

6. Shell: SA-516 GR 70 5/16" 1/16" 4'-8" O.D. 9'-6"
(Mat'l. Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft & in.)) (Length (Overall) (ft & in.))
7. Seams: Welded, Dbl. Butt Spot 85% -
(Long. (Dbl., Sngl.)) (R.T. (Spot or Full)) (ET, %) (H.T. Temp. (°F))
- Welded, Dbl. Butt Spot (See Remarks) 2
(Type) (Girth (Dbl., Sngl.)) (R.T. (Spot, Partial, or Full)) (No. of Courses)

8. Heads: (a) Mat'l. SA-516 GR 70 (Spec. No., Grade) (b) Mat'l. SA-516 GR 70 (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	5/16"	1/16"	56"	3-3/4"	-	-	-	-	Concave
(b)	Bottom	5/16"	1/16"	-	-	-	60°	-	-	Concave

If removable, bolts used (describe other fastenings) Top Head: (40) 1"-8x6-3/4" FT Studs, SA-193 B7
(Mat'l. Spec. No., Gr., Size, No.)

9. Type of Jacket - Proof Test -
10. Jacket Closure - If bar, give dimensions - If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)
11. MAWP 75 psi at max. temp. 350 °F. Min. design metal temp. -20 °F at 350 psi.
Hydro., pneu., or comb. test press. 113 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: - Stationary Mat'l. (Spec. No., Gr.) - Diam. (in.) (Subject to pressure) - Nom. Thk. (in.) - Corr. Allow. (in.) - Attach. (Welded, Bolted)
- Floating Mat'l. (Spec. No., Gr.) - Diam. (in.) - Nom. Thk. (in.) - Corr. Allow. (in.) - Attach.

13. Tubes: - Mat'l. (Spec. No., Gr.) - O.D. (in.) - Nom. Thk. (in. or Gauge) - Number - Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: - Mat'l. (Spec. No., Grade) - Nom. Thk. (in.) - Corr. Allow. (in.) - Diam. I.D. (ft & in.) - Length (Overall) (ft & in.)
15. Seams: - Long. (Dbl., Sngl.) - R.T. (Spot or Full) - ET, % - H.T. Temp. (°F)
- Type - Girth (Dbl., Sngl.) - R.T. (Spot, Partial, or Full) - No. of Courses

16. Heads: (a) Mat'l. - (Spec. No., Grade) (b) Mat'l. - (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)										
(b)										

If removable, bolts used (describe other fastenings) -
(Mat'l. Spec. No., Gr., Size, No.)

17. MAWP - psi at max. temp. - °F. Min. design metal temp. - °F at - psi.
Hydro., pneu., or comb. test press. - psi.

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EINCO Fluid Process International

USER : MONSANTO CHEMICAL COMPANY
LOCATION : CARSON, CALIFORNIA
JOB NO. : 271E-3147
PAGE NO. : 26

TECHNICAL DATA

CANDLE FILTER

Performance

Design flow per unit	45	USgpm/unit
Maximum flow per unit	110	USgpm/unit
Length of run at average flow	3	Hours
Active filter area	516	ft ²
Cake volume (max.)	36	ft ³
Filling volume	1384	USgall.

Candles

Number per column	74	
Number of registers	10	
Materials of construction	316 Str Stl	
Candle length	98	inches
Candle diameter	3.23	inches
Filter cloth material	Teflon	
Filter cloth opening	10	micron

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TECHNICAL DATA

Pressure Vessels

Diameter of units	55"	
Straight side	158"	
Design pressure	75	psig
Test pressure	112	psig
ASME code	yes	
Registration	TBA	
Corrosion allowance	1/16	
Materials of construction	SA516 gr 70	
Head	Torospherical, flanged	
Finish - External	TBA	
Weight (empty)	3767	lbs

Unit Pipework

Materials of construction	Carbon steel
Lining	None
Sizes	2"-4"

Valves

Type	Ball
Manufacturer	Jamesbury
Model	5550-31-2236TT
Actuator	Jamesbury 60S type
Air pressure	80 psi
Proximity switches	9044 Westlock Beacon

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FUNDABAC®FILTER

ASSEMBLY DRAWING

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