

1. Manufactured and certified by H. A. Phillips & Co., 770 Enterprise Avenue, DeKalb, Illinois, 60115, USA  
(Name and address of Manufacturer)

2. Manufactured for PARAGON ENGINEERED PRODUCTS, 12125 STATE ROUTE CC, FESTUS, Missouri, 63028, USA  
(Name and address of Purchaser)

3. Location of Installation Not Known  
(Name and address)

4. Type VERTICAL 2181335-04 N/A 24227(B) 17961 2021  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 2019/ N/A N/A N/A  
[Edition and Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell: SA-516-70 .625 in .0625 in 5' (OD) 10'  
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)]

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: 1 RT-4 85% N/A N/A 2 N/A 65% 1  
[Long. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (No. of courses)

8. Heads: (a) Material SA-516 Gr. 70 Normalized (b) Material SA-516 Gr. 70 Normalized  
(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)	TOP	0.5625	.0625	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	BOTTOM	0.5625	.0625	N/A	N/A	2:1	N/A	N/A	N/A	Concave

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9. MAWP 250 psi 15 psi at max. temp. 450 °F 450 °F  
(Internal) (External) (Internal) (External)

Min. design metal temp. -20 °F at 250 psi Hydro, pneu., or comb. test pressure HYDRO at 375 psi

Proof test N/A

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
<b>COLUMN CONNECTION</b>	<b>2</b>	<b>1-1/4</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/80</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>Shell</b>
<b>LIQUID IN</b>	<b>1</b>	<b>4</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/40</b>	<b>N/A</b>	<b>SA-516-70</b>	<b>Welded</b>	<b>N/A</b>	<b>HEAD</b>
<b>DRAIN</b>	<b>1</b>	<b>1</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/80</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>HEAD</b>
<b>LIQUID OUT</b>	<b>1</b>	<b>2-1/2</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/40</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>Shell</b>
<b>LIOC</b>	<b>1</b>	<b>2</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/80</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>Shell</b>
<b>EQUAL</b>	<b>1</b>	<b>2-1/2</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/40</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>HEAD</b>
<b>PURGE</b>	<b>1</b>	<b>3/4</b>	<b>Pipe</b>	<b>SA-106 Gr. B</b>	<b>N/A</b>	<b>S/80</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>HEAD</b>
<b>RELIEF</b>	<b>1</b>	<b>3/4</b>	<b>CPLG</b>	<b>SA-105</b>	<b>N/A</b>	<b>3000#</b>	<b>N/A</b>		<b>Welded</b>	<b>N/A</b>	<b>HEAD</b>

Additional Nozzles - See Attached U-4...

11. Supports: Skirt N/A Lugs 2 Legs 4 Other N/A Attached Welded---HEAD/SHELL  
(Yes or no) (Number) (Number) (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  
(Name of part, item number, Manufacturer's name and identifying stamp)

For use with Refrigerant/Oil. For noncorrosive service. Nozzle closures to be removed. UG-20(f), UCS-66(b). Relief device to be installed by other than H.A. Phillips & Co. SECONDARY MDMT: -60°F @ 87.5 P.S.I.

Manufactured by	H. A. Phillips & Co., 770 Enterprise Avenue, DeKalb, Illinois, 60115, USA		
Manufacturer's Serial No.	2181335-04	CRN	N/A
		National Board No.	17961

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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 13303

expires April 15, 2024

Date 06/01/2021

Co. name

H. A. Phillips & Co.

(Manufacturer)

Signed

*Brian Wega*  
(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by H. A. Phillips & Co. at 770 Enterprise Avenue, DeKalb, Illinois, 60115, USA

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by OneCIS Insurance Company, of Lynn, MA

have inspected the component described in this Manufacturer's Data Report on June 2, 2021, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 06/02/2021

Signed

*Tade Okl*  
(Authorized Inspector)

Commissions

16634

(National Board Authorized Inspector Commission number)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

2181335-04  
 Job/Sales Order #  
 10999  
 Purchase Order #

1. Manufactured and certified by H. A. Phillips & Co., 770 Enterprise Avenue, DeKalb, Illinois, 60115, USA  
(Name and address of Manufacturer)

2. Manufactured for PARAGON ENGINEERED PRODUCTS, 12125 STATE ROUTE CC, FESTUS, Missouri, 63028, USA  
(Name and address of Purchaser)

3. Location of installation Not Known  
(Name and address)

4. Type VERTICAL N/A 2181335-04  
(Horizontal, vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturer's serial number)

N/A 24227(B) 17961 2021  
(CRN) (Drawing number) (National Board number) (Year built)

Data Report  
 Item Number Remarks

Additional nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
OIL POT RELIEF/VENT	2	3/4	Pipe	SA-106 Gr. B	N/A	S/80	N/A		Welded	N/A	HEAD

Certificate of Authorization: Type "U" No. 13303 Expires April 15, 2024

Date 06/01/2021 Name H. A. Phillips & Co. Signed Brian Wega  
(Manufacturer) (Representative)

Date 06/02/2021 Signed Tade Okd Commissions 16634  
(Authorized Inspector) (National Board Authorized Inspector Commission number)