

1. Manufactured and certified by **Stainless Process Systems, 1650 Beacon Place, Oxnard, California, 93033**
(Name and address of Manufacturer)

2. Manufactured for **Astra, 1900 Skyhawk Street, Alameda, California, 94501**
(Name and address of Purchaser)

3. Location of Installation **Astra, 1900 Skyhawk Street, Alameda, California, 94501**
(Name and address)

4. Type **Vertical** **22-047A-01** **N/A** **22-047A** **2281** **2022**
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 **2021/ N/A** **N/A** **N/A**
[Edition and Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell: **SA-240/304L** **.500 in** **0 in** **6' (OD)** **13'**
(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: **Type 1** **Spot** **85%** **0 °F** **0** **Type 1** **Full** **100%** **2**
[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) **SA-240 /304L** (b) **SA-240 /304L**
(Material spec. number, grade or type) (H.T. - time and temp.) (Material spec. number, grade or type) (H.T. - time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Top End	.421"	0	N/A	N/A	2:1	N/A	N/A	N/A		X	N/A	N/A	N/A
(b)	Bottom End	.423"	0	N/A	N/A	2:1	N/A	N/A	N/A		X	N/A	N/A	N/A

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

9. MAWP **200 psi** **0 psi** at max. temp. **150 °F** **0 °F**
(Internal) (External) (Internal) (External)

Min. design metal temp. **-320 °F** at **200 psi** . Hydro, pneu., or comb. test pressure **HYDRO at 260 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	
Thermocouple	4	1"	Pipe	SA-312/304	N/A	.133	0		UW-16.1(e)	N/A	Shell
Thermocouple	4	3/4"	HC	SA-182/304	N/A	3000#	0		UW-16.1(z-1)	N/A	Shell
Inlet/Drain	2	18"	RFSO	SA-312/304	SA-182/304	300#	0	SA-240/304	UW-16.1(h)	UW-21	Heads

11. Supports: Skirt **No** Lugs **2** Legs **4** Other **N/A** Attached **Heads/Welded**
(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)

3/4" 3000# SA-182/304 Couplings welded to the end of the 1" x .133 wall Nozzles for threadability of attachment components.
1/4" Vortex Breaker Welded to Bottom Head 18" Nozzle.
Insulation Ring Welded to bottom Head.
Impact Test Exemption Per UHA-51
Safety Device provided By Others per UG-125.

Manufactured by **Stainless Process Systems, 1650 Beacon Place, Oxnard, California, 93033**Manufacturer's Serial No. **22-047A-01**CRN **N/A**National Board No. **2281****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 **25006**

expires **August 6, 2023**Date **06/24/2022**

Co. name

Stainless Process Systems

(Manufacturer)

Signed


(Representative)**CERTIFICATE OF SHOP/FIELD INSPECTION**Vessel constructed by **Stainless Process Systems** at **1650 Beacon Place, Oxnard, California, 93033**

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

The Hartford Steam Boiler Inspection and Insurance Company, of Hartford, CThave inspected the component described in this Manufacturer's Data Report on June 24, 2022,

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 **06/24/2022**

Signed


(Authorized Inspector)

Commissions

13580, CA2192

(National Board Authorized Inspector Commission number)