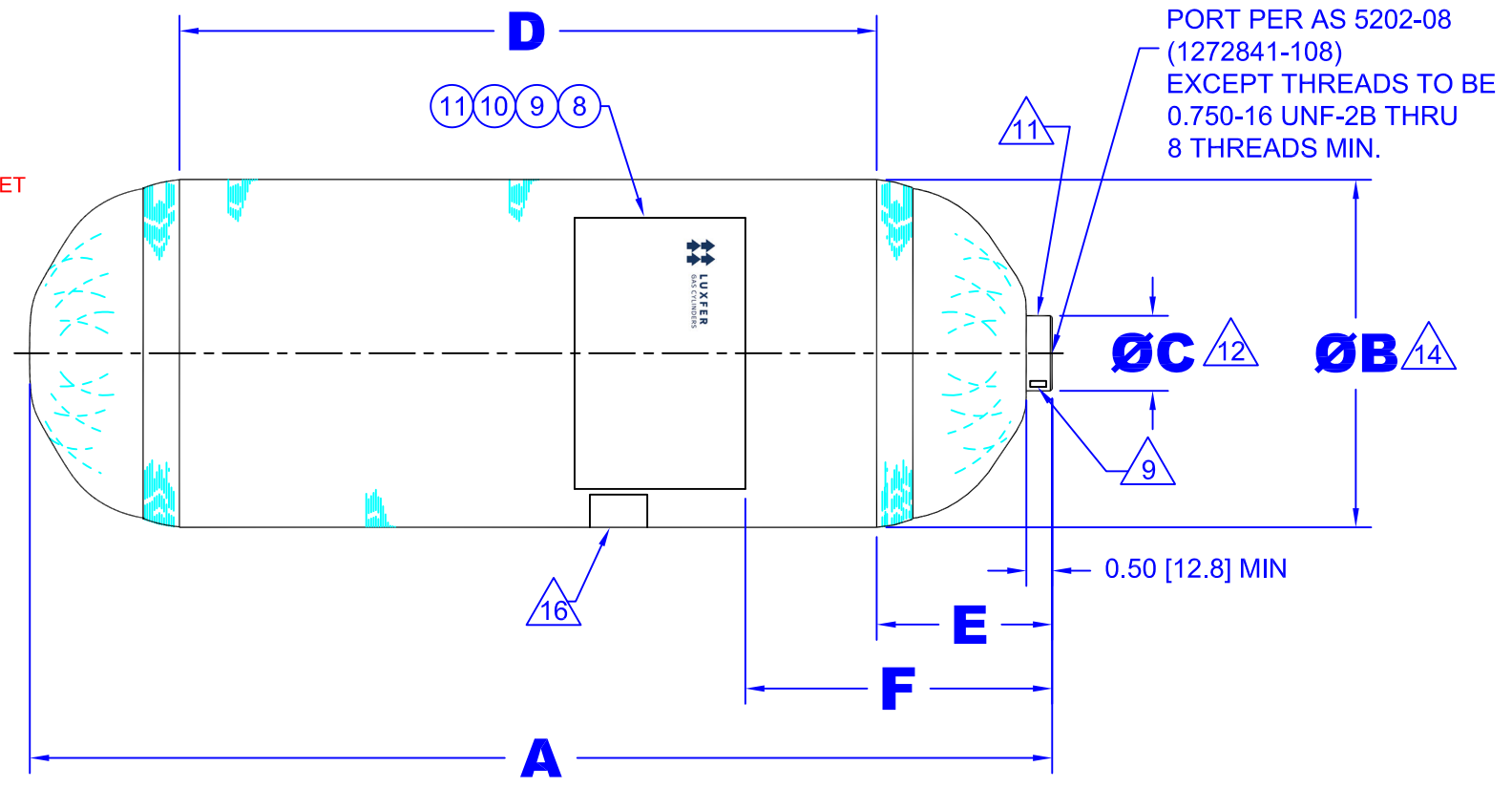


**NOTES:**

1. WHEN THIS PRESSURE VESSEL IS USED IN INTERSTATE COMMERCE AS DEFINED BY THE DOT, ALL PROVISIONS OF DOT-SP 8162 APPLY
2. MANUFACTURE, ACCEPTANCE TESTS AND QUALIFICATION TESTS SHALL BE IN ACCORDANCE WITH EXEMPTIONS DOT-SP 8162. CERTIFIED INSPECTION AND TEST DATA REQUIRED IN COMPLIANCE WITH EXEMPTION DOT-SP 8162
3. OPERATIONAL REQUIREMENTS:
  - A. INTERNAL VOLUME: SEE DATA BLOCK.
  - B. GAS CAPACITY: SEE DATA BLOCK.
  - C. WEIGHT: SEE DATA BLOCK.
  - D. WORKING FLUID: OXYGEN.
  - E. WORKING PRESSURE: 1,850 PSIG (127 BAR).
  - F. SERVICE LIFE: 15 YEARS.
  - G. OPERATING CYCLES: 10,000 FILL AND DEPLETION CYCLES, 0 TO 1,850 TO 0 PSIG.
  - H. OPERATING TEMPERATURE RANGE: -67°F TO +170°F, (-55°C TO +77°C).
  - I. HUMIDITY, AMBIENT: 0 TO 100% RELATIVE HUMIDITY.
  - J. EXTERIOR CONTAMINANTS: EXPOSURE TO POLYESTER HYDRAULIC FLUIDS, CLEANING SOLVENTS, JET FUEL, FRESH WATER AND SEAWATER.
4. IN ADDITION TO THE OPERATIONAL REQUIREMENTS, THIS VESSEL SHALL BE DESIGNED AND FABRICATED TO MEET THE FOLLOWING TEST REQUIREMENTS:
  - A. PROOF PRESSURE: 3,083 PSI (213 BAR).
  - B. BURST PRESSURE: 5,550 PSI (383 BAR) MINIMUM AT AMBIENT TEMPERATURE
5. PRESSURE VESSEL SHALL BE FREE OF ALL INTERNAL SURFACE CONTAMINANTS AND OTHER FOREIGN MATTER. BURRS AND SHARP EDGES SHALL BE REMOVED.
6. EXTERIOR SURFACES TO BE COATED WITH POLYURETHANE COATING PER SCI SPECIFICATION 81-247. COLOR TO BE GREEN NO. 14187 PER FED-STD-595.
7. ACCEPTANCE TESTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING:
  - A. EXAMINATION OF THE PRODUCT (CAPACITY, WEIGHT, BOSS THREAD CHECK).
  - B. PROOF PRESSURE CHECK.
8. FOR OXYGEN SERVICE, PRIOR TO FILLING THE CYLINDER SHALL MEET THE REQUIREMENTS FOR EXCESS HYDROCARBON PER RR-C-901. FOR CUSTOMER INFORMATION ONLY.
9. RETEST DATE AND SYMBOL TO BE STAMPED IN THIS AREA. DO NOT STAMP COMPOSITE STRUCTURE.
10. THIS HIGH PRESSURE CYLINDER REQUIRES PERIODIC INSPECTION AND TESTING IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION EXEMPTIONS.
11. OUTSIDE CONTOUR OF LINER NECK WILL DEVIATE AS SHOWN ONLY ON ALT 280 PRESSURE VESSEL
12. "C" DIA. APPLIES ONLY TO THE FIRST .200 NECK LENGTH OF ALT 280.
13. WATER CAPACITIES ARE MINIMUM VALUES.
14. VERIFY OUTSIDE DIAMETER BY MEASURING CIRCUMFERENTIALLY.
15. CYLINDERS SHALL BE MANUFACTURED AND MAINTAINED IN ACCORDANCE WITH PERMIT NO. TC-SU 9209.
16. PRIOR TO RETEST CYLINDER, RETEST LABEL SHALL APPLY IN THIS AREA.

REVISIONS (CAD CONTROLLED DO NOT MANUALLY REVISE)				
LTR	DCN	DESCRIPTION	DATE	APPROVED
AM	8377A	UPDATE DWG. TO REMOVE RETEST LABEL.	10-28-21	TN



DATA TABLE											
SCI MODEL NO.	PART DASH NO.	A±0.2	ØB±0.1	ØC±0.06	DIM. D	DIM. E	DIM. F	CAPACITY		WEIGHT LBS.	QTR
								WATER CU. IN.	OXYGEN SCF		
ALT 280	-1	19.6 (497.8 MM)	5.1 (129.5 MM)	1.28 (32.5 MM)	N/A	N/A	6.00±0.30	295 (4.8 LITER)	22.8	3.3 - 4.0 (1.5 - 1.8 Kg.)	89-811
ALT 279	-2	24.8 (629.9 MM)	6.7 (170.2 MM)	1.25 (31.8 MM)	17.95 ± 0.25	3.75 ± 0.30	6.00±0.30	650 (10.7 LITER)	50.1	6.7 - 7.9 (3.04 - 3.58 Kg.)	88-785
ALT 281	-3	29.4 (746.8 MM)	7.5 (190.5 MM)	1.30 (31.8 MM)	N/A	N/A	6.10±0.10	1000 (16.4 LITER)	77.1	10.8 - 11.8 (4.90 - 5.35 Kg.)	88-772
ALT 282	-4	31.3 (795.0 MM)	9.0 (228.6 MM)	1.40 (35.7 MM)	N/A	N/A	6.00±0.30	1500 (24.6 LITER)	115.7	15.9 - 17.9 (7.2 - 8.1 Kg.)	88-768

1				EA	316677	1271353-1	LABEL - GENERIC		11
	1			EA	316676	1271352-1	LABEL - GENERIC		10
		1		EA	316674	1271350-1	LABEL - GENERIC		9
			1	EA	316675	1271351-1	LABEL - GENERIC		8
AR	AR	AR	AR	LB	312736	1272056-1	LABEL OVERWRAP	GLASS	7
AR	AR	AR	AR	FL.OZ	417169	1270865-107	COATING, EXTERIOR	GREEN NO. 14187 PER FED-STD-595	6
AR	AR	AR	AR	FL.OZ	417720	417720	PRIMER	FLAT BEIGE 3260-L1338	5
1				EA	313219	1270151-1	CYLINDER, CURED		4
	1			EA	313190	1270147-1	CYLINDER, CURED		3
		1		EA	313186	1270139-1	CYLINDER, CURED		2
			1	EA	313189	1270143-1	CYLINDER, CURED		1
-4	-3	-2	-1	U/M	JDE PART NO.	SCI DWG. NO.	DESCRIPTION	MATERIAL/SPECIFICATION	ITEM NO.

312802	-4	1	1	FINAL	ALT 282
312801	-3	1	1	FINAL	ALT 281
312800	-2	1	1	FINAL	ALT 279
312799	-1	1	1	FINAL	ALT 280
SAP PART NO.	PART DASH NO.	NEXT QTY. REQD PER ASSY.	FINAL	NEXT ASSY.	USED ON
APPLICATION					
DRAWING LEVEL					

APPROVALS			DATE
DRAWN	CUONG LE		03-17-99
CHECK	R. ALMAGRO		07-30-99
ENGRG.	M. TRUDGEON		08-02-99
MFG.	B. COGLEY		08-02-99
Q.A.	R. NOLTE		08-02-99

**ENVELOPE DRAWING**  
**WOUND PRESSURE VESSEL**  
**SCI MODEL ALT 279, 280, 281, 282**

CAGE CODE	DWG. NO.
<b>58943</b>	<b>1270152</b>
SCALE: NONE	REL. DATE: 03-23-99
	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES DIMENSIONS IN [ ] ARE IN MILLIMETER TOLERANCE ON DECIMALS .XX± 0.03 .XXX± 0.010

DO NOT SCALE DRAWING