



Taylor-Wharton

Equipping The Hydrogen Infrastructure

LSN-450

The LSN-450 Horizontal liquid cylinder is specifically designed for transport / distribution of liquefied oxygen or nitrogen. The unit is vacuum insulated, rugged and sized for maximum payload in standard van configurations.

Oxygen service models provide internal baffles and a Full-Trycock valve for medical oxygen distribution applications; several additional models serve nitrogen distribution needs and do not contain these features.

All LSN-450 feature easy-to-use controls on one end of the unit, protected by a stainless-steel halo ring. A differential pressure gauge provides constant contents indication that is easy to read. In-line relief devices allow simple plumbing to the outside in vehicle applications.

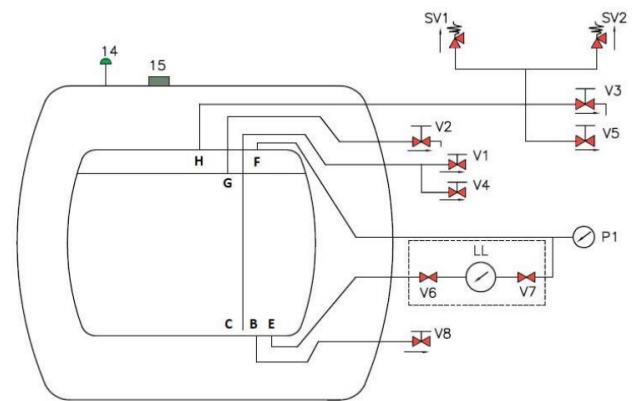
The LSN-450 may be configured for either 110 psig or 50 psig service to meet your final saturation pressure needs.



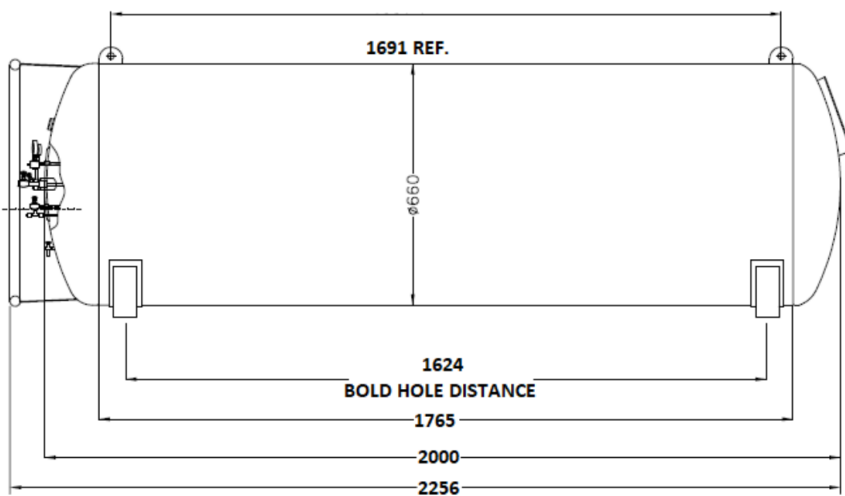
Specifications

Service Type		Oxygen	Nitrogen
Diameter	in (cm)	26 (66)	26 (66)
Height	in (cm)	27.75 (70)	27.75 (70)
Length, overall	in (cm)	89 (226)	89 (226)
Weight, empty	lb. (kg) Nominal	520 (236)	516 (232)
Weight, full	lb. (kg) Nominal	1246 (2771)	1246 (2771)
Capacity -Liquid, Max. Usable	gallons (liter)	107 (405)	107 (405)
Weight of Contents -Full Capacity	lb. (kg) (110 psig relief valve)	886 (402)	730 (331)
Gaseous Weight of Contents -Oxygen (NTP)	cu. ft.	10,700	N/A
Normal Evaporation Rate	% Contents/Day	2%	3%
Design Specification Rated (DOT) Service		DOT 4L	DOT 4L
Pressure	psig (kPa)	115 (739)	115 (739)
Safety Devices -Pressure Relief Valve	psig (kPa)	110 or 50 (759) or (345)	110 or 22 (759) or (152)
Inner Container Frangible, disc rating	psig (kPa)	200 (1380)	200 (1380)
Outer Jacket Bursting, disc rating	psig (kPa)	18 (124)	18 (124)
Line Connections -Liquid, Fill and Vent Value -Full-trycock		-CGA 440 -3/8" tube	-CGA 295 (vent 3/4 NPT) -N/A

PIPING SCHEMATIC



Tag Number	Description
V1	Liquid Withdrawal Line
V2	Full Trycock Valve
V3	Vent Valve
V4	Pressure Building Inlet Valve
V5	Pressure Building Outlet Valve
V6 & V7	Gas Isolation Valve
V8	Liquid Fill Valve
SV1	Safety Valve
SV2	Safety Valve
LL	Level Gauge
P1	Pressure Gauge
14	Vacuum Bursting Disc
15	Evacuation Connection
B	Liquid Fill Line
C	Liquid Withdrawal Line
E	Liquid Instrument Line
F	Gas Instrument Line
G	Full-Trycock Line
H	Safety Line



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