

# Liquid Helium Research Dewars



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Cryo Industries Liquid Helium Research Dewars are finely designed and manufactured using the highest quality materials. A Liquid Helium reservoir dewar with surrounding liquid nitrogen shield and variable temperature insert defines the most popular research dewar. The sample is fast change, top loading and can be manipulated while operating.

CIA's LHe research dewars are characterized by a large direct opening to liquid helium. Superconducting magnets and other large inserts are introduced into liquid helium from the top. Inserts are usually supported and sealed by the dewar's top flange. An optical or non-optical tail can be easily integrated into the dewar through a demountable bottom flange.



The LHe research dewars are available in either **liquid nitrogen shielded** or **vapor shielded** styles, and can be manufactured from:

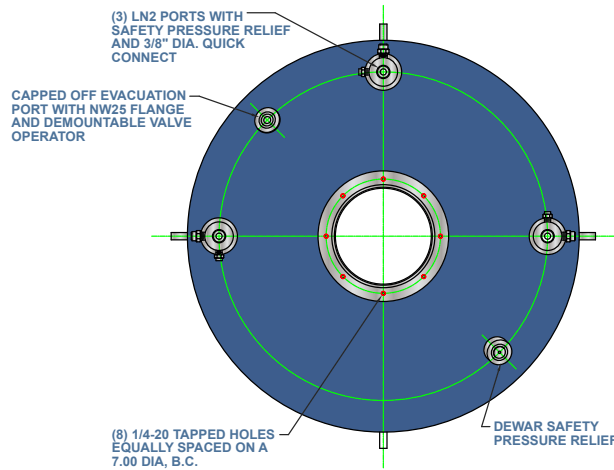
**Stainless Steel:** All welded construction, very rugged and highly polished for great looks.

**Aluminum Fiberglass:** Vapor shielded aluminum fiberglass is the most popular style for bucket dewars. This style dewar fills fastest and requires no liquid nitrogen maintenance. 'Belly' options are available to increase the liquid helium volume. The epoxy fiberglass necks have helium gas diffusion barriers. The highest efficiency is obtained by a combination of 'hard' shields and multiple 'soft' shields, located in the insulating vacuum space.

**Fiberglass:** Constructed from all G-10 (Epoxy Fiberglass), this liquid helium dewar design uses no metal or metal vapor barriers.

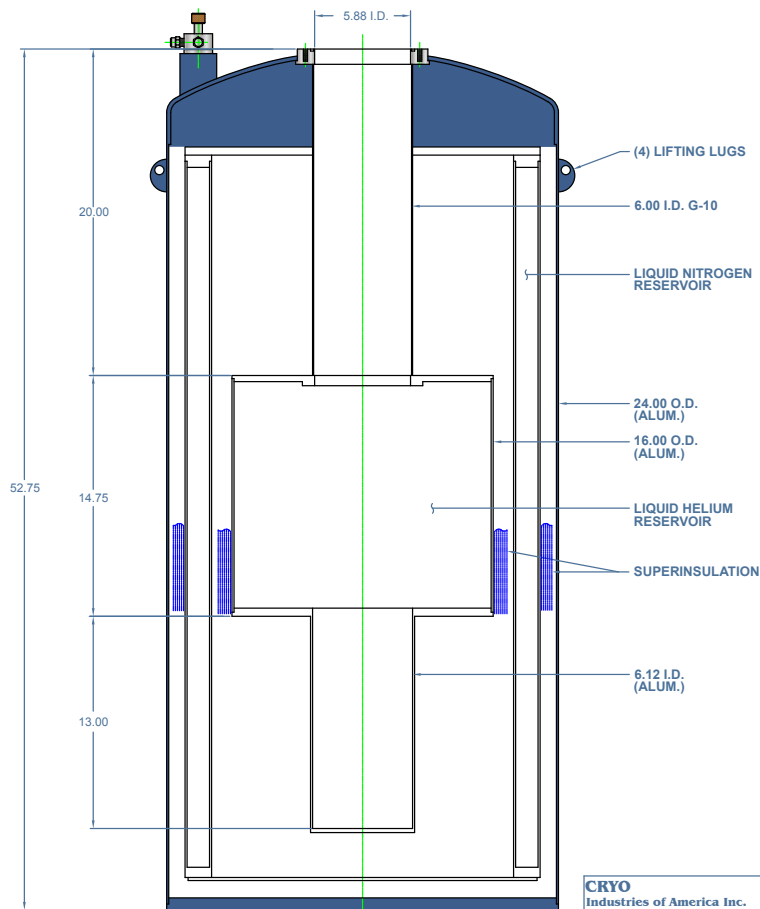
**Cryo** has a team of engineers and physicists who will work with you to create a liquid helium research dewar that meets your specific research needs.

# LN<sub>2</sub> Shielded Aluminum & G-10 LHe Dewar



**TOP VIEW**

Aluminum - Epoxy  
Fiberglass (G-10) Dewars  
are available in any  
combination of neck  
diameters, liquid helium  
volumes, tail &/or  
dewar lengths!



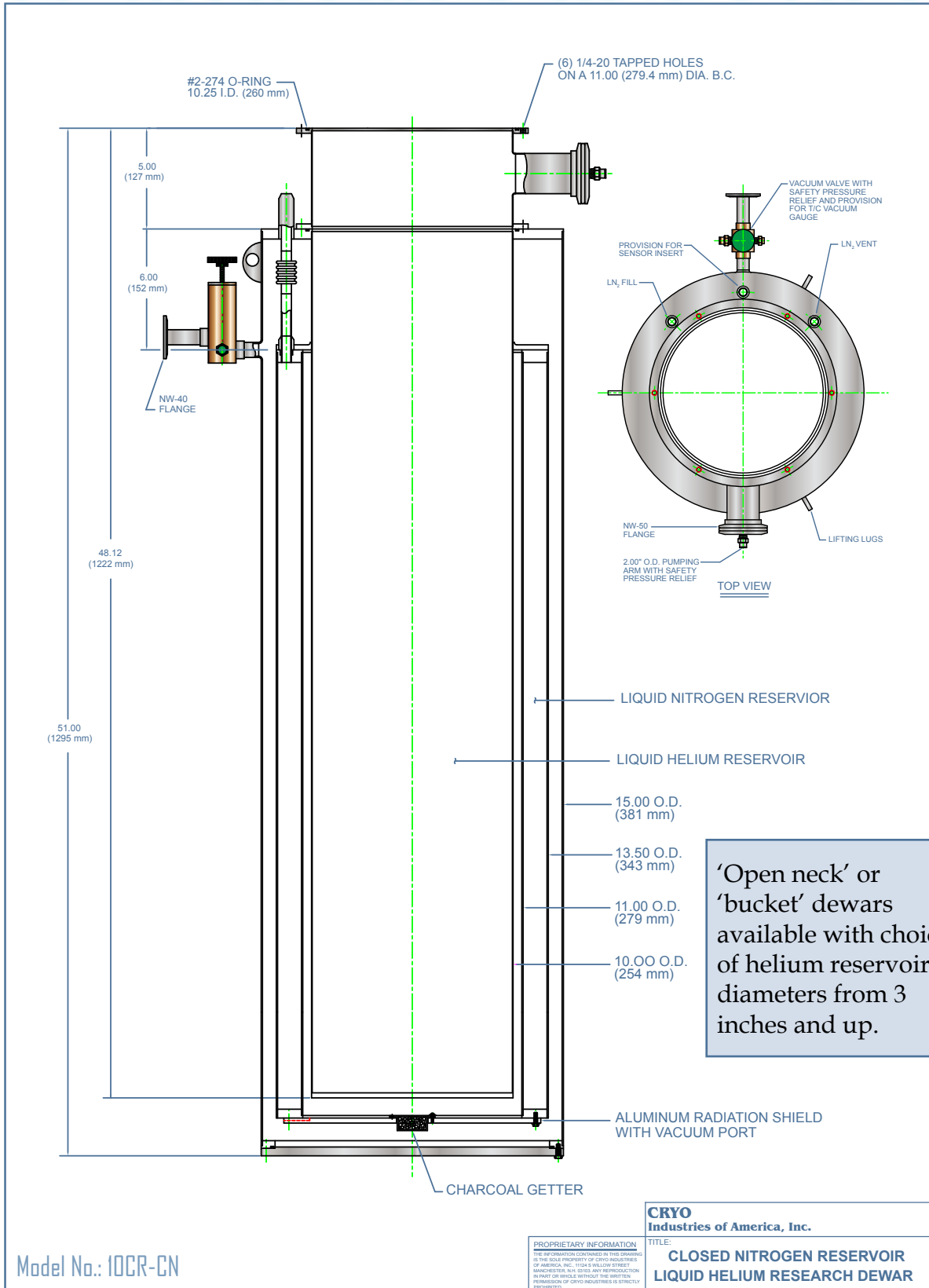
Model No.: AFD-2420-NSB

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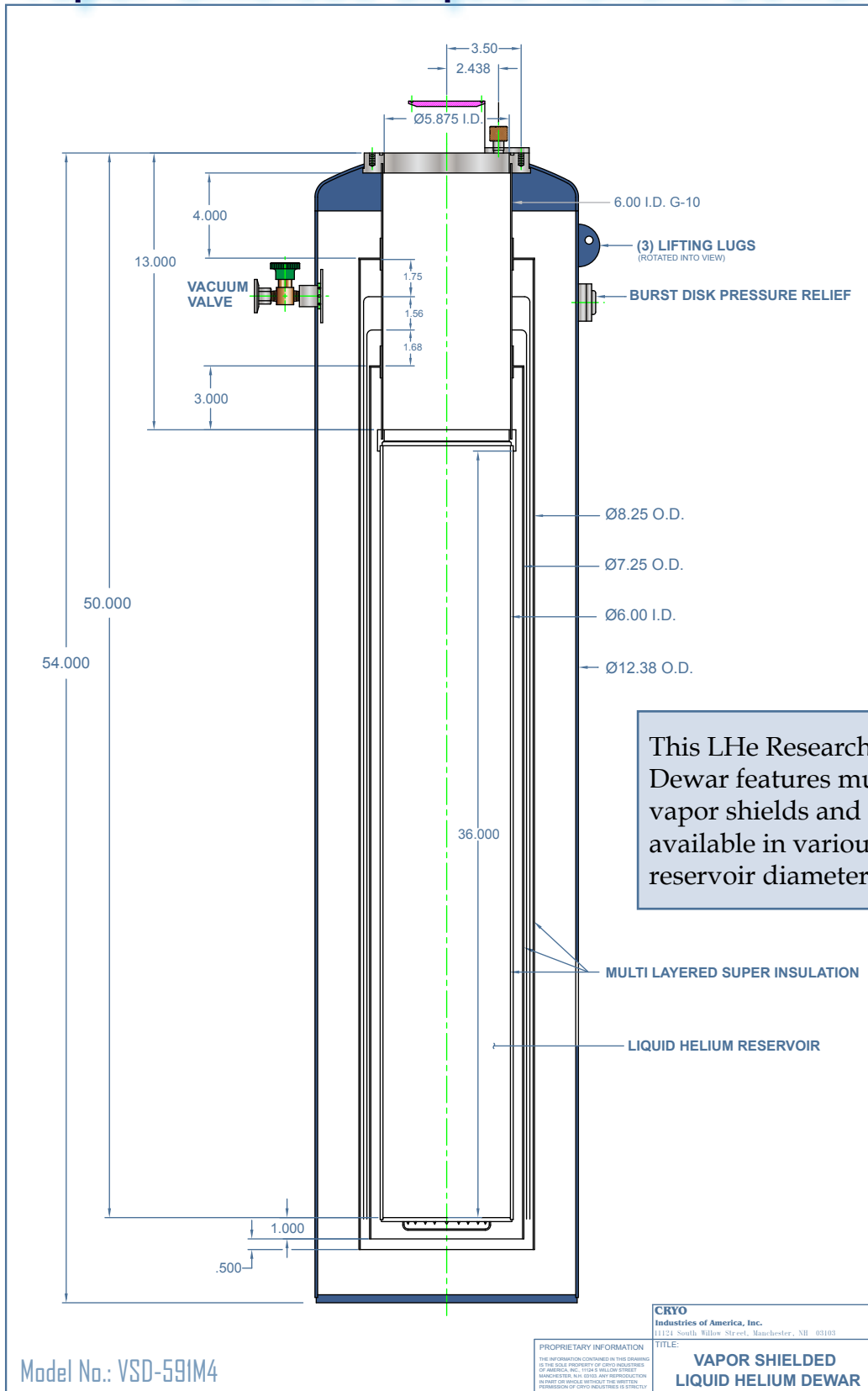
TITLE:  
**LIQUID NITROGEN SHIELDED  
ALUMINUM AND G-10 LHe DEWAR**

# Stainless Steel Closed N<sub>2</sub> Reservoir LHe Dewar



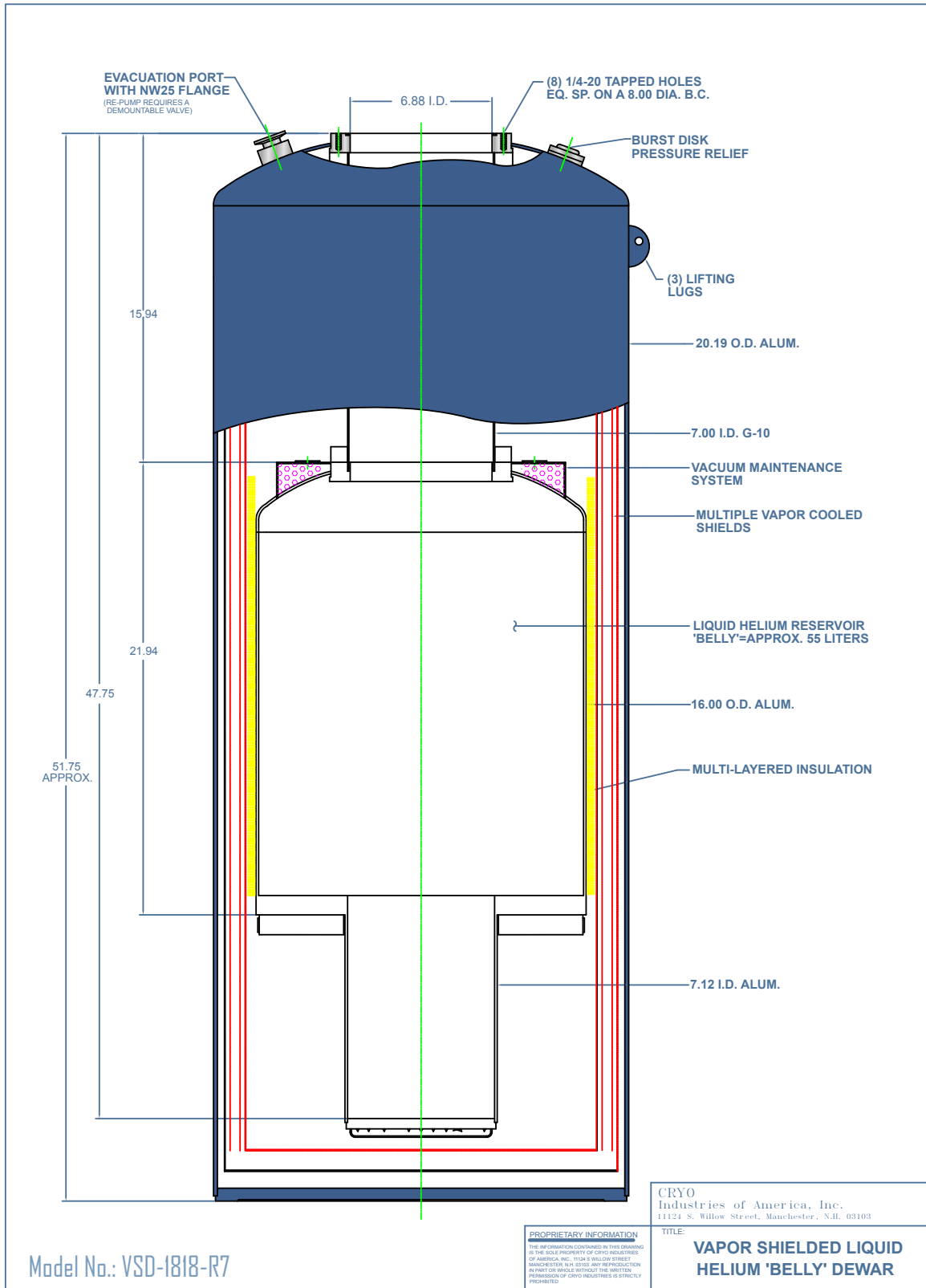
'Open neck' or 'bucket' dewars available with choice of helium reservoir diameters from 3 inches and up.

# Vapor Shielded Liquid Helium Dewar



This LHe Research Dewar features multiple vapor shields and is available in various LHe reservoir diameters!

# Vapor Shielded Liquid Helium 'Belly' Dewar



# All Fiberglass (G-10) LHe Dewar

