

Technical Specification for 200 Ltr. Nitrogen Tanks

Welded Insulation Cylinder (Cryogenic Liquid Cylinder)

Welded Insulation Cylinder is a high-tech developed presented in recent years, which contains year after year efforts of the company. In its manufacturing workshop, an advanced leakage-hunting technology of helium mass spectrum and a series of special equipment, such as supper vacuum system, welding machine and packing machine are employed. In addition, as adopted unique and advanced heat insulation technology, formed reliable and reasonable structure, guaranteed by strict quality system, and applied 1st class imported valve, the Cylinder leads the domestic advanced lever either in appearance or in technical properties, and first pass the domestic product appraisal.

Welded Insulation Cylinder can be used in storing, transporting and making use of liquefied gas (i.e. liquefied Oxygen liquefied Argon or liquefied Nitrogen) with its properties of supper vacuum and heat insulation of multiple layers. It is made of stainless inner layer and out layer, heat insulation layer of supper vacuum and safe valve and tube systems.

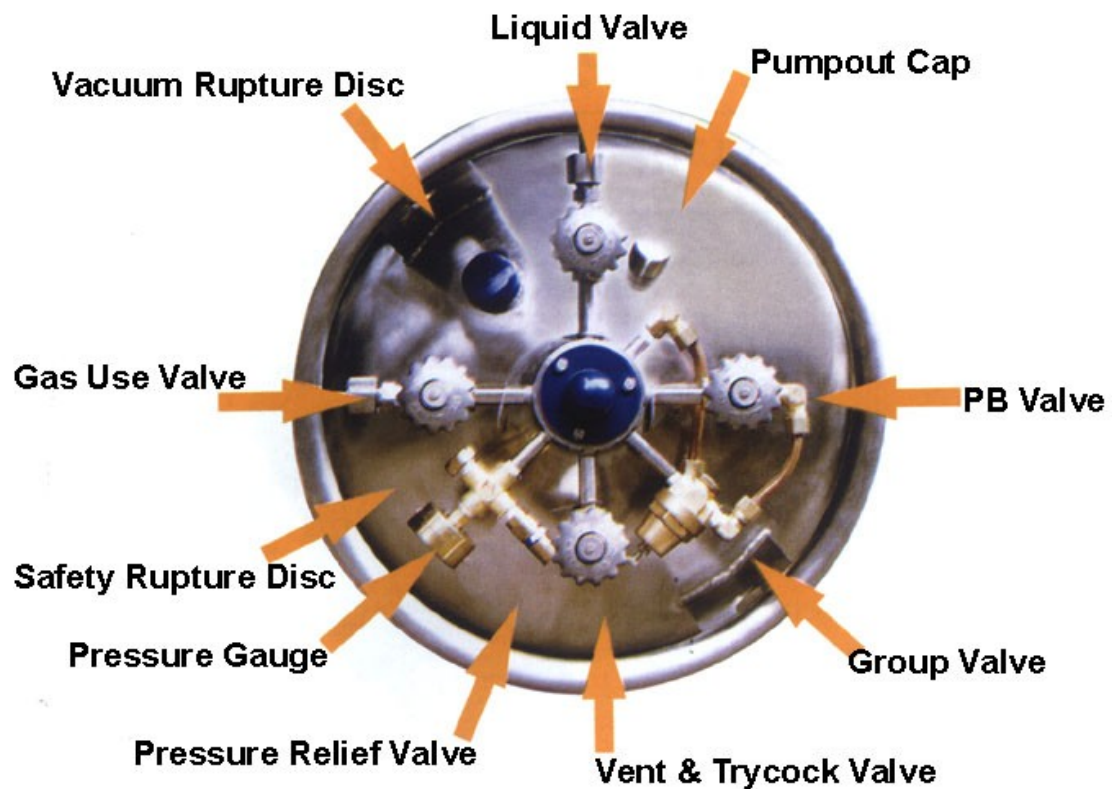
Welded Insulation Cylinder can replace most presently used seamless steel cylinders, which will bring its users a new gas using phase of high purity and low cost, and will also improve industrial development and people's life. It can be widely used in the national economic fields of machinery, ship-making, hospital, chemical industry, electronic, biology, pharmaceutical, foodstuff, materials,



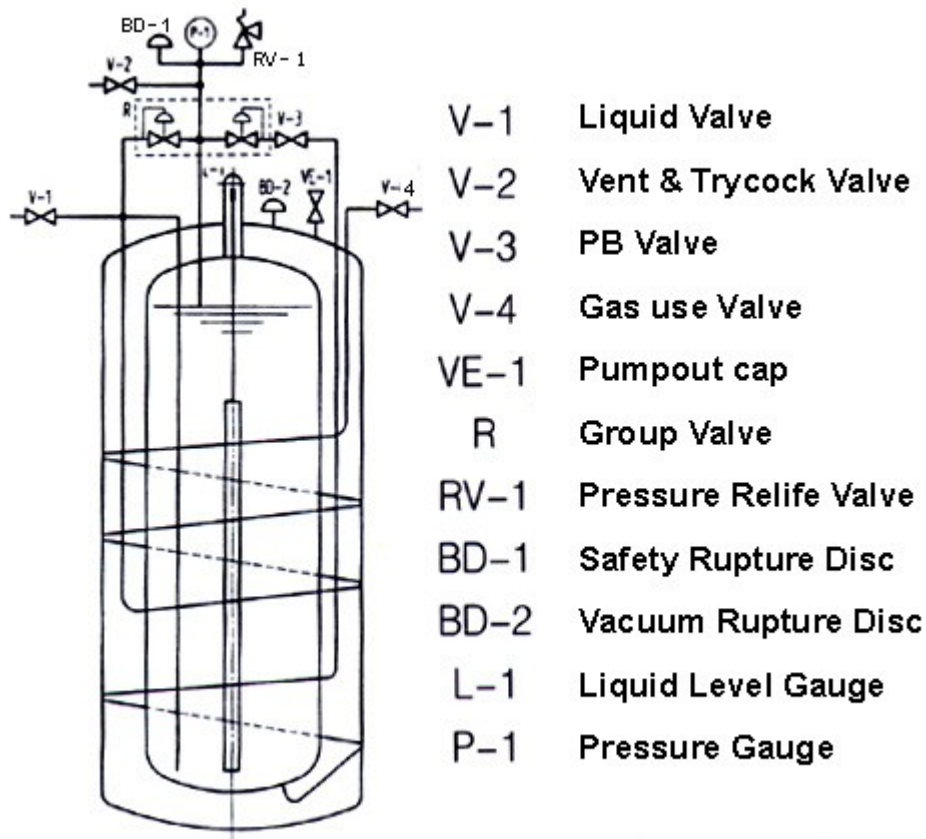
Liquid Cryogenic Cylinder



Welded Insulation Cylinder in testing



System of valve and tubes



◆ Advantageous Properties of Welded Insulation Cylinder

◆ Completely made of stainless steel, Welded Insulation Cylinder is clean, hygienic and without inflating pollution or pollution from water, air, rust, gaseous acid & alkali, or fluoride plastics etc., which usually lie in common cylinder stored gases. Thus its purity is improved, but its price is 1/3 or 1/4 reduced.

◆ One 160L Welded Insulation Cylinder permeated with liquefied oxygen equals to about 30 common oxygen cylinder, so it is an ideal equipment of concentration gas supply.

- ◆ As the Welded Insulation Cylinder is fixed a set of scientific pressure setting equipment, what you should do is to open or close the valve.
- ◆ As the gas is stored under low pressure ($\leq 1.4\text{MPa}$), Welded Insulation Cylinder has good safety. With the out surface polished, Welded Insulation Cylinder is very pleasing to the eye and durable. It is also regarded as one of Environmental Protection Green Type Products.

Technical characteristic

Model		DP160MP	DP180MP
Dia.(mm)		506	506
Height(mm)		1513	1613
Empty Weight(kg)		125	135
Max. Operating Pressure(MPa)		1.4	1.4
Safety valve setting Pressure(MPa)		1.6	1.6
Daily Evaporation Rate	N ₂ /day	2.2%	2.0%
	O ₂ Ar/day	1.5%	1.4%
Geometry Cubage(L)		176	196
Available Cubage(L)		160	180
Gas Storage Capacity(Nm ³)	N ₂	108	122
	O ₂	136	153
	Ar	132	149
Gas Delivery Rate(Nm ³ /hr)		10	10
Material		Stainless Steel	Stainless Steel
Surface Treatment		Polish	Polish
Bottom		Foot Circle	Foot Circle
Fluid Position Measure		Buoy	Buoy