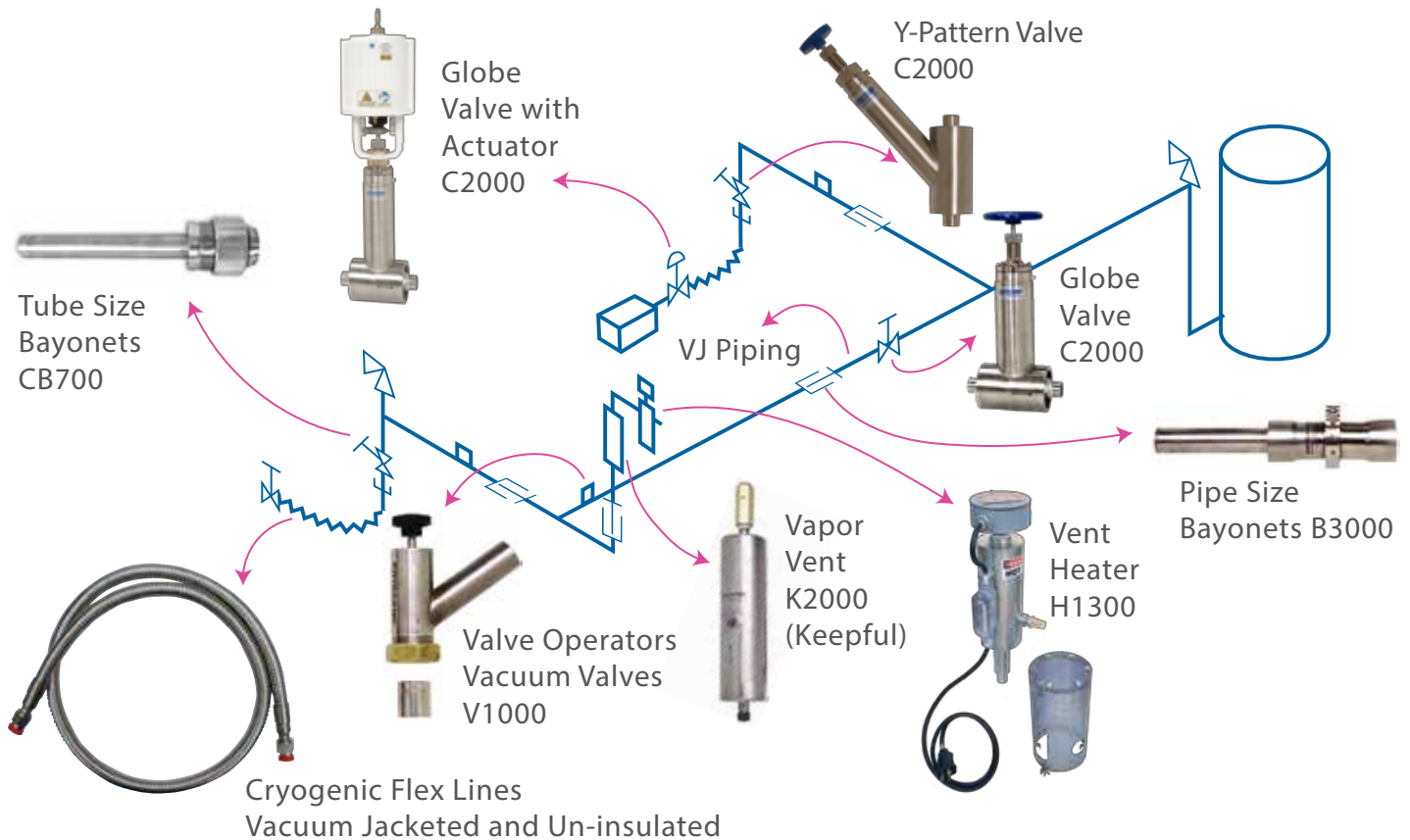


# VACUUM INSULATED PIPE SYSTEMS

For High Efficiency Cryogenic Transfer Systems



**Minimize your product loss for low temperature liquid supply with a custom designed piping system**

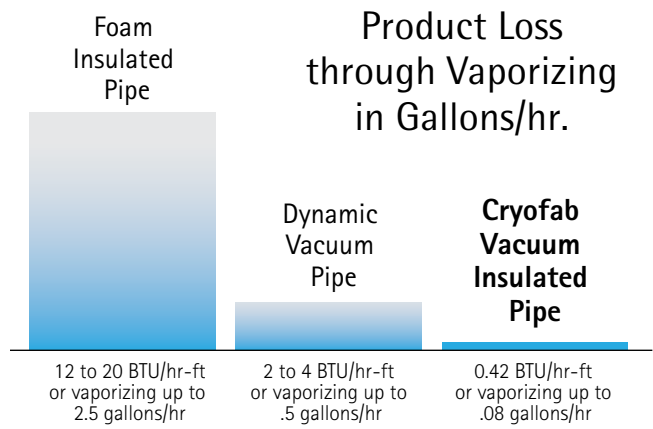
We can work from your isometric layout to provide vacuum insulated cryogenic pipe systems engineered for ease of installation as well as for optimum insulation efficiency.



# Efficient Vacuum Insulated Cryogenic Pipe Systems

Vacuum systems are much more efficient than "foam-insulated pipe" or "dynamic vacuum" systems for both insulating capabilities and cost-effective operation

At right, a comparison of heat input from a normal environment into a liquid nitrogen flow stream.\*



\*Data based on 100 ft. of 1" inner with liquid nitrogen.

## CRYOFAB VACUUM INSULATED PIPE SPECIFICATIONS

Vacuum Insulated Pipe Size				Heat Leak (BTU per Hour)	
Inner Pipe	Outer Pipe	Outer Diameter	Wt./Ft.	Pipe	Bayonet
.5"	2.0"	2.375"	2.4 lb	.32/ft	9.5
1.0"	2.5"	2.875"	3.7 lb	.42/ft	14.0
1.5"	3.0"	3.5"	4.7 lb	.54/ft	12.9
2.0"	3.5"	4.0"	5.6 lb	.74/ft	18.6

All pipe sizes shown above are Type 304 Stainless Steel Sch 5 Pipe.

MAWP (Maximum Allowable Working Pressure) of the inner pipe is 150PSI for products listed.

## Cryofab Quality

All Cryofab vacuum insulated cryogenic pipe systems are designed, constructed, and tested with the satisfaction of the customer in mind. Every customer order is inspected for conformance to our rigorous specifications before it can be released for shipment. All vacuum insulated cryogenic spools are designed to meet ANSI B31.3 specifications.

## Cryofab Experience

Since 1971, Cryofab has been manufacturing "state of the art" cryogenic equipment including vacuum insulated vessels and piping. Experts in the design and fabrication of equipment for the ultimate cold fluid, liquid helium, Cryofab has the ability to custom manufacture high quality vacuum insulated cryogenic piping systems including bayonets, elbows, tees, crosses, valves and flexible hoses.



# CRYOFAB

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## These and more can be custom designed to fit your needs

- Vacuum and Non insulated Cryogenic Flex Hose
- Keepful Devices
- Liquid Level Controllers
- Cold Traps
- Dewar Flasks
- Cryogenic Subcoolers
- Portable Containers
- Custom fabrications