

Flexible Liquid Nitrogen Hoses

Techflex™ Vacuum Insulated Hoses



Durable, frost-free, easy-to-use transfer lines

Techflex™ LN₂ hoses are designed and manufactured for long-term, maintenance-free use for the transfer of liquid nitrogen. These hoses can be used in any application requiring the safe transfer of liquid nitrogen. Frosting of lines is eliminated with our vacuum insulated design. Even with -320°F liquid nitrogen flowing through the hose, the outer surface remains at room temperature, safe to touch with bare hands.

Techflex hoses are proven superior in thermal efficiency

Independent laboratory tests have demonstrated that standard, off-the-shelf Techflex hoses offer a higher thermal efficiency than those of its competitors. This translates into real dollar savings in reduced use of cryogen over time and a longer useful service life.



Manufacturers of Cryogenic Equipment

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Applications

Technifab's Techflex LN₂ flexible vacuum insulated lines are used in applications requiring the safe and efficient transfer of liquid nitrogen to any use point regardless of distance. These hoses are used in laboratories, food and pharmaceutical processing facilities, with medical equipment and in a wide variety of industrial applications.

Constructed for Superior Thermal Efficiency and Long Service Life Under Normal Use

Techflex hoses feature an inner and outer flexible stainless steel line. The interlocking stainless steel armor covering is lightweight, highly flexible, durable and smooth to the touch. The inner line, which carries the liquid nitrogen, is wrapped with multiple layers of super-insulation and is inserted into the outer line. After the two lines are welded together on both ends, the space between them is evacuated. Independent tests have shown Techflex hoses surpass competitive products in heat-leak performance. All Techflex hoses are backed by a full one-year warranty on all materials and workmanship.



Liquid Nitrogen Transfer Lines

Techflex™ LN₂ Specifications

Techflex hose specifications

Our Standard Techflex hoses come in the following sizes:

Inner Diameter	1/4"	3/8"	1/2"	1"
Outer Diameter	1.11"	1.37"	1.71"	2.55"
O.D. w/Armor	1.3"	1.5"	1.9"	3"
Static Bend Radius	4.5"	5.5"	7.0"	8.75"
M.A.W.P. (p.s.i.)	150	150	150	75

Standard lengths: 6ft., 8ft. and 10ft. are shipped from stock.

Available options

Techflex hoses may be ordered with any of the following options and accessories:

- Bayonet Connections
- VJ Shut-off Valves
- 1/4" + Inner Diameters
- 45° / 90° Elbows
- Tees
- Rigid Sections

Available Fittings include:

- CGA, JIC, MPT, FPT and compression fittings

Safer and more efficient

The use of Techflex in place of non-insulated transfer hoses results in significant cost savings, as it greatly reduces liquid loss during transfer. These cost savings are further enhanced by the improved quality of your liquids. Techflex will also improve process safety by eliminating frosty and dripping conditions, which create safety hazards. All of the above make Techflex the safe and efficient way to transfer liquid nitrogen.

Hoses for the transfer of other cryogenics

Our standard Techflex hoses are designed for liquid nitrogen use, but can also be used for liquid argon transfer. Additionally, we manufacture hoses for other cryogenic liquids, such as oxygen and helium. These are available upon request and manufactured to your special needs.



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Custom Hoses

Technifab designs and manufactures custom hoses to meet your specific requirements. Custom-tailored systems may include fittings such as tees and elbows, as well as bayonets and valves. A wide variety of end connections is available to accommodate hook-up to any type of equipment. Although we stock hoses with inside diameters of up to one inch, we can manufacture larger sizes.

Accessories

Technifab is able to supply accessories needed for the safe transfer of cryogenic liquids including gloves, face shields, and aprons to help protect personnel.

Quality Assurance

Technifab Techflex transfer hoses and accessories are backed by our Quality Assurance warranty. Ask for details. Technifab Products specializes in liquid cryogenic transfer equipment, vacuum jacketed piping, flexible vacuum insulated transfer lines, phase separators, ASME code pressure vessels, custom engineered products for cryogenic applications and other specialty cryogenic equipment.

