

LHe Transfer Equipment

Ensuring safe transfer of liquid helium



Cost-effective, high-efficiency liquid helium equipment

Technifab designs and manufactures liquid helium transfer equipment to ensure the safe and efficient transfer of liquid helium. Our full line of low heat-leak liquid helium transfer equipment includes:

- Bulk transfer hoses
- Manifolds
- Adapters
- Container hoses
- Dewar fill hoses
- Cryostat stingers
- Dewar stingers
- Diptube extensions

Applications:

Technifab's Techflex™-LHe flexible vacuum insulated lines can be used in any application to safely transfer liquid helium from a storage dewar to a use point, including scientific, industrial and medical research equipment. Our transfer lines are manufactured with non-magnetic materials for helium service to MRI magnets and other similar applications.

High Thermal Efficiency Hoses

Our exceptionally low heat-leak hoses feature stainless steel spiral wrapped coverings to maximize flexibility and durability. Independent testing has proven our LHe transfer hoses are more efficient than those of the competition. These hoses are made of 300 series, non-magnetic stainless steel which provides the best weight to strength ratio of common non-corrosive metals. The inner carrier line is also made of 300 series stainless steel, which resists radiant heat better than copper, thus offering superior thermal performance. The inner line which carries the helium is wrapped with multiple layers of super-insulation, evacuated and welded as one complete sealed unit.



All LHe equipment is verified vacuum leak tight on a helium mass spectrometer leak detector. Just prior to shipment all hoses are cold tested to verify vacuum retention.

Techflex™-LHe transfer lines are available in standard designs or can be manufactured to customer specifications. Common end configurations include a variety of bayonets and stingers or lances.

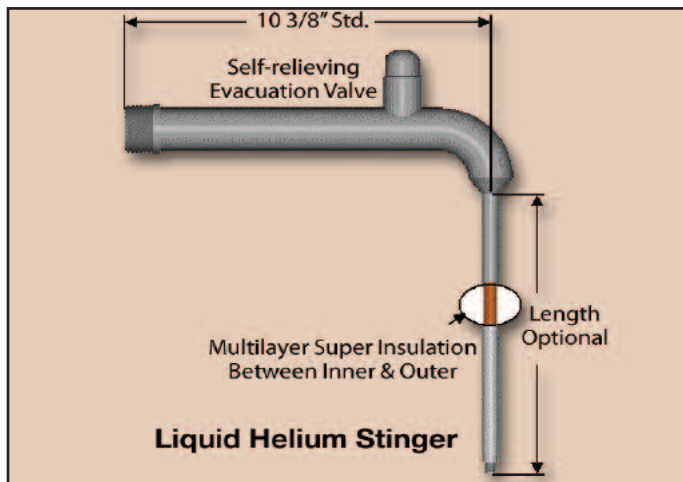
Liquid Helium Transfer Equipment

Techflex™-LHe transfer system information

Vacuum Jacketed Transfer Manifolds:

Technifab manufactures specialty manifolds, gas recovery systems and related equipment for a variety of liquid helium transfer applications. Included are manifolds for LHe transfill stations designed to transfer liquid helium from tanker trucks to dewars for delivery to customers. We also manufacture manifolds for the transfer of liquid helium from tanker truck to superconducting magnets. These vacuum jacketed manifolds are complete system assemblies with remotely-controlled pneumatic actuators mounted on cryogenic shut-off valves to start and stop the flow of LHe. Safety relief valves are installed on the system as required.

Our experience in LHe manifold systems makes us the vendor of choice for anyone requiring high efficiency liquid helium transfer systems. We can design and build vacuum insulated transfer equipment for any application and mate to industry standard bayonets or use our own proprietary design.



The above drawing illustrates only one of the many varieties of stingers that we can manufacture.



Stingers:

Our vacuum jacketed stingers are manufactured to satisfy a variety of customer requirements. Liquid fill and withdrawal stingers are manufactured to customer specifications with or without liquid shut-off valves.



Bayonet Connectors:

Mating different pieces of equipment or systems with non-matching bayonets is not a problem. Technifab manufactures bayonet connectors and adapters to mate any two pieces of equipment.

Accessories:

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

Quality Assurance:

Technifab Techflex™-LHe transfer systems and accessories are backed by our Quality Assurance warranty. Ask for details. Technifab Products specializes in liquid helium 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.



Manufacturers of Cryogenic Equipment

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