

# Techflex Vacuum Insulated Hoses

## Flexible Cryogenic Transfer Hoses

The performance you want, with the safety you need.

Technifab's Techflex flexible vacuum insulated lines are used in applications requiring the safe and efficient transfer of liquid nitrogen or other cryogenics.

### Benefits

#### Lower Cryogen Consumption Saves Money

- The most thermally efficient transfer hoses available, Techflex reduces cryogen losses.
- Lightweight, thin walled construction reduces liquid nitrogen cool down losses.

#### Improved Productivity

- Higher quality liquid with lower gas content at the point of use improves equipment efficiency.
- Rapid hose cool down reduces cooling time and speeds liquid cryogen delivery to the use point.

#### Safer To Use

- Hazardous ice & dripping water is reduced or eliminated, increasing safety.
- Outer surface is safe to the touch, even when used with liquid hydrogen or liquid helium.

### Applications

Anywhere that cryogenic liquids are used in processing, our Techflex vacuum jacketed transfer hoses can ensure the highest quality liquid is delivered to the use point. Technifab Techflex hoses are currently being used in the following industries:

- |   |                            |
|---|----------------------------|
| ▪ Electronic and Semiconductor                          | ▪ Food and Beverage        |
| ▪ Laboratory, Medical, Pharmaceutical and Biotechnology | ▪ Aerospace and Industrial |



#### Durable Design With Quality You Can Trust

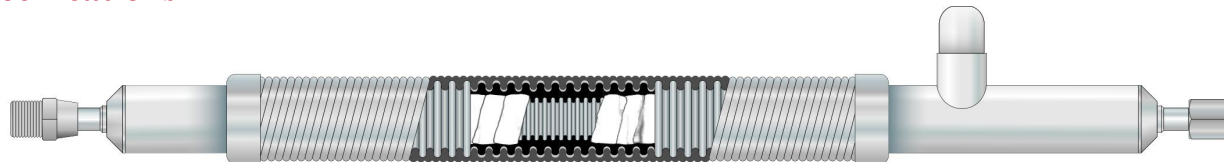
- Interlocking stainless steel cover provides a light weight, durable, and flexible product.
- Each transfer hose is flow and leak tested to ensure superior quality.

#### Delivered When You Need It

- Standard lengths and end fittings are maintained in-stock for quick delivery.
- Custom configurations can often be made using in-stock products.

LT-33179(6)

## Specifications



Inside Diameter	Outside Diameter	Minimum Bend Radius	MAWP in PSI (bar)
1/4"	1 3/8" (3.5 cm)	5" (13 cm)	150 (10.3)
3/8"	1 5/8" (4.1 cm)	6" (15 cm)	150 (10.3)
1/2"	2" (5.1 cm)	7" (18 cm)	150 (10.3)
3/4"	3" (7.6 cm)	8" (20 cm)	150 (10.3)
1"	3" (7.6 cm)	14" (36 cm)	150 (10.3)
1-1/2" <sup>1</sup>	4" (10 cm)	19" (48 cm)	150 (10.3)
2" <sup>1</sup>	5.1" (13 cm)	27" (69 cm)	150 (10.3)

<sup>1</sup>Available only with Braided Outer Covering.

Standard lengths of 4', 6', 8', 10', 12' are kept in stock for 1/4" through 1/2" inside diameter hoses. Call for availability of hoses in other sizes.

Standard fittings are 1/2" JIC (CGA-295 compatible), 1/2" NPT (Male), and plain tube ends. All other fittings and lengths are available by request.

## Options and Accessories

- Integrated vacuum jacketed Tees and Elbows
- Vacuum jacketed shut-off valves
- Bayonet connections
- Sintered metal diffusers (phase separators)
- Pressure relief valve assemblies
- High pressure ratings available upon request



Technifab manufactures and installs vacuum jacketed pipe, transfer hoses, dewars, valves, and other cryogenic equipment. We also provide the industry leading warranty and service to back it up.

Satisfying customers since 1992 because, *We Know Cryo...*

LT-33179(6)