

# Techniguard L-Series Pipe

## Techniguard L-Series Vacuum Jacketed Pipe Configurable, Value-Priced Vacuum Insulated Pipe

Techniguard L-Series vacuum jacketed pipe is a low heat leak, pre-made vacuum insulated pipe designed to transfer cryogenic liquids.

### Benefits

- L-Series vacuum jacketed pipe reduces heat losses by more than a factor of 10 compared to foam covered pipe.
- Does not degrade like foam insulated pipe and maintains insulative properties.
- Higher pressure rating for liquid CO<sub>2</sub> and other cryogenics.
- Low maintenance Vacuum Jacketed Pipe (VJP) doesn't require external vacuum pumps or pump maintenance.
- Economically priced.
- Valves and vents are also available.



### Construction & Installation

- 300 Series Stainless steel inner and outer construction for maximum strength and corrosion resistance.
- Liquid Nitrogen, CO<sub>2</sub>, Argon and LNG ready.
- Pipe is heated during evacuation to enhance vacuum acquisition.
- Embedded getter materials absorb outgassed molecules in the vacuum space for longer life.
- Helium mass spectrometer leak tested to ensure vacuum integrity.
- Pre-built modules allow rapid configuration into a system when you need it.
- Installation kits make adding joint insulation easier and eliminate the need to evacuate after welding joints in the field.



LT-55642(2)

## Variety of Configurations

Our standard sections allow low cost configurations with rapid delivery to meet your needs:

- Straight lengths available from stock in 2 - 20 foot lengths at 1' increments.
- 1", 2", and 3" diameter inner pipe sizes.
- Cryogenic Valves and Gas Vents available.
- Straight, elbow, and tee installation kits available for joints welded in the field.

## Specifications

Model	Nominal Pipe Size In inches	Inner Diameter Inches (mm)	Outside Diameter Inches (mm)	MAWP psig (bar)
L100	1 x 2	1.19 (30)	2-3/8 (60)	400 (28)
L200	2 x 3	2.25 (57)	3-1/2 (89)	400 (28)
L300	3 x 5	3.33 (85)	5-9/16 (141)	400 (28)

Outer pipe dimensions represent straight sections of pipe only. For joints, elbows, and valves consult your Technifab representative.

Bendable sections with an armor outer covering available.

ASME B31.3 certification is available upon request.

## Quality Assurance

Techniguard L-Series Pipe is guaranteed to be free of defects and backed by a 1 year warranty. Ask for details.

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

Satisfying customers since 1992 because, ***We Know Cryo<sup>®</sup>...***