

Techniguard Vacuum Jacketed Pipe

Techniguard B-Series

High Efficiency, Bendable Vacuum Insulated Pipe



Installation Made Easy

- Simplifies cryogenic system layout requirements; reduces precise system measurements
- Simpler to install than foam covered pipe
- Standardized bayonets allow easier connections with R-Series and B-Series Vacuum Jacketed Pipe (VJP)
- No cryogenic piping experience is required for pipe insulation.

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P R O D U C T S
Manufacturers of Cryogenic Equipment
We Know Cryo™

Features

- Close-tolerance bayonets eliminate the need for field evacuation and improve system reconfiguration if ever needed
- Low maintenance vacuum jacketed pipe doesn't require external vacuum pumps or maintenance
- Bendable pipe design that minimizes heat leakage when VJP is bent
- Available in different coverings to best fit specific application needs
- Can be coiled for simpler packaging and shipping
- Provides a more cost effective installation than rigid pipe with only a small loss in performance.
- Liquid nitrogen, CO₂, argon, and hydrogen ready; Liquid oxygen option is available.

Quality Assurance:

Techniguard piping and connections are fully guaranteed to be free of defects and are backed by a 3-year warranty, the best in the business.

Ask for details.



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Techniguard Bendable Pipe Specifications

Model	Inner Diameter Inches (mm)	Available Outer Coverings	Outside Diameter Inches (mm)	MAWP in psig (bar)	Minimum Bend Radius - Inches (cm)	Weight lb/ft (kg/m)
B50	1/2 (13)	Heat Shrink, Armor, Braided	1-3/4 (44), 2 (51)	200 (13.8)	10 (25)	1.0 (1.5)
B65	5/8 (16)	Heat Shrink, Armor	2-1/4 (57), 2-1/2 (64)	200 (13.8)	15 (38)	1.6 (2.4)
B100	1 (25)	Heat Shrink, Armor	2-5/8 (67), 3 (76)	150 (10.3)	15 (38)	2.8 (4.2)
B125	1-1/4 (32)	Heat Shrink, Braided	3-1/4 (83), 3-1/2 (89)	150 (10.3)	20 (51)	3.1 (4.5)
B150	1-1/2 (38)	Braided	4 (100)	150 (10.3)	20 (51)	3.8 (5.7)
B200	2 (51)	Braided	5 (130)	150 (10.3)	30 (76)	4.6 (6.9)

Techniguard Bendable Vacuum Jacketed Pipe Construction

- Stainless steel inner and outer pipe construction for maximum strength and corrosion resistance
- A vacuum and multi-layer super insulation to create a low heat transfer rate to minimize cryogenic liquid boil-off
- Heated during evacuation to remove molecules that can outgas later
- Embedded getter materials to absorb outgassed molecules
- Standardized bayonet connections to provide a frost-free joint between cryogenic lines and simplified installation

A variety of options are available to meet your specific needs including:

- Lengths up to 60 feet (19 meter).
- Choice of external covering to best fit your application needs
- Choice of end connections
- ASME B31.3 and liquid oxygen certification available



For over 17 years we've manufactured and installed vacuum jacketed pipe, transfer hoses, dewars, valves, and other cryogenic equipment.

We also provide the industry leading warranty and service to back it up.



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