

Techniguard R-Series Rigid Vacuum Jacketed Pipe

High efficiency, maintenance free pipe for cryogenic liquid transfer

Techniguard VJP is a low heat leak, high performance vacuum insulated pipe designed to transfer cryogenic liquids.



Benefits

- Rigid vacuum jacketed pipe offers you the best return on your investment because it has the lowest heat leak, highest efficiency and longest life cycle.
- The high efficiency minimizes boil off and liquid losses saving you money in operating expenses and reducing cryogen use.
- Our wide selection of pipe sizes and accessories allows you Technifab's high quality workmanship for your complete system.
- Ten year warranty provides worry free operation.
- When compared to foam insulated pipe, vacuum jacketed pipe saves on installation and operating costs.
- Vacuum jacketed pipe provides the lowest maintenance expenses because it doesn't require operation shut downs for vacuum pump repairs.

Features

- Close-tolerance bayonets reduce installation or reconfiguration costs.
- Stainless steel inner and outer construction provides maximum strength and corrosion resistance.
- Pipe is heated during evacuation to remove molecules that can out gas later.
- Embedded getter materials absorb out gassed molecules in the vacuum space for longer life.
- Standardized bayonets make easy connections between our R-Series and B-Series vacuum jacketed pipe.
- ASME B31.3, CRN (Canadian Registration Number) and LOX service certification is available upon request.



Easy to install bayonet connections.

Applications

- Liquid nitrogen, carbon dioxide, argon, and hydrogen ready; liquid oxygen and helium option are available.
- Use in pharmaceutical, biological storage and research, food and beverage, metal tempering, rubber deflashing, and electronics manufacturing and testing applications.

Rigid Pipe Specifications

Model	Nominal Pipe Size In inches	Inner Diameter Inches (mm)	Outside Diameter Inches (mm)	MAWP psig (bar)	Dry Weight lb/ft (kg/m)
R50T	1/2 ¹ x 1-1/2 ¹	0.43 (11)	1.50 (38)	150 (10.3)	1.2 (1.7)
R65T	5/8 ¹ x 1-1/2	0.56 (14.2)	1.90 (48)	150 (10.3)	1.5 (2.2)
R50	1/2 x 2	0.71 (18)	2-3/8 (60)	150 (10.3)	2.3 (3.2)
R75	3/4 x 2	0.92 (23.4)	2-3/8 (60)	150 (10.3)	2.2 (3.4)
R100	1 x 2-1/2	1.19 (30.2)	2-7/8 (73)	150 (10.3)	3.4 (5.0)
R150	1-1/2 x 3	1.77 (45)	3-1/2 (89)	150 (10.3)	4.4 (6.5)
R200	2 x 4	2.25 (57.2)	4-1/2 (114)	150 (10.3)	5.6 (8.3)
R300	3 x 5	3.33 (85.6)	5-9/16 (141)	150 (10.3)	9.5 (14.1)
R400	4 x 6	4.33 (110)	6-5/8 (168)	150 (10.3)	11.7 (17.4)
R600 ²	6 x 8	6.41 (162.8)	8-5/8 (219)	150 (10.3)	17.7 (26.3)
R800 ²	8 x 10	8.41 (213.6)	10-3/4 (273)	150(10.3)	25.4 (37.8)
R1000 ²	10 x 12	10.48 (266.2)	12-3/4 (323.9)	150 (10.3)	37.7 (56.1)

Rigid pipe is made with welded or seamless ASTM A312 or A269.

¹Stainless steel tubing, not Nominal Pipe Size (NPS). Refer to LT-33604 for more information on Technifab's Techniguard Vacuum Insulated Tubing.

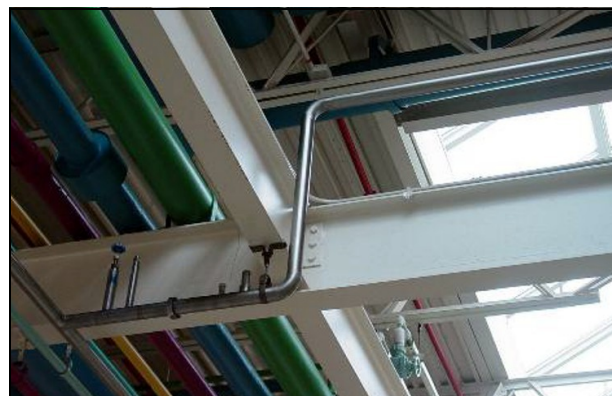
²Available with field joint connections only.

Variety of Configurations*

Pipe can be specified to your needs.

- Custom lengths and configurations.
- Choice of end connections.
- Cryogenic Valves can be installed in-line.
- Gas Traps and Gas Vents.
- Thermocouple vacuum gauge tubes.
- Bayonets up to 4" IPS.

* Accessories not available in all pipe sizes.



Quality Assurance

Techniguard Rigid Pipe is fully guaranteed to be defect free for 10-years.