



## SHELL - N - TUBE



# FALCON - ANACONDA - MONITOR

## Super Insulated Vacuum Jacketed Piping System

Shell-N-Tube make **Falcon** series rigid, **Anaconda** series flexible, and **Monitor** series semi-flexible super insulated, vacuum jacketed pipelines & hoses. They are extensively used to transfer volatile, temperature sensitive fluids from point of storage to point of use without appreciable temperature rise/product loss as prevalent in conventional non vacuum insulated piping, due to ambient heat in leak.

### Applications

- ❑ Liquid nitrogen, oxygen, argon from ASU to tank.
- ❑ Cryogenic liquid transfer from mother storage tank to transport tank; to customer tank; to pump.
- ❑ Liquid nitrogen in food freezing, pharmaceutical reactors, animal husbandry and LIN injectors for dosing.
- ❑ Hot/chilled water, steam ammonia, ethylene in process industries, pharmaceutical and

### Benefits

- ❑ Reduces heat-in-leak by 80% compared to conventional foam/slag wool insulated pipes.
- ❑ Easy to install pre-fabricated lines.
- ❑ Longer life
- ❑ Negligible maintenance and lowest life cycle costs
- ❑ Aesthetically superior and compact design enables easier pipeline routing and lower structural costs.

### Projects

- ❑ Supplied upto 30 kilometers of super insulated vacuum jacketed pipelines in India and abroad.
- ❑ Liquid Hydrogen pipeline for upto 140,000 liters per hour flow.
- ❑ Multicore vacuum jacketed pipeline for liquid helium application.
- ❑ High pressure pipeline upto 81 bar.
- ❑ Large dia pipeline upto 400 mm

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## Specifications

### FALCON - RIGID PIPELINES

#### Standard Model

- Max Length - 5 metres
- MAWP Bar - 20 Bar

Model Code	Inner Line Size	Outer Line Size	Heat Leak Btu/ft/hr	LN2 flow
F-15	DN 15	DN 80	0.39	500 LPH
F-25	DN 25	DN 80	0.49	1500 LPH
F-40	DN 40	DN 100	0.60	2500 LPH
F-50	DN 50	DN 100	0.82	4000 LPH
F-80	DN 80	DN 150	1.00	7500 LPH

### ANACONDA - FLEXIBLE HOSES

#### Standard Model

- Min Length - 3 metres
- MAWP Bar - 20 Bar

Model Code	Inner Line Size	Outer Line Size	Max Length	Heat Leak Btu/ft/hr	Bend Radius
A-10	DN 10	DN 40	20 m	0.70	250 mm
A-15	DN 15	DN 50	20 m	1.00	350 mm
A-25	DN 20	DN 65	15 m	1.50	350 mm
A-40	DN 40	DN 80	10 m	1.80	450 mm
A-50	DN 50	DN 100	6 m	2.48	450 mm

### MONITOR - SEMI FLEXIBLE HOSES

#### Standard Model

- Min Max Length - 3 to 10 metres
- MAWP Bar - 20 Bar

Model Code	Inner Line Size	Outer Line Size	Heat Leak Btu/ft/hr	LN2 flow
M-15	DN 15	DN 80	0.60	500 LPH
M-20	DN 20	DN 80	0.75	1000 LPH
M-25	DN 25	DN 80	1.00	1500 LPH
M-40	DN 40	DN 100	1.20	2500 LPH
M-50	DN 50	DN 100	1.65	4000 LPH
M-80	DN 80	DN 150	2.15	7500 LPH

## Options

- Turnkey solutions for complete cryogenic supply and delivery system.
- Higher pressures upto 400 bar available on request.
- Larger diameters upto 400 mm available on request.
- DV6R Vacuum Sensor in each spool.
- Vacuum Jacketed Bayonet Joints.
- Vacuum Jacketed Field Joints.
- Longer spools up to 10 metres length.
- Hybrid lines including Rigid & Flexible in one spool

