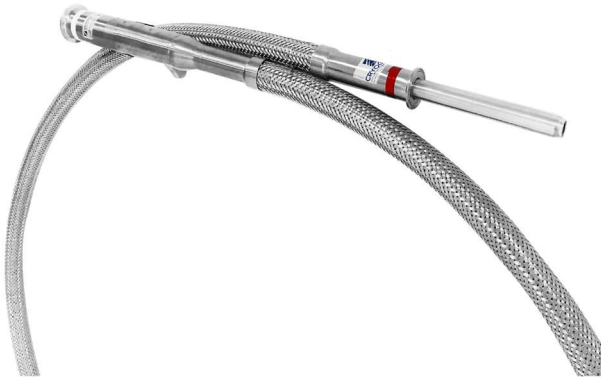


Semi-Flex Static



Pre-engineered modular Semi-Flex transfer hose has added advantage over the traditional rigid VJP, especially when system upgrade is frequently done. This option is cost saving as the flexibility of the pipe reduces the necessity for precise system layout measurements. It allows the whole system to be easily reused if use-point locations and plant layout are changed. Semi-Flex can be added if required to the existing system without major rework expenses.

Semi-Flex facilitate users to design and construct their own LN2 delivery system with minimum piping engineering experience or knowledge.

All Semi-Flex comes with CSM renowned customer service, from conceptual design to implementation, and are backed by a 5 year vacuum warranty; 1 year defect warranty

Semi-Flex Static Transfer Hose

Semi-Flex, a semi-rigid bendable pipe with optimal flexibility is suitable for long distance piping system application, an alternative to traditional rigid piping. It's lightweight stainless steel construction reduces cool-down losses to an absolute minimum.

Semi-Flex hoses are protected by a high quality and wear resistant stainless steel braided outer covering. Typical hoses are manufactured with pipe thread ends or bayonet connection.

These hoses are used in a wide variety of applications as main transfer hose for LN2 such as food freezing, semiconductor test handlers, MBE and LN2 dosing applications.

Related Products:



Modular Valve



Modular Tee

Features and Benefits

- Semi-Flex can be coiled for shipment by air freight, thus eliminate the need for expensive logistics
- Tees, elbows, bayonets and valves can be incorporated with *Semi-Flex* transfer hose for a customized LN2 piping system application
- Select hoses are stocked for immediate delivery
- Super insulation and proprietary chemical getters ensures long lasting vacuum integrity
- Each hose is evacuated (10^{-6} torr), helium leak checked (1×10^{-9} std cc/sec) and liquid nitrogen cold shocked before shipping
- Vacuum insulation eliminates frost, ice and related safety hazards

Semi-Flex Static Specifications

Model	SF16	SF25
Inner Diameter	DN 16 5/8" NB (16.2 mm)	DN 25 1" (25.1 mm)
Outer Diameter	DN 40 52.1 mm	DN 50 62.8 mm
Steady State Heat Leak	0.9 btu/hr/ft (0.9 watts/m)	1.8 btu/hr/ft (1.8 watts/m)
Bayonet Heat Leak	5.0 btu/hr (1.5 watts)	6.0 btu/hr (1.8 watts)
Max. Operating Pressure	200 psig (13.8 bar)	200 psig (13.8 bar)
Weight	1.0 lbs/ft (1.4 kg/m)	1.3 lbs/ft (1.9 kg/m)
Min. Flexible Bend Radius	18" (45 cm)	22" (55 cm)
Min. Static Bend Radius	12" (30 cm)	16" (40 cm)
Vacuum Insulation Type	Static Vacuum with MLI, Absorbent and Getters	
Maximum Length	Single Spool 100 ft (30.48 m)	
Protective Outer Cover	RFB Braided Flex	
Material Construction	Stainless Steel Series 300	
Standard Testing	Dimensional Check He leak checked 1 x 10 ⁻⁹ cc/s	
Optional	Pneumatic pressure test, Vacuum retention testing, LN2 cold shock, pre-material certs., X-ray, ASME B31.3 certification, CFOS cleaning for O2 services	

Semi-Flex Static, Pre-engineered & Modular Vacuum System

