



Semi-Flex Dynamic

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

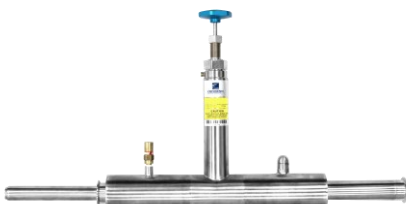
Semi-Flex Dynamic Transfer Hose

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 braid 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 T- valve



Modular Tee with Jumper Hose & Zone Valve in dynamic vacuum set up

Features and Benefits

- Tees, elbows, bayonets and valves can be incorporated with *Semi-Flex* transfer hose for a customized LN2 piping system
- Both flexible and rigid sections can be combined as one spool
- Select hoses are stocked for immediate delivery
- Special MLI system ensure fast pump down speed to < 10⁻⁴ Torr
- Each hose is helium leak checked (1 x10⁻⁹ std cc/sec) and liquid nitrogen cold shocked before shipping
- Vacuum insulation eliminates frost, ice and related safety hazards

Semi-Flex Dynamic Specifications

Model	SF16	SF25	SF32	SF40	SF50
Inner Diameter	DN 16	DN 25	DN 32	DN 40	DN 50
	¾" (16.2 mm)	1" (25.1 mm)	1¾" (34.2 mm)	1½" (40 mm)	2" (50.1 mm)
Outer Diameter	DN 40	DN 50	DN 65	DN 100	DN 100
	(52.1 mm)	(62.8 mm)	(81.2 mm)	(120 mm)	(120 mm)
Steady State Heat Leak	1.4 btu/hr/ft	1.5 btu/hr/ft	1.6 btu/hr/ft	1.8 btu/hr/ft	1.7 btu/hr/ft
	(1.3 watts/m)	(1.4 watts/m)	(1.5 watts/m)	(1.7 watts/m)	(1.6 watts/m)
Bayonet Heat Leak	4.0 btu/hr	8.1btu/hr	8.1 btu/hr	9.2 btu/hr	11.3 btu/hr
	(1.2 watts)	(2.4 watts)	(2.4 watts)	(2.7 watts)	(3.3 watts)
Max. Operating Pressure	200 psig	200 psig	200 psig	200 psig	200 psig
	(13.8 bar)	(13.8 bar)	(13.8 bar)	(13.8 bar)	(13.8 bar)
Weight	1.0 lbs/ft	1.3 lbs/ft	3.0 lbs/ft	5.3 lbs/ft	5.5 lbs/ft
	(1.4 kg/m)	(1.9 kg/m)	(4.5 kg/m)	(7.9 kg/m)	(8.2 kg/m)
Min. Bend Radius (Static)	12" (30 cm)	16" (40 cm)	18" (45 cm)	24" (60 cm)	28" (72 cm)
Vacuum Insulation Type	Static or Dynamic Vacuum				
Maximum Length	Single Spool 59 ft (18.00 m)				
Protective Outer Covering	RFB - Regular Flex Braid				
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 Dynamic, Pre-engineered Modular Vacuum System

