

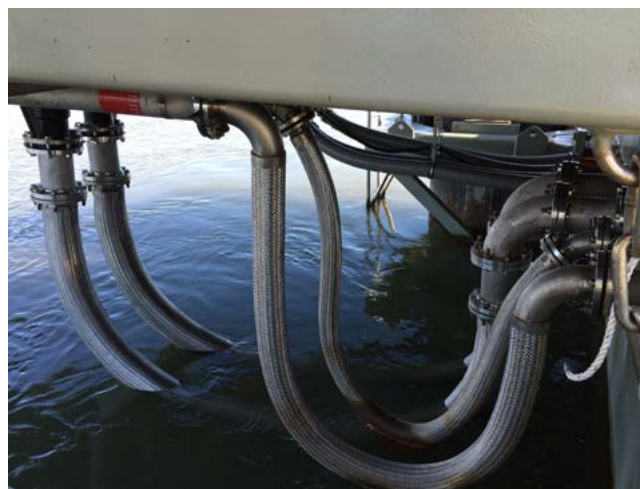
Jacketed Hose

Vitalflex® Jacketed Hose

A Jacketed Hose assembly consists of a "hose within a hose." An inner or primary media conveying hose is enclosed or jacketed by a larger diameter hose. The hoses are joined at each end by specially designed fittings so that there is no media pathway between the two hoses.

Jacketed assemblies are often specified when the primary media must be kept at either an elevated or cryogenic temperature. Steam is often circulated through the jacket hose to keep a viscous material in the inner hose hot and easily conveyed. A vacuum can also be pulled on the jacket hose to insulate cryogenic liquids being conveyed in the inner hose.

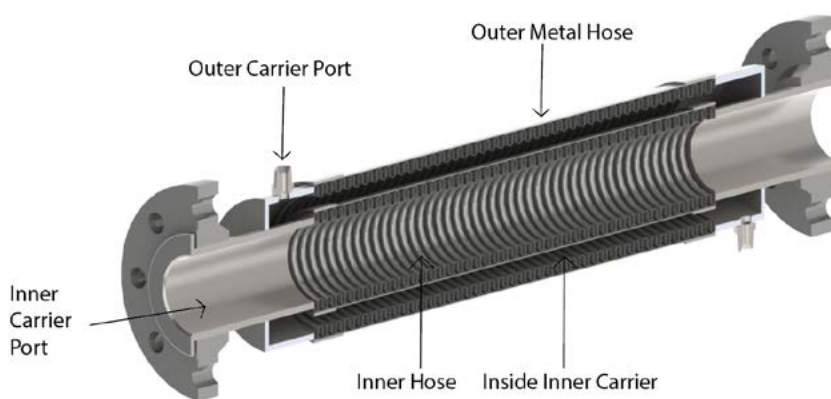
The media typically is steam, hot oil or hot water to raise the temperature of the fluid moved in the internal hose. Also cold products such as liquid helium or nitrogen can be used to lower the temperature of the fluid with-in the internal hose.



The specialist hose design can also be used to contain hazardous medium in the event of a rupture. The outer hose will capture any medium that leaks from the inner hose preventing any safety or environmental issues. Sensors can be installed on the ports of the outer hoses to analyse any changes in pressure or gas detection.

Following Applications:

- Heated processes
- Rail car and tank truck loading/unloading
- Marine transfer
- Flexible connections to vibrating equipment
- To relieve pump housing stresses
- Hazardous material piping system using an alarmed vacuum jacket
- Safety barrier for toxic processes
- Leak detection systems
- Liquified food transfer systems
- Chlorine transfer
- Cryogenics (fast freezing)



Inner hose nb size	6mm	10mm	12mm	19mm	25mm	32mm	38mm	50mm	65mm	75mm	100mm	125mm	150mm	200mm
Outer hose nb size	12mm	19mm	25mm	32mm	38mm	50mm	65mm	75mm	100mm	150mm	150mm	200mm	200mm	250mm
Inner hose max pressure (kPa)	16270	11299	8445	7129	5487	4136	3840	3930	2826	2310	1654	1316	1137	1643