

Stainless Steel Hose

VITALFLEX® - Vacuum Jacketed Ultra (VVJU)

Construction: SS1-A Tube and Single Braid / SS2-A Tube and Double Braid

Profile: Annular / Close Pitch

Tube Available: 300 / 304 / 316 Stainless Steel /

Cover options: 300 / 304 / 316 Stainless Steel /

Size Available: 5/8" - 2"

(Larger sizes upon Request)

Max Temp: -196°C to 700°C

Low | Med | High

Flexibility ☐ ☐ ☒

Cycle Life ☐ ☒ ☐

Pressure Rating ☐ ☒ ☐

Chemical Resistance ☐ ☐ ☒

Wall Thickness ☐ ☒ ☐

Construction

Ultra-Flex transfer hose is a ultra-flexible, vacuum insulated LN2 transfer hose with high flexibility. It has the lowest dynamic bend radius among all cryogenic hoses in the market. Due to its lightweight stainless steel construction, cool-down loss can be reduced to an absolute minimum.



Ultra-Flex hoses are protected by a tough and antikink stainless steel spiral wrap outer covering, its non wire braid prevent potential operator injury due to sharp wire found in traditional braided sleeve. Typical hoses are manufactured with pipe thread ends or female flare 1/2" JIC/CGA fittings or C5 bayonet.

These hoses are used in a wide variety of applications including tool connections with portable dewars supplying LN2 to test handlers, LN2 doser, or any moving reservoirs and custom OEM applications.

Specifications

Part Number	Inner Dia (mm)	Outer Dia (mm)	"Steady State Heat Leak (watts/hr)"	"Bayonet heat leak (watts)"	Bend Radius Static (mm)	Bend Radius Dynamic (mm)	Working Pressure (kPa)
VVJU-08	8.2	39	2.6	1.2	152	203	1030
VVJU-12	12.1	49	3	1.2	203	254	1030

Optional: Pneumatic pressure test, Vacuum retention testing, LN2 cold shock, pre-material certs., X-ray, ASME B31.3 certification, CFOS cleaning for O2 services

End couplings available: Bayonet, threaded, flanged