

Stainless Steel Hose

VITALFLEX® - Vacuum Jacketed Semi (VVJS)

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

Vacuum Jacketed Semi (VVJS) is 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.

The VVJS 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.



Specifications

Part Number	Inner Dia (mm)	Outer Dia (mm)	"Steady State Heat Leak (watts/hr)"	"Bayonet heat leak (watts)"	Bend Radius (mm)	Working Pressure (kPa)
VVJS-16	16.2	52.1	1.3	1.2	300	1380
VVJS-25	25.1	62.8	1.4	2.4	400	1380
VVJS-32	34.2	81.2	1.5	2.4	450	1380
VVSJ-40	40	120	1.7	2.7	600	1380
VVSJ-50	50.1	120	1.6	3.3	720	1380

Optional manufacturing options: 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