

# 551 SERIES ULTRA-FLEXIBLE VJ HOSES



The 551 Series Ultra-Flexible Vacuum-Jacketed transfer hose is engineered for optimal performance and ease of handling in cryogenic laboratory applications. Featuring a 3/8-inch unbraided inner core for smooth cryogen flow and a 1.4-inch outer diameter with braided outer jacket for enhanced flexibility and durability, this insulated cryogenic hose is ideal for connecting the CryoWiz™ cryogenic switchover system to application use points. Its compact, lightweight design allows for tight bends and simplified routing, making it the perfect transfer line for point-of-use connections requiring both reliability and maneuverability.

## Typical Applications

- Laboratories with Incubators
- Cryopreservation Systems
- Environmental Chambers
- Control Rate Freezers
- IVF and Cell Culture Applications
- Cryogenic Research



551 2200-01-036

## Features

**Combination of Vacuum-Jacket and Insulation** prevent radiant and convective heat transfer  
**Bayonets, Pipe Threads, Compression, and Custom End Fittings** facilitate a range of systems and applications

**Hose Lengths From 3 ft - 30 ft** accommodate a variety of laboratory installation requirements

**Rigid 304 Stainless Steel Pipe** provides rugged durability

**Active Getters** extend service life

**SV-9 Pump-Out Port** ensures continued serviceability

**Swivel End Connectors** maintain leak-tight seals

## Materials and Specifications

**Maximum Pressure:** 160 PSIG (11 BAR)

**Heat Leak:** 0.42 BTU hr/ft (1.1 J hr/mm)

**Inner Core:** 3/8 in ID unbraided stainless steel

**Outer Jacket:** 1.4 in OD braided stainless steel

**Connections:** CGA 295 female flair (both ends)

**Minimum Static Bend Radius:** 5 in

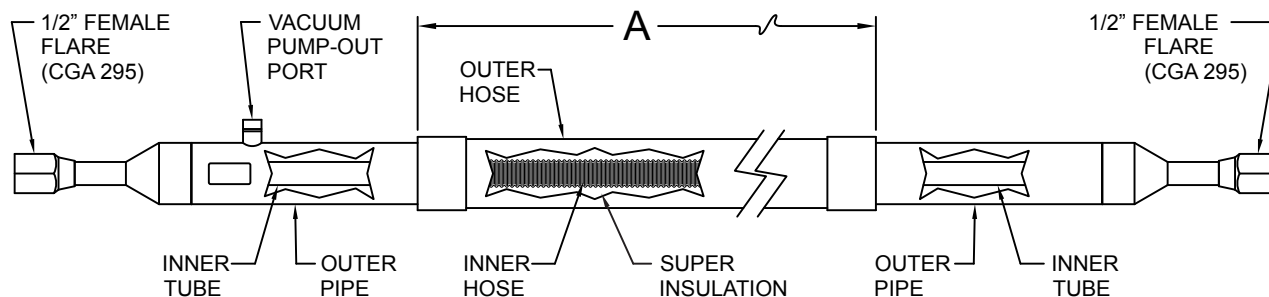
**Pump-out Port:** SV-9

**Helium Leak Integrity:**  $1 \times 10^{-9}$  scc/sec

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## Installation Dimensions



## Ordering Information

Part No.	Description
5512200-01-036	3 ft (0.9 m) Ultra-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-048	4 ft (1.2 m) Ultra-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-060	5 ft (1.5 m) Ultra-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-072	6 ft (1.8 m) Ultra-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-096	8 ft (2.4 m) Ultra-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-120	10 ft (3.0 m) Semi-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-144	12 ft (3.7 m) Semi-flexible Vacuum-jacketed Cryogenic Hose
5512200-01-180	15 ft (4.5 m) Ultra-flexible, Vacuum-Jacketed Cryogenic Hose
5512200-01-240	20 ft (6.1 m) Ultra-flexible, Vacuum-Jacketed Cryogenic Hose
5512200-01-300	25 ft (7.6 m) Ultra-flexible, Vacuum-Jacketed Cryogenic Hose
5512200-01-360	30 ft (9.1 m) Ultra-flexible, Vacuum-Jacketed Cryogenic Hose

## Related Options

Part No.	Description
5500760	Brass Adapter, 1/2 in MNPT x CGA 295
5500763	Stainless Steel Phase Separator, 3/8 in FNPT x 2 in Long
5500764	Stainless Steel 90° Elbow Hose Adapter, CGA 295 x CGA 295
5500765	Brass Separator, 3/8 in MNPT x CGA 295
5500768	Brass Connector CGA 295 Male x Male
5513000-01-295	Stainless Steel Swivel Connection, 8 MNPT x CGA 295 Female
5513001-01-295	Extended Stem Cryogenic Globe Valve, Connections Brass CGA 295 Male Fixed x Stainless Steel CGA 295 Female Swivel
5513003-01-295	Swivel Tee Freezer Accessory, Connections CGA 295 Brass Male Fixed x CGA 295 Stainless Steel Female Swivel
52L Series	Wall-mounted Vent Manifold Kit Designed to Equalize Liquid Cylinder Head Pressure