

551 SERIES SEMI-FLEXIBLE VJ HOSES



The 551 Series Semi-Flexible Vacuum-Jacketed Hose is a rugged, high-performance cryogenic transfer line engineered for seamless integration with the 577 CryoWiz™ cryogenic switchover system and 57V Series cryogenic header. Given liquid nitrogen's extremely low boiling point, even minimal heat exposure can result in rapid boil-off. The 551 Series combats this with a vacuum-jacketed, insulated design that provides a powerful barrier against heat transfer, helping maintain cryogenic temperatures during transfer. For enhanced performance and long-term serviceability, it features an SV-9 pump-out port to preserve vacuum integrity over time. Ideally suited for connecting the primary liquid cylinder source to the CryoWiz™ system, the 551 Series ensures efficient, low-loss delivery and dependable operation.

Typical Applications

- Cryopreservation Systems
- Environmental Chambers
- Controlled Rate Freezers
- Incubation Systems
- LN₂ Storage Freezers
- All Liquid Cryogenics



5512001 shown

Features

Multi-layer Insulation prevents radiant and convective heat transfer

Pump-out Port maintains the vacuum and minimizes liquid nitrogen loss

Brass Plug and Chain on Inlet provides secure closure and prevents contamination

Female Flare Ends allow secure, leak free connections for efficient transfer of cryogenic liquid

Low Helium Leak Rate of 10⁻⁹ scc/sec ensures safety and reliability over extended periods

Materials and Specifications

Max Working Pressure: 1200 PSIG (80 BAR)

Inner Core: 1/2 in braided stainless steel

Outer Jacket: 1 1/4 in ID, braided stainless steel

End Fittings: CGA 295 1/2 in female flare swivel, male plug and chain on inlet

Helium Leak Integrity: 1x10⁻⁹ scc/sec

Evacuation Port: SV-9

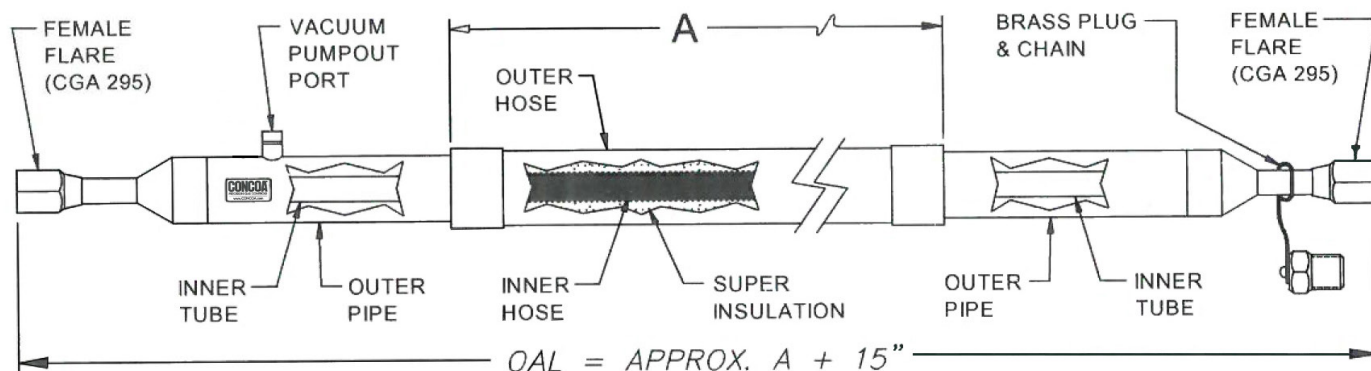
Plug and Chain: Brass

Conformances: Cleaned for oxygen service

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Installation Dimensions



Ordering Information

Part No.	Description
551 2000	3 ft (0.9 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet
551 2001	4 ft (1.2 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet
551 2002	6 ft (1.8 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet
551 2005	5 ft (1.5 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet
551 2015	15 ft (4.5 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet
551 2020	20 ft (6.1 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet
551 2025	25 ft (7.6 m) Semi-flexible Vacuum-jacketed Cryogenic Hose with Plug and Chain on Inlet

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, Brass CGA 295 Male Fixed Connection x Stainless Steel CGA 295 Female Swivel Connection
5513003-01-295	Swivel Tee Freezer Accessory, CGA 295 Brass Male Fixed Connection x CGA 295 Stainless Steel Female Swivel Connection
52L Series	Wall-mounted Vent Manifold Kit Designed to Equalize Liquid Cylinder Head Pressure