

Smart-Hose[®]

TECHNOLOGIES



HIGH PRESSURE Helium HOSE ASSEMBLIES

Smart-Hose[®] Safety System

High Pressure Helium Hose Assemblies:

Integrated valves will instantly stop product flow if a **catastrophic** failure occurs. No human intervention is needed to activate.

When a high pressure helium hose assembly fails, the hose can whip violently resulting in property damage, personnel injury, and even death. The Smart-Hose[®] Safety System can protect your facility and workforce from the potentially devastating consequences associated with high pressure hose failures.

The system is designed to work within high pressure helium hose assemblies with an ETFE post sintered tube for applications requiring lower effusion, typically used for high pressure hydrogen and helium applications.

Features and Benefits

- ✓ Tested under water with CDA or nitrogen to working and test pressure.
- ✓ All high pressure hose assemblies are oxygen cleaned to industry standards.

*No special
installation
required!*

Optional Apparatus

- ✓ CGA connections
- ✓ Scuff Guard ... **and more!**

HOSE DATA

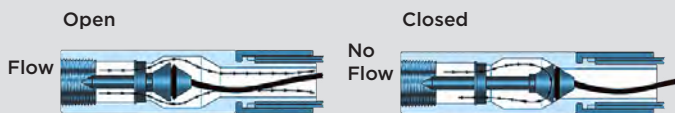


Double Braid

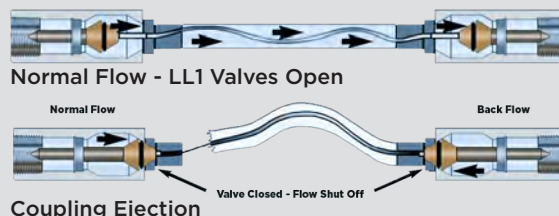
- ... **COVER:** SS Armor available on request
- ... **REINFORCEMENT:** Double Braid 304 SS
- ... **TUBE:** ETFE Post Sintered Tube - for applications requiring low effusion
- ... **ACCESSORIES:** Safety loops; External Cable; Bend Restrictors; CGA; various ends available

LL1

Diameters: ✓ 1/4" ✓ 1/2"



*Recommended for gaseous flow and liquid applications.



***Chart shows sample configurations. Fully customizable solutions are available!**

Hose ID	Working Pressure PSI	Burst Pressure PSI	Smart-Hose End Fittings	End Fitting Weight (lb.)	Smart-Hose Part Number
1/4"	3500	14000	Brass FNPT 316-SS FNPT	0.40	P51-002-17-XXXX-0-00-00 P51-002-11-XXXX-0-00-00
1/2"	4000	16000	Brass FNPT 316-SS FNPT	0.80	P52-004-17-XXXX-0-00-00 P52-004-11-XXXX-0-00-00

NOTE: Serial numbered and shipped with a test certificate and operating booklet. Additional options available upon request.

NAHAD
HOSE SAFETY INSTITUTE
MEMBER

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2026



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Smart-Hose[®]

TECHNOLOGIES



HIGH PRESSURE Hydrogen HOSE ASSEMBLIES

Smart-Hose[®] Safety System

High Pressure Hydrogen Hose Assemblies:

Integrated valves will instantly stop product flow if a **catastrophic** failure occurs. No human intervention is needed to activate.

When a high pressure hydrogen hose assembly fails, the hose can whip violently resulting in property damage, personnel injury, and even death. The Smart-Hose[®] Safety System can protect your facility and workforce from the potentially devastating consequences associated with high pressure hose failures.

The system is designed to work within high pressure hydrogen hose assemblies with an ETFE post sintered tube for applications requiring lower effusion, typically used for high pressure hydrogen and helium applications.

Features and Benefits

- ✓ Tested under water with CDA or nitrogen to working and test pressure.
- ✓ All high pressure hose assemblies are oxygen cleaned to industry standards.

*No special
installation
required!*

Optional Apparatus

- ✓ CGA connections
- ✓ Scuff Guard ... **and more!**

HOSE DATA

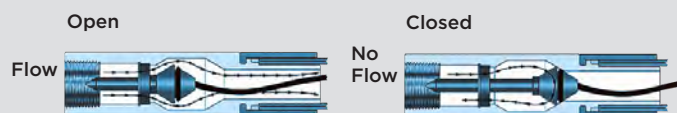


Double Braid

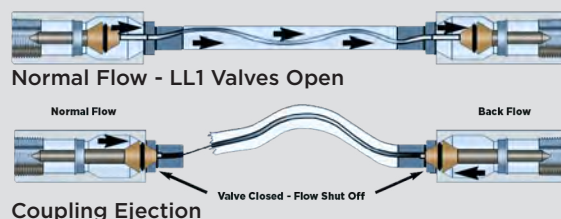
- ... **COVER:** SS Armor available on request
- ... **REINFORCEMENT:** Double Braid 304 SS
- ... **TUBE:** ETFE Post Sintered Tube - for applications requiring low effusion
- ... **ACCESSORIES:** Safety loops; External Cable; Bend Restrictors; CGA; various ends available

LL1

Diameters: ✓ ¼" ✓ ½"



*Recommended for gaseous flow and liquid applications.



***Chart shows sample configurations. Fully customizable solutions are available!**

Hose ID	Working Pressure PSI	Burst Pressure PSI	Smart-Hose End Fittings	End Fitting Weight (lb.)	Smart-Hose Part Number
¼"	3500	14000	Brass FNPT 316-SS FNPT	0.40	P51-002-17-XXXX-0-00-00 P51-002-11-XXXX-0-00-00
½"	4000	16000	Brass FNPT 316-SS FNPT	0.80	P52-004-17-XXXX-0-00-00 P52-004-11-XXXX-0-00-00

NOTE: Serial numbered and shipped with a test certificate and operating booklet. Additional options available upon request.

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