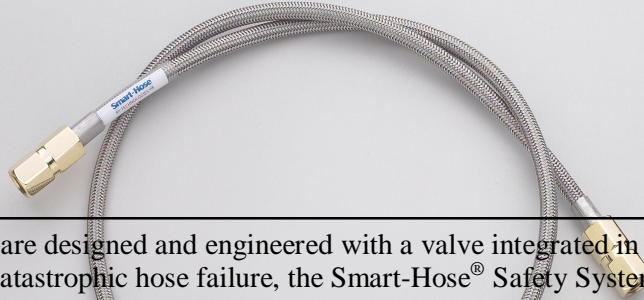


High Pressure Hydrogen Hose Assemblies



Smart-Hose® assemblies are designed and engineered with a valve integrated in each end fitting. If the hose assembly experiences a catastrophic hose failure, the Smart-Hose® Safety System is designed to instantaneously shut off the flow in both directions. Designed as a passive safety device, the Smart-Hose® Safety System needs no human intervention 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 personnel from the potential devastating consequences associated with high pressure hose failures.

The Smart-Hose® Safety System is designed to work within high pressure hydrogen hose assemblies with a ETFE post sintered tube for applications requiring lower effusion, typically used for high pressure hydrogen and helium applications.

- Each hose is tested under water with dry air or nitrogen to working and test pressure
- Each hose is serial numbered
- Each hose is shipped with a Test Certificate and Operating Booklet

Normal Flow—LL1 Valves Open



Coupling Ejection - LL1 Valves Closed



Hose Data

Cover	SS Armor available on request
Reinforcement	Double Braid 304 SS
Tube	ETFE Post Sintered tube (applications requiring low effusion)
Maintenance	See Smart-Hose® Proper Use, Care, and Maintenance Booklet
Accessories	Safety Loops, External Cable, Bend Restrictors, CGA, various ends available

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

* XXXX Represents the overall length of the hose assembly in inches

