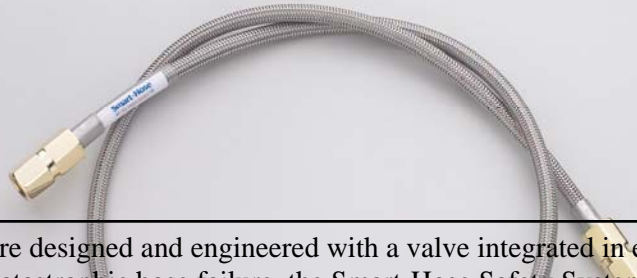


# High Pressure Hydrogen Hose Assemblies



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 tefzel 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

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

Hose ID Inside Diameter	Working Pressure PSI	Burst Pressure PSI	End Fitting	Smart-Hose Part #
1/4"	3500	14000	Brass FNPT	P51-002-17-0000
1/4"	3500	14000	316-SS FNPT	P51-002-11-0000
1/2"	4000	16000	Brass FNPT	P52-004-17-0000
1/2"	4000	16000	316-SS FNPT	P52-004-11-0000
3/4"	4000	16000	316-SS	P52-006-11-0000

