

Ultra High Pressure 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 an ultra high pressure cylinder filling 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 ultra high pressure hose failures.

The Smart-Hose Safety System is designed to work within ultra high pressure industrial hose assemblies with a PTFE tube typically used for ultra high pressure oxygen and inert gas 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
- All ultra high pressure hose assemblies are Oxygen cleaned to industry standards

Normal Flow - LL1 Valves Open



Coupling Ejection - LL1 Valves Closed



Hose Data

Cover	1 aramid braid and 1 high tensile 304 maypole wound Stainless Steel braid
Design	Smoothbore gas quality PTFE tube with aramid braid and high tensile SS 304 braid
Tube	Gas quality smoothbore PTFE tube
Maintenance	See Smart-Hose Proper Use, Care, and Maintenance Booklet
Accessories	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"	6000	24000	Brass FNPT	P17-002-12-0000

