

Smart-Hose™



ENGINEERING DATA

Smart-Hose PTFE Acetylene Hoses with Safety Loops

The World's Safest Hose Assemblies !!

Open Flow (Valves Kept Open By Internal Cable)



Coupling Failure (Valves are closed by separation and/or back pressure)

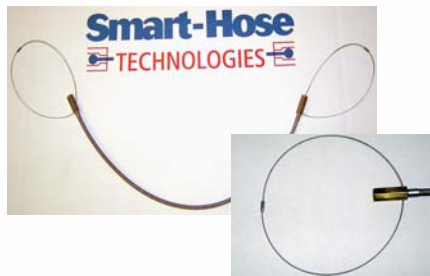


WHAT IS SMART-HOSE™? A Flexible "Safety System" for use in the transfer of high pressure gases and liquids. Protect against the hazardous effects of hose rupture, pull-apart and failure.

All Smart-Hose™ designs, Smart-Hose™ I, Smart-Hose™ I with breakaway, Smart-Hose™ II and Smart-Hose™ III all utilize the unique, patented and patent pending design eliminates the potential for disaster through the use of an internal cable connected to specially designed, normally unseated valve "wedges or plungers" located on each end of the cable. In the event of **hose separation, stretching** to the point of an unsafe condition or **coupling-to-hose separation**, the valve "wedges or plungers" are released and instantly seat **stopping the flow in both directions**.

- Constructed with a patented Teflon® inner liner reinforced with stainless steel wires
- Exhibits a low volumetric expansion /Zero moisture absorption and anti-adhesive characteristics
- Meets all standards of CGA G-1 with low copper content in fittings and two stainless steel snap ring
- Shelf and service life are practically unlimited.
- Hoses are unaffected by fuels, oils, alcohol, coolant, solvents, acid, oxidizers, propellants and most other fluids Chemically inert, non-aging and physically stable.
- Internal Cable made of stainless steel

Designed with Patent Pending Integrated Cable Restraint located on the end of each fitting for simple attachment to the manifold and cylinder valve. The Safety Loop™ provides support for the cylinder and manifold connections helping to minimize the effect of cylinder falling and hose separation.



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