

Smart-Hose™**FLUID SYSTEMS****ENGINEERING DATA**

Smart-Hose Hydrogen Hoses

The World's Safest Hose Assemblies !!

LL1 - 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**.

•Designed specifically for the ultra hazardous applications of high pressure hydrogen gas transfer in tube trailers, facilities and cylinders. Whether you prefer metallic or Tefzel®, the Smart-Hose hydrogen hose is the Smart-Choice™. The inner hose, braid, armor casing cuffs, weld ring, and ends are all stainless steel. Each finished assembly is pneumatically tested to ensure it will withstand the application requirements.

•**Smart-Hose Tefzel® ETFE Lined Stainless Steel Braided Hoses**

Smart-Hose's Tefzel® ETFE inner core has a permeantation rate that is approximately 77% lower than PTFE inner core pigtails. This makes it an ideal choice for helium and hydrogen.

•**Smart-Hose Metallic Lined Stainless Steel Braided Hoses**

Smart-Hose's metallic high pressure hose assemblies are specifically designed to transfer gaseous hydrogen to and from a bulk transport truck to the customer facility.

Metallic Hoses

M22-004-11-60	5' x 1/2" NPT, CONVOLUTED SS METAL LINED, 3500PSI, 14000 BP
M22-004-11-120	10' x 1/2" NPT, CONVOLUTED SS METAL LINED, 3500PSI, 14000 BP
M22-004-11-180	15' x 1/2" NPT, CONVOLUTED SS METAL LINED, 3500PSI, 14000 BP
M22-004-11-240	20' x 1/2" NPT, CONVOLUTED SS METAL LINED, 3500PSI, 14000 BP

Tefzel Hoses

P51-004-17-6	6.0' X 1/2" NPT, TEFZEL LINED, 3500 PSI, 14000 BP
P51-004-17-10	10.0' X 1/2" NPT, TEFZEL LINED, 3500 PSI, 14000 BP
P51-004-17-15	15.0' X 1/2" NPT, TEFZEL LINED, 3500 PSI, 14000 BP

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