

# Smart-Hose™



ENGINEERING DATA

## Smart-Hose Metal Pigtails

**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.

**APPLICATION:** For certain applications, customers choose a metal "bellows-type" pigtail which provides an all welded, zero permeantation and flexible alternative to pipe and tubing, even at cryogenic temperatures. The metal lined pigtail is reinforced with two layers of type 304 stainless steel braid (Monel® braid is optional) and is designed to provide maximum flexibility. In cases where adiabatic compression in PTFE is a concern, Smart-Hose Metallic Pigtails are an excellent solution.

**CONSTRUCTION:** All Smart-Hose convoluted stainless steel inner core, double braided compressed gas hoses are tig welded and come in female NPT or BSP threads.

**MAXIMUM WORKING PRESSURE:** ½" ID-up to 6000 PSI at 70 F.

M05-002-11-24	24" x 1/4" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M05-002-11-32	32" x 1/4" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M05-002-11-36	36" x 1/4" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M05-002-11-48	48" x 1/4" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M05-002-11-60	60" x 1/4" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M05-002-11-72	72" x 1/4" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M22-004-11-60	5' x 1/2" NPT, CONVOLUTED SS METAL LINED, 3500PSI
M22-004-11-120	10' x 1/2" NPT, CONVOLUTED SS METAL LINED, 3500PSI

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