

# Smart-Hose™

## FLUID SYSTEMS

### ENGINEERING DATA

# Smart-Hose Cryogenic Liquid Cylinder Hoses

## 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**.

### CRYOGENIC LIQUID CYLINDER HOSES

- Extremely flexible stainless steel hose is the most durable hose for your cryogenic transfer applications. Machined flare ends and SS hex nuts are standard on these hoses. "The World's Safest Hose Assembly™" can include the highest quality armor casing that will result in extended service life.

### FEATURES

- Unlimited flexibility - makes connection easy, coils up for storage.
- Full armor casing protects hose from abrasion- - very flexible - no broken wires.
- Machined end from bar stock, not tubing, eliminates distortion, cracking and leaks.
- All stainless steel nut won't wear like brass.
- Design protects flare end from damage.
- All stainless steel construction, long life, faster cool-down, durable.
- Low profile corrugations for faster filling, lower pressure drop and less product loss.
- Machined end connections and long collar for extended hose life.
- Hose and adapters can be provided cleaned, capped, and bagged for Oxygen Service.

#### **HOSE STYLES -**

- 1/2" I.D. 1375 psig MAMP
- 3/4" I.D. 800 psig MAMP
- 1" I.D. 600 psig MAMP

#### **OPTIONAL ADAPTERS AND ACCESSORIES**

- Female Pipe x Male Tube (45°)
- Male Pipe (NPT) x Male Tube (45°)
- 90° Elbow Extension
- Safety Tee Assembly
- Phase Separators, T-handles, and wheels

#### **FITTINGS**

- male npt
- female npt
- (CGA295)
- (CGA440)
- (CGA295 elbow)
- (CGA440 elbow)

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