

# Smart-Hose™

## FLUID SYSTEMS

### ENGINEERING DATA

# Smart-Hose Cryogenic Bulk Tank and Truck Loading and Unloading Hoses

## The World's Safest Hose Assemblies !!

LL3 - 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 tough demands of bulk tank and trailer loading and unloading. The inner hose, braid, armor casing cuffs, weld ring, and ends are all stainless steel. Each finished assembly is hydrostatically or pneumatically tested to ensure it will withstand the application requirements.

#### FEATURES

- 1-1/2" or 2" I.D. close pitch corrugated 304 stainless steel inner core.
- Full coverage heavy-duty braid.
- Heavy-duty fully machined female NPT end fittings.
- 18" armor casing cuffs (bend restrictors) each end.
- Cryogenic to 1500 degrees F

#### STYLES

1-1/2" I.D., 560 psi -

2" I.D., 525 psi

Contact us for additional sizes available.

#### FITTINGS

Pipe Butt Weld

JIC Female Swivel

Hex Male NPT

Plain Male NPT

Plain Female NPT

Hex Female NPT

Floating Flange

Weld Neck Flange

CGA 440 for O<sub>2</sub> and 295

for AR and N<sub>2</sub> Service

2536 South 59th Street • Philadelphia, PA 19143

215•730•9000

215•730•0558

877•356•6278

# Phone

# Fax

# Toll-Free