

Smart-Hose™

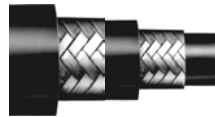
FLUID SYSTEMS

ENGINEERING DATA

Smart-Hose Carbon Dioxide Bulk Liquid Transfer 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**.

The **Smart-Hose Safety System** is built into a special rubber Carbon Dioxide discharge hose. Common uses include in-plant, truck and rail car loading. This low temperature hose has been uniquely developed to meet the rugged requirements of this application. Smooth elastomer inner tube resistant to deterioration from CO₂ and flexible between -65°F and 125° F. Stainless Steel reinforced braid. Pin-pricked outer cover resistant to deterioration from elements and abrasion. Corrosion resistant stainless steel end fittings with stainless steel crimp collar.

FEATURES

- Smooth inner tube elastomer formulated to be resistant to deterioration from CO₂ and maintain flexibility from -65° (-53.9° C) to 125°F (51.7°C) without cracking.
- Reinforcing braid of 300 Series Stainless Steel
- Outer cover resistant to deterioration due to exposure to the elements, oil, and abrasion.
- Fitting material is brass, the crimp collar or ferrule is aluminum.
- All assemblies are hydrostatically tested to 900 psig.
- End of fittings are stamped with month and year of manufacture

	WP	Hose		Coupling		
ID	psi	Wt/Ft	Weight LL	Weight LL3	Part #	
1"	450	.8 lb	2.5 lb		R33008140000	
1.5"	450	1.2 lb		3.4 lb	R33012140000	
2"	450	1.5 lb		4.7 lb	R33016330000	

- COVER:** Black, Special low temperature abrasions resistant co-polymer
- REINFORCEMENT TUBE:** 2 layers of stainless steel wire braid
- BRANDING:** Black, Special low temperature co-polymer resistant to CO₂ permeation, Orange Mylar brand – CO₂ Discharge
- TEMPERATURE:** -65° to 180° F (-55° to 83° C)
- MAINTENANCE:** See Smart-Hose "Proper Use, Care & Maintenance" Booklet Form# 1999-1

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