

# LIFEGUARD SAFETY SYSTEM

## LifeGuard™ Tri-Bolt Breakaway Metallic Dual Service LPG/NH3 Hose



Metallic Hose with Available Exterior Scuff Guard for Long Lasting

The LifeGuard safety system is built into a metallic hose assembly that uses a 316L Stainless Steel Tube and 304 Stainless Steel Reinforced braid. Utilizing a Engineered Compression Spring system with two non-return valves installed within each fitting, we have now included a Tri-Bolt Flange System with three shear bolts on one fitting that separates under acontrolled condition and prevents product loss in the event of an emergency separation. The LifeGuard™ Tri-Bolt Breakaway Hose is designed to separate at any angle when subjected to a designated pull force. In case of separation, its patent pending design assures that not less than two bolts will separate causing the internal valves to engage and the piping to remain intact with flow stopped on both ends of the hose.

### Hose Data Construction:

- T321 and T316L stainless steel hose
- Series 300 stainless steel braid
- Direct braided 1/4" through 2" on reels
- Annular construction

**Sizes:** 1/4" through 3"

**Maximum Working Pressure:** Full vacuum up to 3190 psig depending on size and braid configuration

**Temperature:** Cryogenic to 1250°F

Model of Hose Material: UFBXO Unbraided/  
UFBX1 One Braid/UFBX2 Two Braid

The UFBX product is designed and certified to ISO 10380 specifications.



Transport Applications



Lab Tested



Internal Compression Spring

LifeGuard LPG and NH3	
M30-016-33-222-SG-BR	2" x 18'6" NH3/LPG Dual Service Hose-Hi-break Tri-Bolt Breakaway (female) NPT Safety fitting X standard (female) NPT safety fitting-316L S/S corrugated tube with 304 S/S braid-350 PSI WP-1750 PSI burst -525 PSI test-with special heat bend restrictors and scuff guard

## The **ONLY** US-D.O.T. and OSHA Approved DUAL SERVICE LPG/NH3 Hose

### LifeGuard™ Tri-Bolt Breakaway Stainless Steel Metallic Dual Service LPG/NH3 Hose



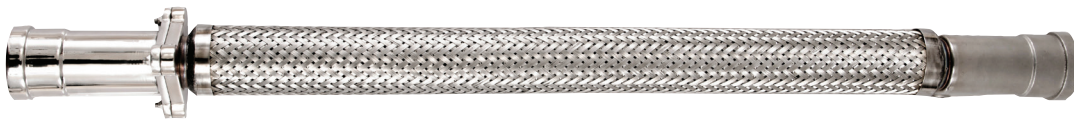
Option Bumper Guard



Lab Tested



Internal Compression Spring



LifeGuard LPG and NH3	
GPS-LP-32-15-F	2" x 15' Lifeguard Rubber Transport Hose, UL-21 LPG with Hi-break Tri-Bolt Breakaway (female) Safety fitting X standard (female) NPT Safety fitting-350 PSI WP-1750 PSI burst-525 PSI test. Electrically conductive
GPS-LP-32-18-F	2" x 18'6" Lifeguard Rubber Transport Hose, UL-21 LPG with Hi-break Tri-Bolt Breakaway (female) NPT Safety fitting X standard (female) NPT Safety fitting-350 PSI WP-1750 PSI burst-525 PSI test. Electrically conductive
GPS-LP-32-20-F	2" x 20' Lifeguard Rubber Transport Hose, UL-21 LPG with Hi-break Tri-Bolt Breakaway (female) NPT Safety fitting X standard (female) NPT Safety Fitting-350 PSI WP-1750 PSI burst-525 PSI test. Electrically conductive
GPS-LP-32-25-F	2" x 25' Lifeguard Rubber Transport Hose, UL-21 LPG with Hi-break Tri-Bolt Breakaway (female) NPT Safety fitting X standard (female) NPT Safety fitting-350 PSI WP-1750 PSI burst-525 PSI test. electrically conductive
GPS-LP-32-30-F	2" x 30' Lifeguard Rubber Transport Hose, UL-21 LPG with Hi-break Tri-Bolt Breakaway (female) NPT safety fitting X standard (female) NPT Safety fitting-350 PSI WP-1750 PSI burst-525 PSI test. Electrically conductive
GPS-NH3-32-18-F	2" x 18'6" Lifeguard Rubber Transport Anhydrous Hose (NH3) with Hi-break Tri-Bolt Breakaway (female) NPT Safety fitting X standard (female) NPT Safety fitting - 350 PSI WP-1750 PSI burst- 525 PSI test. Electrically conductive
M30-016-33-222-SG-BR	2" x 18'6" NH3/LPG Dual Service Hose-Hi-break Tri-Bolt Breakaway (female) NPT Safety fitting X standard (female) NPT safety fitting-316L S/S corrugated tube with 304 S/S braid-350 PSI WP-1750 PSI burst -525 PSI test-with special heat bend restrictors and scuff guard

## Governmental Approval



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

1200 New Jersey Avenue, SE  
Washington, C.C. 20590

In accordance with § 173.315(n)(2), for a cargo tank motor vehicle in other than metered delivery service, there are no specific HMR provisions dictating the material from which a delivery hose must be comprised. However, Pipeline and Hazardous Materials Safety Administration (PHMSA) does specify in § 178.337-9 the requirements (burst pressures, weights, damage protection, free from leaks, etc.) for piping, valves, hoses, and fittings on 331 cargo tanks intended to contain compressed gases. Further, the hose identification, inspection, and testing requirements for a delivery hose assembly on a cargo tanks used to transport liquefied compressed gases are specified in § 180.416 of the HMR, including the rejection criteria in paragraph (g). Additionally, it is the responsibility of the person offering hazardous material for transportation to ensure that the packaging and its appurtenances (piping, valves, hoses, fittings, etc.) are compatible with its lading. [As such the use of the GPSS TRI-BOLT DUAL SERVICE SAFETY HOSE design complies with the above regulations]

**U.S. Department of Labor  
Administration**

**Occupational Safety and Health  
Washington, D.C.  
2210**

1910.111(b)(1)(v)

For the purposes of this paragraph (b)(1), the word “listed” means that equipment is of a kind mentioned in a list which is published by a nationally recognized laboratory which makes periodic inspection of the production of such equipment, and states such equipment meets nationally recognized standards or has been tested and found safe for use in a specified manner. “Labeled” means there is attached to it a label, symbol, or other identifying mark of a nationally recognized testing laboratory which, makes periodic inspections of the production of such equipment, and whose labeling indicates compliance with nationally recognized standards or tests to determine safe use in a specified manner. “Certified” means it has been tested and found by a nationally recognized testing laboratory to meet nationally recognized standards or to be safe for use in a specified manner, or is of a kind whose production is periodically inspected by a nationally recognized testing laboratory, and it bears a label, tag, or other record of certification. [As such the use of the CSA approved GPSS TRI-BOLT DUAL SERVICE SAFETY HOSE design complies with the above regulations]