



LIFEGUARD TECHNOLOGIES

The next generation in safety hoses



Safety Is a Choice You Make, Now You Have More!

LifeGuard Technologies is offering the entire array of conventional and safety hose solutions in all diameters and end connections to the LPG industry, comprising the

1. **LifeGuard Econo-Flex Conventional Hose** utilizing the industry's top LPG hose and available with Acme Couplings;
2. **LifeGuard Econo-Safe Hose with *Smart technology*** that includes our original internal passive safety system used by our industry for 20 years;
3. **LifeGuard Tri-Bolt Breakaway Hose with *Smart technology*** our Passive Safety System that includes our patented breakaway design;

We are now your one-stop for all LPG, NH3 and Dual Service (LPG/NH3) Hose requirements!



LifeGuard Technologies is now offering the entire array of conventional and safety hose solutions in all diameters and end connections to the LPG industry, comprising the **LifeGuard Econo-Flex Conventional Hose** utilizing the industry's top LPG hose, the original safety hose design known as **LifeGuard Econo-Safe Hose with Smart technology** as well as our improved design known as **LifeGuard Tri-Bolt Breakaway Hose with Smart technology**. We are now your one-stop for all hose requirements.

GOOD BETTER BEST



LIFEGUARD ECONOFLEX

1. UL-21 approved,
2. 350 max. WP 1750 min. burst,
3. Tested to DOT requirements;

LIFEGUARD ECONO-SAFE

Safety hose made with the same hose construction as Econo-Flex that addresses

- (1) hose severance during a transfer operation,
- (2) hose assembly rupture during a transfer operation and
- (3) a hose separation from a coupling separation;

LIFEGUARD BREAKAWAY

Safety hose made with the same hose construction as Econo-Flex that addresses

- (1) hose severance during a transfer operation,
- (2) hose assembly rupture during a transfer operation and
- (3) a hose separation from a coupling separation;
- (4) hose separation due to **driveaway through use of integrated breakaway system;**



LIFEGUARD SAFETY SYSTEM



“There’s a safer way to protect against catastrophic hose failure . . .”



Hoses will fail in time...this is an unfortunate truism. The most common types of hose failure are the Drive-Away and the Coupling Separation. How can we truly protect our personnel, facility and the environment from these types of failure?

From the inventors of Smart-Hose comes the next generation in Safety Hose Technology – **the LifeGuard™ Safety Hose.**

The **LifeGuard™ Safety Hose** technology* is designed to eliminate the consequences of the hazardous effect of a drive-away, coupling separation, hose rupture or failure during fluid or gaseous transfer operations...now with two critical new features – a **Tri-Bolt Breakaway Coupling** and an **Engineered Compression Spring (ECP)**. The (ECP’s) axial force can be adjusted to address the flow force of the fluid or gas being transferred within the hose assembly to avoid premature checking. The spring unlike the previous invention, does not distort the inner housing tube and also provides internal construction support to the assembly.

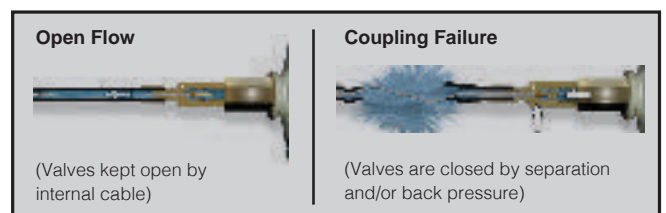
LifeGuard™ Safety Hoses incorporate a coated ECP specifically designed for each applications unique flow and pressure. The ECP is installed within the hose bore and is connected to the seating mechanisms located in the Standard Safety Fitting and the Tri-Bolt Breakaway fitting. This ECP is a compression spring providing carefully engineered thrust in the direction of both ends of the hose, holding the valves open. Should this thrust be eliminated due to a drive-away, coupling separation, hose rupture or failure, the valves release and instantly seat, stopping flow in both directions. In the case of a drive-away, the patent pending Tri-Bolt design assures that two or more bolts will break in any failure mode, causing the system to immediately engage and instantly seat stopping the flow in both directions.

**Patents and international patents pending*

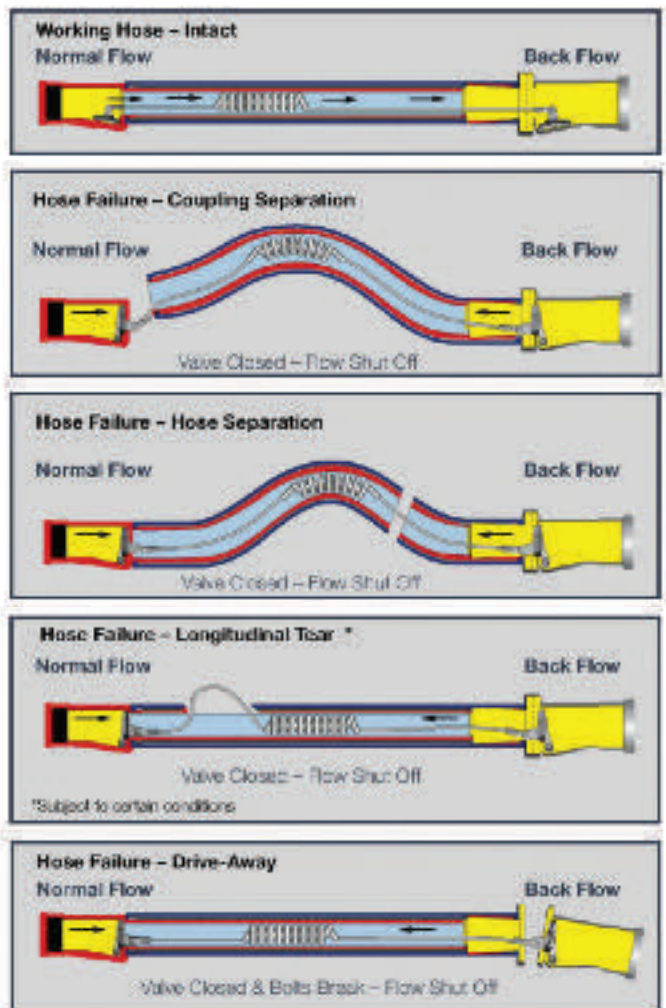
System works with the following hoses:

- Metallic
 - Rubber
 - PTFE
 - Thermal Plastic
- 1/4" up to 8"**

For 1" and smaller



For 1 1/4" and larger



Think smarter . . . Think safer!



LIFEGUARD SAFETYHOSE

Tri-Bolt Breakaway Hose

SUPERIOR DESIGN

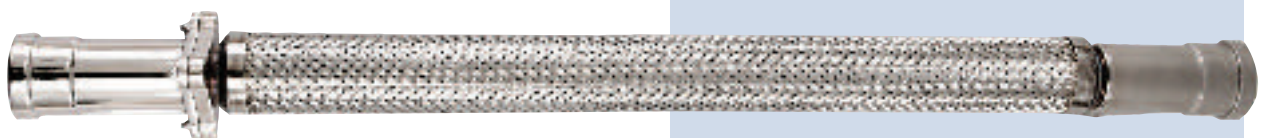
The LifeGuard™ Tri-Bolt Safety-Hose system is the next Generation in Hose Safety.

Shear bolts can be supplied in various sizes and materials to meet specific pressure and load requirements. With use of a rebuild kit, the hose assembly, upon separation, can be reset and returned to operation by one of our authorized assemblers. The LifeGuard™ Tri-Bolt Breakaway Hose is supplied standard in 316L stainless steel. It can also be specified in Alloy 20 and Hastalloy C, with end connections NPT, BSP, ASME flanged, and buttweld. The LifeGuard™ Tri-Bolt Breakaway Hose is a vast improvement from previous systems because this addresses the greatest concern with high loading and off loading but at an economical price.

Unlike other passive devices, this new technology provides the greatest degree of protection in the case of :

- 1) hose separation
- 2) coupling-to-hose separation
- 3) drive-away scenarios

In the past, if the facility or truck's piping systems were not sufficiently strong even a safety or standard hose could literally pull the piping apart. This concern has now been eliminated with the LifeGuard™ Tri-Bolt Breakaway Hose.



New Patent Pending "Accordian Seal™"

We are very excited about this innovative design that now eliminates all leak possibilities unless the hose is catastrophically damaged.

Shear-Tube Design

- 316L SS Conv Tube Welded to both sides of breakaway
- During Driveaway Tube is elongated
- Tube Separates after LifeGuard System is Engaged



LIFEGUARD SAFETY SYSTEM

HYDROGEN HOSES | CRYOGENIC LIQUID CYLINDER HOSES | METAL PIGTAILS | LIFEGUARD COMPRESSED GAS HOSES | CARBON DIOXIDE BULK LIQUID TRANSFER HOSES

LifeGuard® I Fitting Design



LifeGuard I Fitting incorporates an internally coated cable connected to normally unseated “Valve Plungers” located on each end of the cable. In the event of a hose separation, coupling ejection or catastrophic hose failure, the “Valve Plungers” are released and instantly seat, stopping the flow of product in both directions.

- Reduce or eliminate personal injury
- Reduce or eliminate property damage
- Reduce or eliminate cost associated with hazardous spills



Coupling Data LifeGuard I Fitting is recommended for gaseous flow and liquids applications

Chemical Version	All metal parts are 316 stainless steel
High Pressure/Compressed Gas	Parts are 304 stainless steel
Monel Version	All parts are Monel with Hastelloy Snap Ring
Flammable Gas Version	All parts are 316 stainless with brass plug valve
Brass Version	All parts are brass with 316 stainless steel snap ring
O-ring	All couplings use PTFE Teflon unless other material is required

Size	Alloys Offered	End Configurations	Wt. Lbs.*	Length	WP
1/4"	Stainless 304 & 316, Brass	Male & Female NPT, Flanges, Cam Lock	.4 ea.	1.6"	6000 psi
3/8"	Stainless 304 & 316, Brass	Male & Female NPT, Flanges, Cam Lock	.6 ea.	2.2"	6000 psi
1/2"	Monel, Stainless 316, Brass	Male & Female NPT, Flanges, Cam Lock	.8 ea.	2.4"	6000 psi
3/4"	Stainless 316, Brass	Male & Female NPT, Flanges, Cam Lock	1.6 ea.	3.6"	10000 psi
1"	Monel, Stainless 316, Brass	Male & Female NPT, Flanges, Cam Lock	2.5 ea.	4.4"	5000 psi

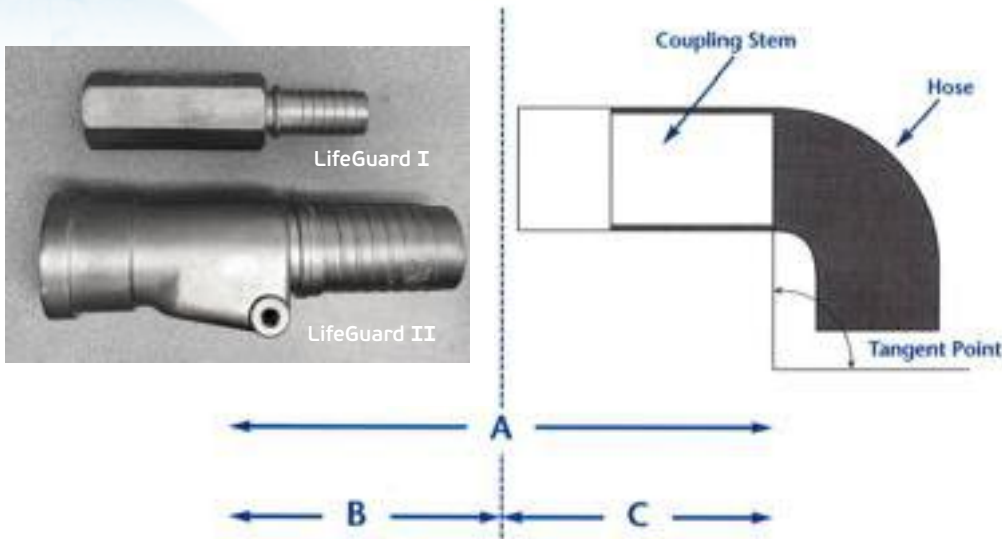
*approximate

All completed hose assemblies are tested with dried air under water to the test pressure of the hose assembly prior to shipment. Each hose assembly comes boxed with test certificate and instruction booklet on Care, Use and Maintenance for LifeGuard Technologies products.

LIFEGUARD SAFETY SYSTEM

HYDROGEN HOSES | CRYOGENIC LIQUID CYLINDER HOSES | METAL PIGTAILS | LIFEGUARD COMPRESSED GAS HOSES | CARBON DIOXIDE BULK LIQUID TRANSFER HOSES

Coupling Data



Coupling ID	Type	A"	B"	C"	Coupling Weigh	Standard End Styles
1/4"	LGI & LGII	2.26	1.60	.665	0.40	NPT Female
3/8"	LGI & LGII	3.50	2.20	1.30	0.60	NPT Female
1/2"	LGI & LGII	4.08	2.40	1.68	0.80	NPT Female
3/4"	LGI & LGII	5.72	3.60	2.12	1.60	NPT Female
1"	LGI & LGII	6.68	4.40	2.28	2.50	NPT Female
1 1/4"	LGI & LGII	8.50	5.42	3.08	2.90	NPT Female
1 1/2"	LGI & LGII	7.82	4.74	3.08	3.40	NPT Male
2"	LGI & LGII	9.28	5.36	3.92	4.70	NPT M or F
3"	LGI & LGII	12.87	8.21	4.66	12.10	NPT M or F
4"	LGI & LGII	14.35	9.10	5.35	20.75	NPT M or F
6"	LGI & LGII	25.30	13.30	12.10	45.43	Flange
10"	LGI & LGII	w/a	w/a	w/a	w/a	Flange

Data subject to change

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LifeGuard® II Fitting Design



LifeGuard II Fitting incorporates an internally coated cable connected to normally unseated “Valve Flapper” located on each end of the cable. In the event of a hose separation, coupling ejection or catastrophic hose failure, the “Valve Flappers” are released and instantly seat, stopping the flow of product in both directions.

- Reduce or eliminate personal injury
- Reduce or eliminate property damage



Coupling Data LifeGuard II Fitting is recommended for gaseous flow and liquids applications

Chemical Version	All metal parts are 316 stainless steel
HCL Version	Hastelloy metal parts
Flammable Gas Version	All parts are 316 stainless
Brass Version	All parts are brass
O-ring	All couplings use PTFE Teflon unless other material is required

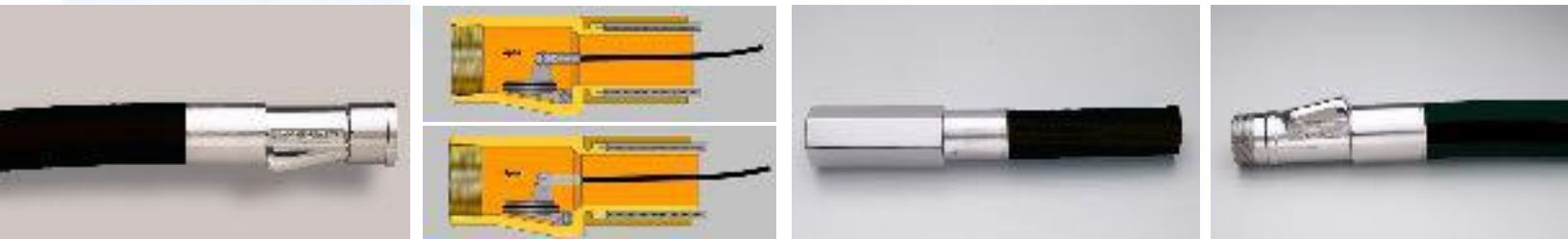
Size	Alloys Offered	End Configurations	Wt. Lbs.*	Length	WP
1 1/2"	Monel, Stainless 316	Male & Female NPT, Flanges, Cam Lock	3.4 ea.	4.74"	1000 psi
2"	Stainless 316, Hastelloy	Male & Female NPT, Flanges, Cam Lock	4.7 ea.	5.36"	1000 psi
3"	Stainless 316	Male & Female NPT, Flanges, Cam Lock	12.1 ea.	8.21"	800 psi
4"	Stainless 316	Male & Female NPT, Flanges, Cam Lock	20.7 ea.	9.1"	800 psi
6"	Stainless 316	Male & Female NPT, Flanges, Cam Lock	61.5 ea.	12.25"	500 psi

*subject to change

All completed hose assemblies are tested with dried air under water to the test pressure of the hose assembly prior to shipment. Each hose assembly comes boxed with test certificate and instruction booklet on Care, Use and Maintenance for LifeGuard Technologies products.

LIFEGUARD ECONO-SAFE

WITH SMART TECHNOLOGY



LifeGuard Econo-Safe Hose assemblies represent the weak-link in all hazardous chemical transfer applications. Hose assemblies can get damaged in day to day operations, fittings can separate from the hose, the hose assembly can be severed during a transfer operation, hose assemblies can rupture during a transfer operation and a pull-away incident can occur. LIFEGUARD® Technologies manufactures engineered hose assemblies that are designed and integrated with a valve in each end fitting. If the hose assembly experiences a catastrophic hose failure the LIFEGUARD® Safety System is designed to instantaneously shut down the flow in both directions. Certified as a passive safety device the LIFEGUARD® Safety System needs no human intervention to activate.

The LifeGuard Econo-Safe LPG Hose Safety System is combined with a heavy duty LPG transfer hose designed to meet the most rugged applications found in the LPG industry. All hose through 3" ID meets UL 21, 4" & 6" are built to BS 4089:1989.

- Each hose is tested under water with dry air or nitrogen to Test Pressure.
- Each hose is serial numbered.
- Each hose comes with Test Certificate & Operating Booklet.
- 316 Stainless Steel couplings are designed for reuse on new hose.
- Hose can be made to meet DOT HM225/446CFR1 73.315
- Each hose meets NFPA 59 and NFPA 58
- Hose can be made to meet (DOT - E 12325 - (Special rail car unloading exemption eliminates requirement for human monitoring during unloading procedure).

Cover Black: CR with Blue Longitudinal Stripe – abrasion & weather resistant

Reinforcement: Multiple layers of Polyester – min. burst 1750 psi

Tube: Oil resistant – resistant to permeation of Butane/Propane

Branding: LPG Hose UL21 Max. WP, Quarterly/Year, Made in USA.

Temperature: -40°F to 180°F

Maintenance: See LifeGuard Safety-Hose Proper Use, Care, and Maintenance Booklet – 2009

ID	WP	Hose	Coupling		Part #
	psi	Wt/Ft	Weight - plunger	Weight - flapper	
1/2"	350	.65 lb	.8 lb		LES-LP-08-XX
3/4"	350	.8 lb	1.6 lb		LES-LP-12-XX
1"	350	1 lb	2.5 lb		LES-LP-16-XX
1 1/4"	350	1.2 lb	2.9 lb		LES-LP-20-XX
1 1/2"	350	1.4 lb		3.4 lb	LES-LP-24-XX
2"	350	1.77 lb		4.7	LES-LP-32-XX

LIFEGUARD SAFETY SYSTEM

LIFEGUARD BREAKAWAY WITH SMART TECHNOLOGY

Tri-Bolt Bulkhead Breakaway Units

- A unique need for LifeGuard™ Tri-Bolt Bulkhead Breakaway Unit is for Bulk Installations in which piping systems are not protected from being pulled apart by standard or Safety Hoses.
- The LifeGuard™ Tri-Bolt Bulkhead Breakaway Unit is designed to increase the safety of your hose and facility by incorporating protection against the unintended pull-away of tank trucks, railcars, barges and ships.
- 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 a controlled condition and prevents product loss in the event of an emergency separation.
- The LifeGuard™ Tri-Bolt Bulkhead Breakaway Unit 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.



GPS-BBB-LP-32-4	2" x 4', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-5	2" x 5', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-6	2" x 6', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-7	2" x 7', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-8	2" x 8', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-9	2" x 9', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-10	2" x 10', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-11	2" x 11', LifeGuard Tri-Bolt Bulkhead Breakaway
GPS-BBB-LP-32-12	2" x 12', LifeGuard Tri-Bolt Bulkhead Breakaway

LIFEGUARD SAFETY SYSTEM

HYDROGEN HOSES | CRYOGENIC LIQUID CYLINDER HOSES | METAL PIGTAILS | LIFEGUARD COMPRESSED GAS HOSES | CARBON DIOXIDE BULK LIQUID TRANSFER HOSES



LPG Facility Loading Hoses

The LifeGuard™ Tri-Bolt Breakaway Hose is designed to increase the safety of your hose and facility by incorporating protection against the unintended pull-away of tank trucks, railcars, barges and ships. 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 a controlled 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.



Cover Black: CR with Blue Longitudinal Stripe – abrasion & weather resistant

Reinforcement: Multiple layers of Polyester – min. burst 1750 psi

Tube: Oil resistant – resistant to permeation of Butane/Propane

Branding: LPG Hose UL21 Max. WP, Quarterly/Year, Made in USA.

Temperature: -40°F to 180°F

Maintenance: See LifeGuard Safety-Hose Proper Use, Care, and Maintenance Booklet – 2009

LifeGuard™ Tri-Bolt Breakaway LPG Hoses – 3"

GPS-LP-22-15-F	3" 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-22-18-F	3" 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-22-20-F	3" 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-22-25-F	3" 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-22-30-F	3" 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

LIFEGUARD SAFETY SYSTEM

LIFEGUARD BREAKAWAY

WITH SMART TECHNOLOGY

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



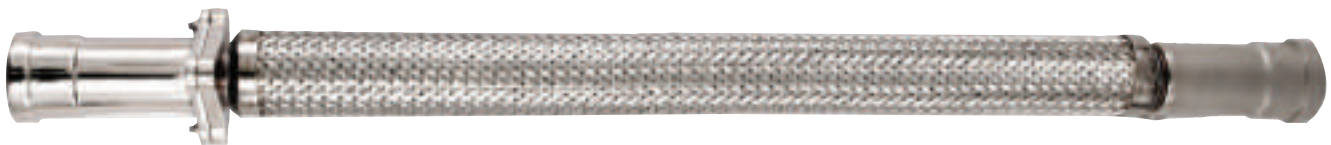
Option Bumper Guard



Lab Tested



Internal Compression Spring



LifeGuard LPG and NH3	
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

LIFEGUARD SAFETY SYSTEM

LIFEGUARD BREAKAWAY

WITH SMART TECHNOLOGY

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 a controlled 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



LIFEGUARD™ SAFETY SYSTEM

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



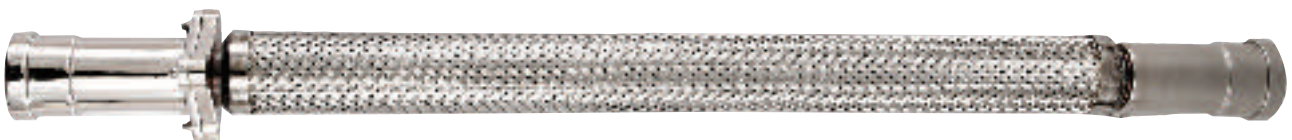
Option Bumper Guard




Lab Tested



Internal Compression Spring



LifeGuard LPG and NH3	
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



LIFEGUARD SAFETY SYSTEM

Governmental Approval



**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 SAFTY 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)

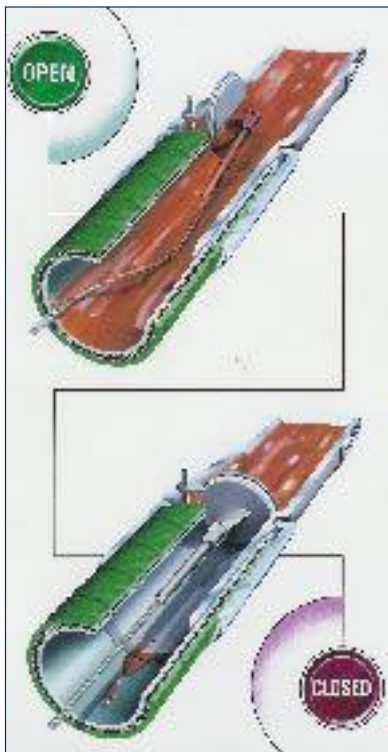
For the purposes of this paragraph (b)(1), the word “listed” means that equipment is of a kind mentioned in a list which is published by a nationally recognized laboratory which makes periodic inspection of the production of such equipment, and states such equipment meets nationally recognized standards 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 SAFTY HOSE design complies with the above regulations]

LIFEGUARD™ SAFETY SYSTEM

LifeGuard™ Tri-Bolt Breakaway Rubber Textile NH3 Hoses

The **LifeGuard™ Tri-Bolt Breakaway Hose** is designed to increase the safety of your hose and facility by incorporating protection against the unintended pull-away of tank trucks, railcars, barges and ships. 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 a controlled 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.



Cover: Black EPDM with Green stripe – abrasion & weather resistant

Reinforcement: Multi layers of nylon – min. burst 1750 psi

Tube: High grade permeation resistant EPDM rubber

Branding: Anhydrous Ammonia Hose Max. WP 350

Temperature -40°F to +180°F (-40°C to +82°C)

Maintenance: See LifeGuard Safety-Hose Proper Use, Care, and Maintenance

Booklet – 2009

All Hoses comply with DOT 49 CFR 173.315 Passive Device Regulations

ID	WP	Hose Wt/Ft	Coupling		Part #
	psi		Weight - plunger	Weight - flapper	
1"	350	.8 lb	1.6 lb		NH306006160000-tx
1 1/4"	350	1 lb	2.5 lb		NH306008160000-tx
1 1/2"	350	1.2 lb	2.9 lb		NH306010140000-tx
2"	350	1.4 lb		3.4 lb	NH306012320000-tx
2"	350	1.77 lb		4.7 lb	NH306016330000-tx



LifeGuard™ Econo-Flex Rubber Cargo Tank and Facility LPG Hoses

Where Price, Quality and Service Unite!





LifeGuard™ Econo-Flex Rubber Cargo Tank and Facility LPG Hoses

Where Price, Quality and Service Unite!

LIFEGUARD ECONOFLEX (Conventional) LPG HOSE ASSEMBLIES are made from large diameter, flexible liquefied petroleum gas (LPG)/propane transfer hose for large volume bulk loading/unloading and vibration-resistant onboard vehicle connections. The hose meets all Underwriters Laboratories (UL21) and Canadian Gas Association (CGA Type I) requirements. The construction incorporates multiple braids of textile reinforcement for kink resistance and superior coupling retention. The perforated cover is resistant to mild chemicals, oil and ozone. Our assemblies are available in long lengths and factory-tested assemblies in popular configurations.

PERFORMANCE CHARACTERISTICS	
TUBE	BLACK NITRILE
REINFORCEMENT	MULTIPLE TEXTILE BRAIDS
COVER	BLACK CHLOROPRENE; PERFORATED WRAPPED FINISH
TEMP. RANGE	-40°F TO +180°F (-40°C TO +82°C) (THE HOSE CONSTRUCTION IS CAPABLE OF THIS RATING, BUT LP GAS SHOULD NEVER BE CONVEYED OVER 140°F/60°C)
BRAND METHOD	SIDE ONE: EMBOSSED SIDE TWO: YELLOW ON BLUE STRIPE
BRAND EXAMPLE	SIDE ONE (EMBOSSED): CGA TYPE I CAUTION - LP GAS HOSE MH6737 C UR® US ISSUE NO. XXXX 350 PSI MAX WP MADE IN USA (DATE CODE) SIDE TWO (STRIPE): PARKER LP GAS HOSE
DESIGN FACTOR	5:1
INDUSTRY STANDARDS	UL21; CAN/CGA-8.1-M86 TYPE I; OPTIONAL DOT FACTORY HOSE ASSEMBLY TESTING AND MARKING AVAILABLE.
APPLICATIONS	LP GAS/PROPANE. BULK LOADING/UNLOADING, IN-PLANT TANK TRANSFER, TRANSPORT. AGRICULTURE, COMMERCIAL AND RESIDENTIAL HEATING, CONSTRUCTION, GENERAL INDUSTRIAL
VACUUM	NOT RECOMMENDED
COMPARE TO	PARKER SERIES 7232 (LPG); GATES LP350; THERMOID TYPE 65
PACKAGING	BOXED

GPS-LP-32-10-AXA	2" X 10' LIFEGUARD ECONOFLEX RUBBER TRANSPORT HOSE, UL-21 LPG with Acme Connections -350 Psi Wp-1750 Psi Burst-525 Psi Test. Electrically Conductive
GPS-LP-32-15-AXA	2" X 15' LIFEGUARD ECONOFLEX RUBBER TRANSPORT HOSE, UL-21 LPG with Acme Connections -350 Psi Wp-1750 Psi Burst-525 Psi Test. Electrically Conductive
GPS-LP-32-18-AXA	2" X 18'6" LIFEGUARD ECONOFLEX RUBBER TRANSPORT HOSE, UL-21 LPG with Acme Connections -350 Psi Wp-1750 Psi Burst-525 Psi Test. Electrically Conductive
GPS-LP-32-20-AXA	2" X 20' LIFEGUARD ECONOFLEX RUBBER TRANSPORT HOSE, UL-21 LPG with Acme Connections -350 Psi Wp-1750 Psi Burst-525 Psi Test. Electrically Conductive
<p>*Other lengths available upon request. *Hose assemblies complete with 3 1/6" Acme Connections (Brass nut-Steel Nipple) on each end. *Call for special pricing.</p>	



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