

# Pull-Away Hose Assembly Tanker Loading

## A SAFER SYSTEM

Pull-Away Coupling



LPG Propane Hose



DGC Coupling



Tank Unit

Parking Adapter



# LPG HOSE AND PULL - AWAY FEATURES AND TECHNICAL INFORMATION

The transfer of Propane from tanker to terminal is a common procedure, and when done with care and controlled practices, is usually a safe and simple process. Although there are drive-away prevention systems designed into the tanker to stop it from rolling away during the transfer process, “drive-off” events can occur.

In such “drive-off” events, a hose pull-away assembly is a safe and effective way to control the separation of the hose between the pressure vessels. It minimizes harm to surrounding personnel and equipment and also limits propane release to the atmosphere.

The Elaflex Pull-Away System is designed to:

- Increase Safety
- Reduce Costs
- Better Handling



The Elaflex pull-away assembly works on a simple system consisting of:

1. Elaflex LPG UL and CSA listed hose assembly, and
2. our Safety Break Coupling (Pull-Away).

This system provides the following features and benefits over existing systems:

## Safety

- Propane is contained within the hose and Pull-Away after drive-off event.
- Limits the release of gas into the atmosphere to  $<2\text{ cm}^3$ .
  - Less than a bobtail filling gun.
- Low gas loss minimizes the explosion zone after drive-off event.
- Protects operator, equipment and the environment.

## Better Handling

- Uses a more flexible and durable hose assembly.

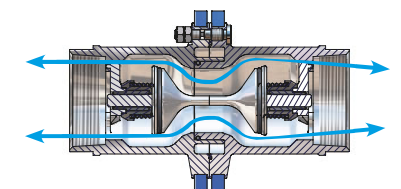
## Reduces Costs

- The hose does not rupture and can be reused.
  - Unless a visual inspection identifies other damages from drive off event.
- Only the shear pins in the Pull-away must be replaced.
- This replacement can be done on site once the system is purged in a safe manner.
- Minimizes downtime.

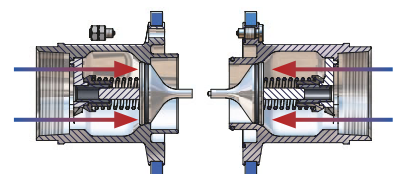
## How it Works

The connected pull-away is designed with a diverted breaking point which will break at a calculated break-load where upon the internal valves will automatically close on both sides.

This means that only a small amount of gas is released during the pull-away separation, the hose contents will not be released to atmosphere and will remain in the hose.



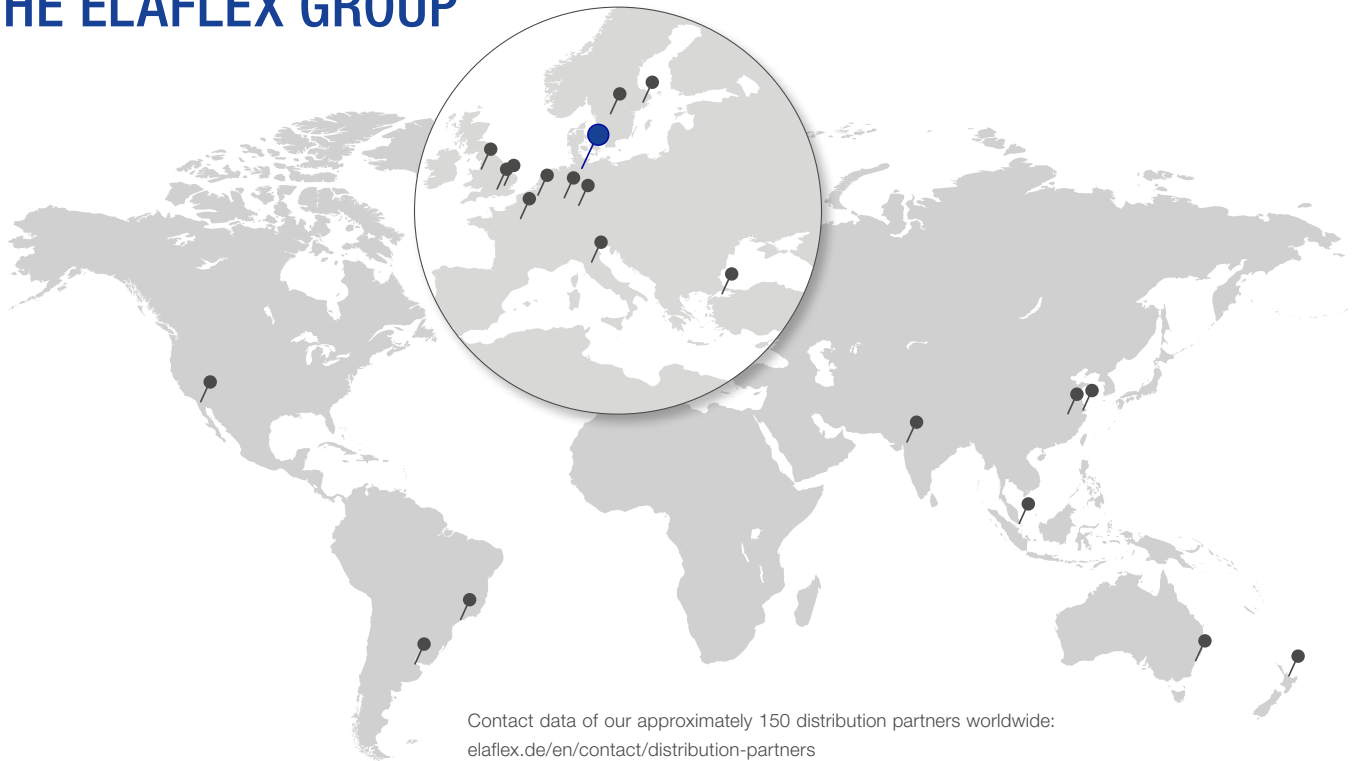
The coupling consists of two halves, each with a valve.



After an emergency disconnection the coupling separates and both valves close immediately.

As the pull-away is designed to separate via specially engineered shear bolts, after a separation occurs the contents of the hose and bulk head can be drained (in a controlled manner) and pull-away can be re-assembled on site, via a new set of shear bolts.

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