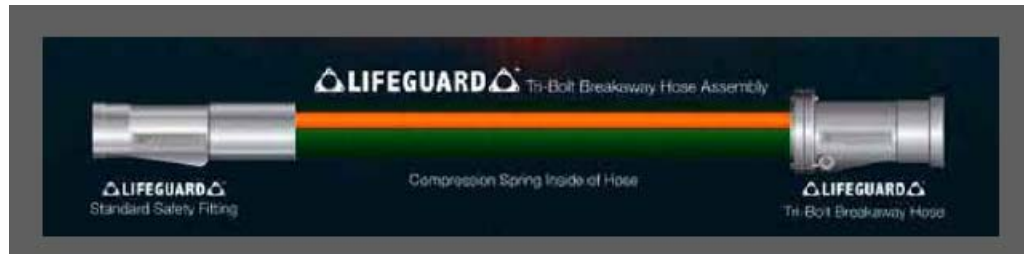
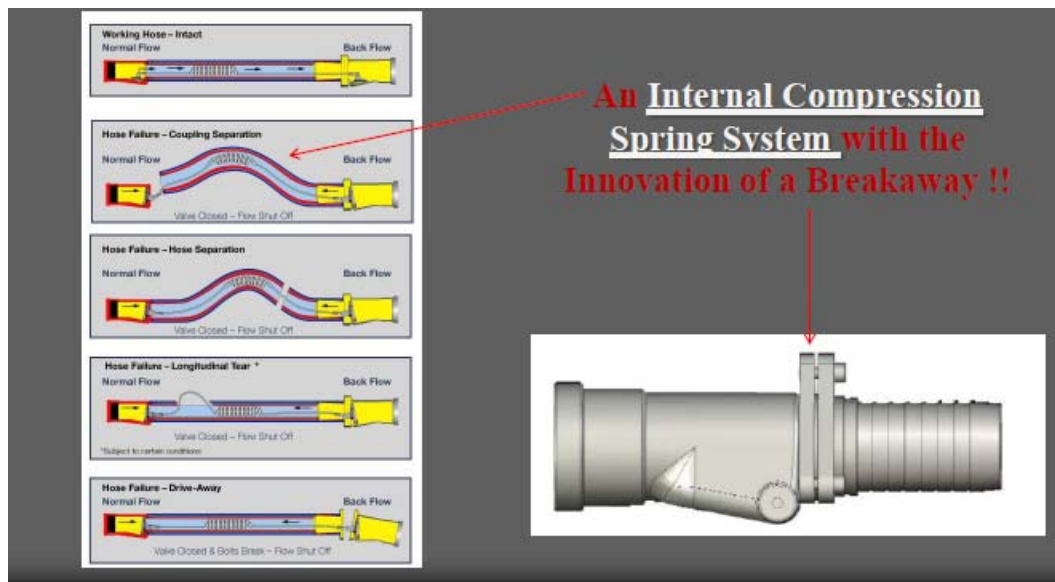




THE NEXT GENERATION OF SAFETY HOSE TECHNOLOGY



The innovative, patent pending (3 international patents filed), Lifeguard™ system uses an internal compression spring and flapper style shut-off valves on both ends similar to Smart Hose, but with two primary advantages:



1. ECP (Engineered compression spring): a coated compression spring installed in the hose bore. The features and benefits of this spring include:



- adjusted to the flow force to avoid nuisance closures
- prevents distortion of the inner housing tube
- allows for greater hose flexibility
- provides internal construction support



- helps prevent hose kinking





2. Tri-Bolt Breakaway Coupling: a *triangular* 3 bolt separation coupling installed on the inlet side of the hose. The feature and benefits include:

Key Components

- Two Specially Designed Tri-Bolt Flanges
- Specially Designed Shear Bolts Made from Eng. Alloy
- Two Specially Designed Nuts and Lock Washers to Insure Permanent Attachment

- Increases safety by providing a control shear point



- – *Specially designed shear bolts made from a special stainless steel alloy*



- Reduces product loss in the event of pull-away
- Separates at any angle of pull, stopping the flow in both directions
- Bolts shear at 2100 lbs of straight axial pull force *they also separate at 1400 psi of hydrostatic pressure* – see test graph attached and photo of test below



- Larger bore diameter reduces flow restriction to less than 4%
- The plant facility hose simplifies bulk piping piping by providing a controlled break point



- Total coupling end weight is less than **6.5** lbs

All models are UL listed and the truck hose systems are certified and DOT approved.