Minimising the risk of liquid and gas spillage

The catastrophic consequences of spillage
When fitting a Safety Breakaway Coupling you ensure that everything has been done to eliminate risk and mitigate legal action.

The Safety Breakaway Coupling range offers a safe and identifiable parting point within the transfer system and will stop flow in an emergency such as a drive-off or other strain on the transfer system.

The experience and track-record of Safety Breakaway Coupling enables you to minimise risk to assets, personnel, the environment and reputation and protect against downtime and clean-up costs, litigation and injury.

“Fitting a Breakaway Coupling means you have ensured that everything has been done to eliminate risk and mitigate legal action.”

Loading Arm and hose transfer applications

Safety Breakaway Coupling: Bunkering, Refuelling, Railcar, Road Tanker and Loading Arm systems involved in the transfer of media.

Typical media applications:
- LPG
- Ethanol
- Propane
- Bitumen
- Hydrochloric Acids
- Chlorine
- Diesel
- Fuel oil
- Ammonia
- Sulphuric Acid
- Jet Fuel

Safety Breakaway Coupling are suitable for 99% of all liquids and gases.
The benefits of Safety Breakaway Couplings

**Avoiding the consequences of partial break**
This design eliminates the potentially hazardous scenario called ‘Partial Break’, which can be experienced with low technology poppet valve designed products.

Partial Break is when the coupling has been partially parted but not fully separated. This is due to the applied force being prematurely removed (e.g. due to an operator beginning to move the vehicle and then realising they have not disconnected, thus stopping).

The unit ensures that under no circumstances can the seal between the two coupling body halves open to the atmosphere, before the internal flap valves have been released and provide a 100% shut off.

**Flip-Flap Valve technology**

Sequential Closure using Breakstud release technology

1. Internal flaps are positioned in line with the flow. These keep each other open, offering minimum headloss.

2. As the unit begins to separate, the discs flip through a controlled arc.

3. The discs continue to rotate until they have moved through 90 degrees.

4. The discs snap onto their seats, providing 100% shut-off.