

# Safety Break-away Couplings

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## **Safety Break-away Couplings**

Safety Break-away couplings are used to prevent pull away accidents, protect terminal and loading/unloading equipment and eliminate unwanted product release. The break-away coupling has a designed break-load where upon the internal valves will automatically close on both sides. This minimises down time, saves money, equipment replacement, and the environment.

The Safety Break-away couplings are available as Industrial and Marine type.

## **Industrial Break-away**

Typically installed into loading arm and hose assemblies, where at least one side of the coupling is attached to a rig and fixed point.

## **Marine Break-away**

Marine Safety Break-aways are designed to only release by inline pull and used between two strings of hose.

S1077 Datasheet

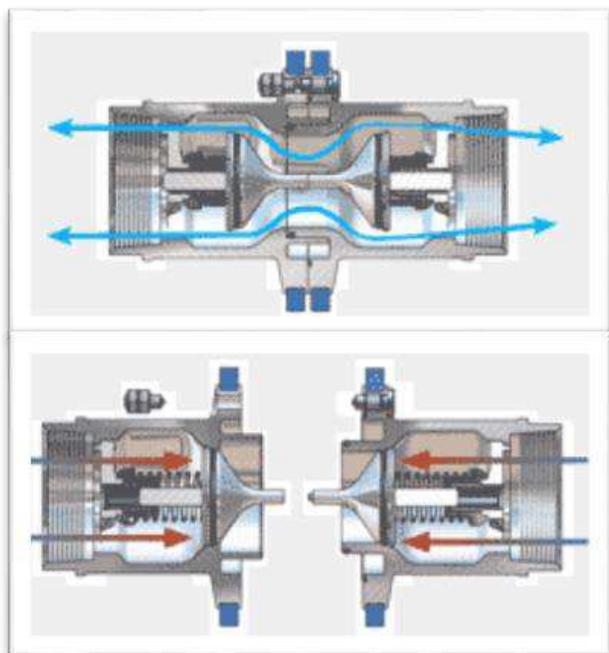
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## How it works - Before and After Emergency Disconnect

In the event of an accidental drive-away, the external shear bolts are designed to break under excess tension. The internal valves on both sides of the coupling will automatically close, preventing fluids escaping. The coupling can be reused after fitting new shear bolts.



### Before emergency disconnect

The safety break-away valve consists of two halves, each with a spring loaded valve that has an O-ring seal inside. The efficient bore design ensures low pressure drop.

### After emergency disconnect

When the SBCouplings separate, the spring loaded valves close rapidly, eliminating spills and leaks onto personnel and into the environment.

### Technical data:

Coupling Material	Standard Break Force	Operating Temp.
Aluminium 2in - 8in	9kN - 96kN	-40c to 150c
Stainless Steel 1in - 12in	4.8kN - 217kN	-40c to 250c

### Connections

BSP, NPT, Thread, Flange, Victaulic

### Applications

SBCouplings are recommended for applications including rail tankers, marine tankers, ISO containers, Aviation fuel bunkering and related activities or on any application where product contamination and spillage needs to be eliminated.

### Seal Options

O-ring Standard seals in FKM Viton®. Options include PTFE, EPDM, Chemraz®, Kalrez®, NBR (Nitrile).

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INDUSTRIAL FLOW CONTROL LTD, 3 RYDER WAY, BASILDON, ESSEX, SS13 1QH, UK

T: +44 1268 596900 E: sales@ifcinflow.com