

DRIPLEX INDUSTRIAL BREAKAWAY COUPLINGS

DRIPLEX industrial emergency breakaway couplings are designed to enhance the safety of transfer installations equipped with loading arms or flexible hoses.

In the event of excessive load caused by an uncontrolled vehicle drive-away or a sudden pull on the hose, the breakaway coupling acts as a controlled weak point in the system. It separates before the hose or loading arm is damaged, while simultaneously shutting off the flow of the medium.

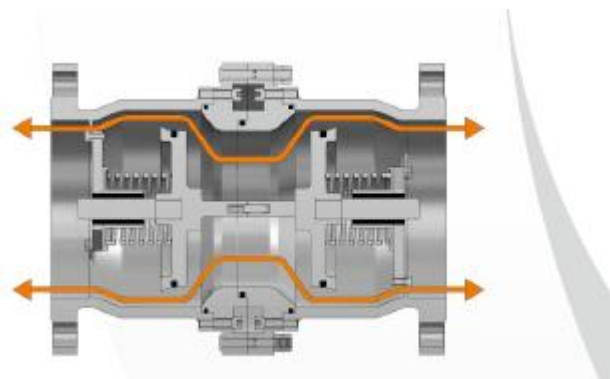
This solution reduces the risk of leakage, damage to the installation and serious incidents during loading and unloading operations.

The couplings provide excellent flow characteristics, are easy to operate, lightweight and compact in design.

Technical data

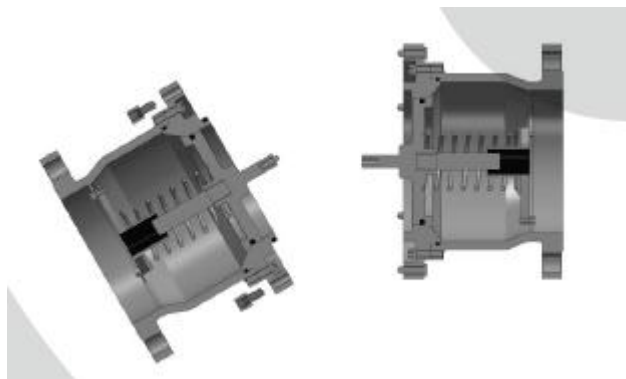
Parameter	Value
Size range	1" to 12"
Coupling material	Stainless steel, aluminium, Hastelloy or any other material on request
Seals	FKM (Viton®), NBR (Nitrile), EPDM or any other fluoroelastomer material on request
End connection	Threaded – BSP, NPT, ISO; flanged - ANSI, ASME, ISO, DIN, TTMA
Working pressure	up to 40 bar
Temperature range	-20 °C to 150 °C; variants extending the temperature range down to -50 °C are available

Normal operating conditions



The coupling consists of two halves, each fitted with a valve (piston) that remains in the open position, allowing the medium to flow.

Behaviour during an incident



When a sudden excessive load occurs, exceeding the calculated strength limit of the breakaway bolts, as a result of pulling or vehicle drive-away, the breakaway bolts shear.

Once activated, the coupling separates into two halves and the valves (pistons) close immediately under spring force. This stops the flow of the medium and prevents spillage.

After activation, the coupling can be reassembled using a repair kit.