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Dixon® MannTek Safety Breakaway Couplings – Marine Version

Application
- Typically for ship-to-offshore platform and ship-to-ship product transfer operations

Features
- Designed to be installed within a hose string where the coupling will have a length of hose attached to both sides
- Minimizes spillage and damage associated with pull-away incidents. Release by inline pull only
- Coupling automatically senses excessive load, closes the valves and disconnects. Release is executed when force causes bolts to break
- FKM (FPM) O-rings, additional seal materials are available
- Optional non-closure design available; contact Dixon

Specification
- Working pressure: **360 PSI** at ambient temperature **70°F (21°C)**

Female NPT and Female NPT

Size	DN Size	316 Stainless Steel Part #
2"	50	MSBC200SS
3"	80	MSBC300SS
4"	100	MSBC400SS
5"	125	MSBC500SS
6"	150	MSBC600SS

Male NPT and Male NPT

Size	DN Size	316 Stainless Steel Part #
2"	50	MSBC200SSMNPT
3"	80	MSBC300SSMNPT
4"	100	MSBC400SSMNPT
5"	125	MSBC500SSMNPT
6"	150	MSBC600SSMNPT

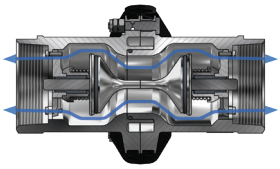
150# Flange and 150 Flange

Size	DN Size	316 Stainless Steel Part #
2"	50	MSBC200SSFL
3"	80	MSBC300SSFL
4"	100	MSBC400SSFL
5"	125	MSBC500SSFL
6"	150	MSBC600SSFL
8"	200	MSBC800SSFL

NOTE: For flange dimensions, diagrams, and additional information, please reference dixonvalve.com.

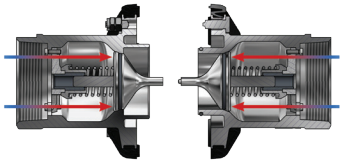
How it Works

Safety breakaway couplings have three external break bolts. In the case of axial tension, all of the bolts take up the force corresponding to the break force on the hose with a safety margin. Non-axial forces concentrate the tension forces more strongly on one bolt, so that the safety breakaway coupling reacts in a natural way to the reduction of the hose break forces.



BEFORE emergency disconnect

The safety breakaway valve consists of two halves, each with a valve that has a O-ring seal.



AFTER emergency disconnect

When the safety breakaway couplings separate, it allows the valves to close. The two valves close rapidly, minimizing exposure to personnel and the environment.