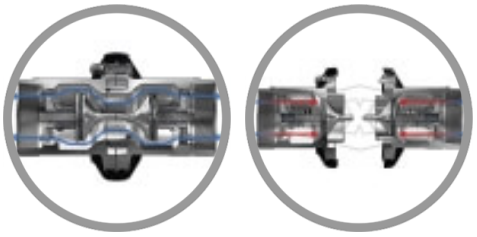
MANNTEK SAFETY BREAK-AWAY COUPLING MARINE FEMALE NPT





** Referential image*
*** Some features may vary without prior notice. Sale subject to inventory availability*

DATE
: 11/23/2026 11:37 PM

SKU
: 16788

BRAND
: DIXON VALVE

MODEL
: MSBC500SS

Applications:
Coupling is designed to minimize spillage and damage associated with pull away incidents.
Typically used in 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
Coupling automatically senses an excessive load, closes the valves and disconnects
Release is executed when force causes bolts to break

Construction:
316 Stainless Steel body
FKM O-rings

Available Options:
Also available in 150# Flange BSP thread, DN Flange, 300# ASA Flange, Grooved Ends or any combination thereof. Consult Dixon for more information.
Optional Non-closure Design available, consult Dixon for more information. The non-closure design is an economical alternative which allows the coupling to break away due to pull-away/drive-away incidents thus protecting piping systems and equipment. The design allows spillage of product in these instances due to the lack of valving in the coupling. Useful applications where non-hazardous product is being conveyed and where there are no environmental concerns.

How it works:
The safety break-away valve consists of two halves, each with a valve that

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has an O-ring seal. When the safety break-away couplings separate, it allows the valves to close. The two valves close rapidly, minimizing exposure to personnel and the environment.

Safety break-away 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.

Safety notes:

WARNING: Cancer and Reproductive Harm- www.P65Warnings.ca.gov

TECHNICAL SPECIFICATIONS

DN Size	125.0
Factory Part Number	MSBC500SS
Flow	1100 GPM (4154 LPM)
Length	14" (356mm)
Material	316 Stainless Steel
Seal	FKM (FPM)
Size	5"
Weight Lb	68.0000
Width	10.6" (269mm)
Working Pressure	360 PSI at 70°F (21°C)

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