



**DRIPLEX**  
ENGITECH

## Technical Data Sheet

### Breakaway Couplings

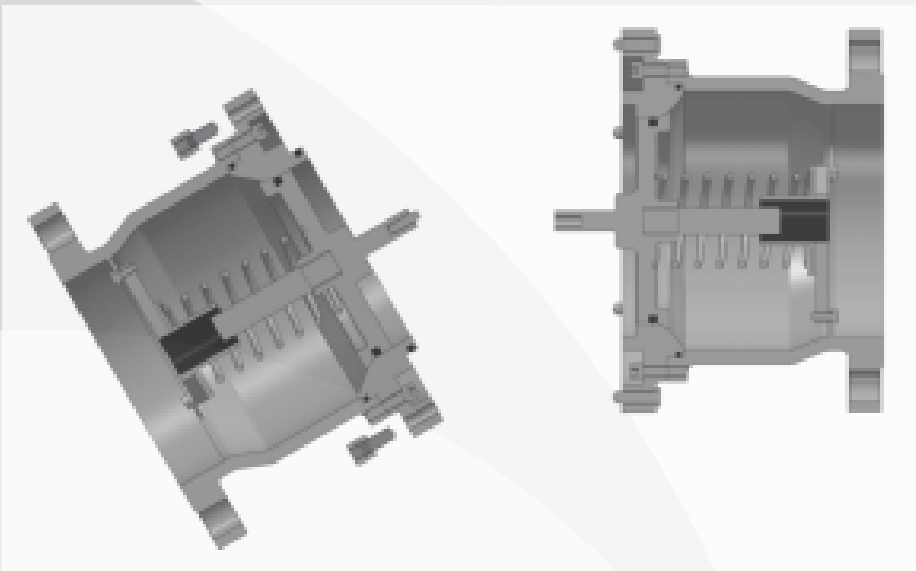
These are specially designed couplings for preventing spillage and damage during drive away or pull away incidents when loading & unloading of hazardous liquids takes place. These couplings are designed to be the weakest link in the hose line or loading arm, so that if there are any sudden and strong tensile loads occurs, these couplings will be detached and quickly close the two open halves automatically to prevent the spillage.

### Product Range

Driplex Breakaway couplings are available in Industrial & Marine version:

#### Industrial Version

This version installed between a hose assembly or loading arm and a fixed point (e. g. pipe connection). It can be separate at an angle up to 90 degrees with respect to the plane of the coupling.

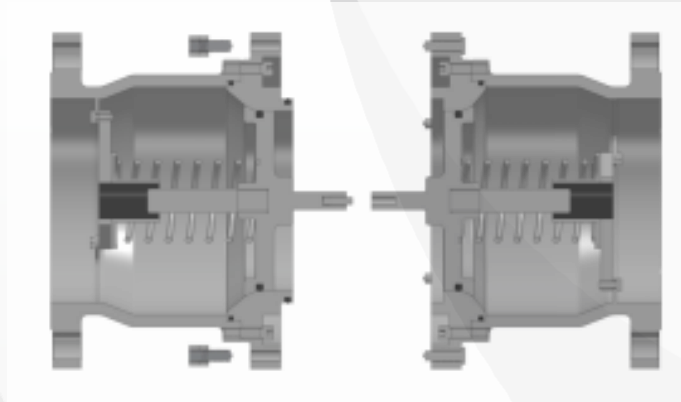




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## Marine Version

This version installed between two hose assemblies where Separation of two halves occur only in axial pull condition.



### Size Range

Industrial Breakaways : 1 inch to 12 inch

Marine Breakaways : 1 inch to 4 inch

### Seals

FKM, NBR, EPDM, FFKM

\*others on request.

### Material

Stainless Steel, Aluminium

\*Other exotic material available on request.

### End Conections

Threaded – BSP, NPT

Flange – ANSI, ASME, ISO, DIN, TTMA

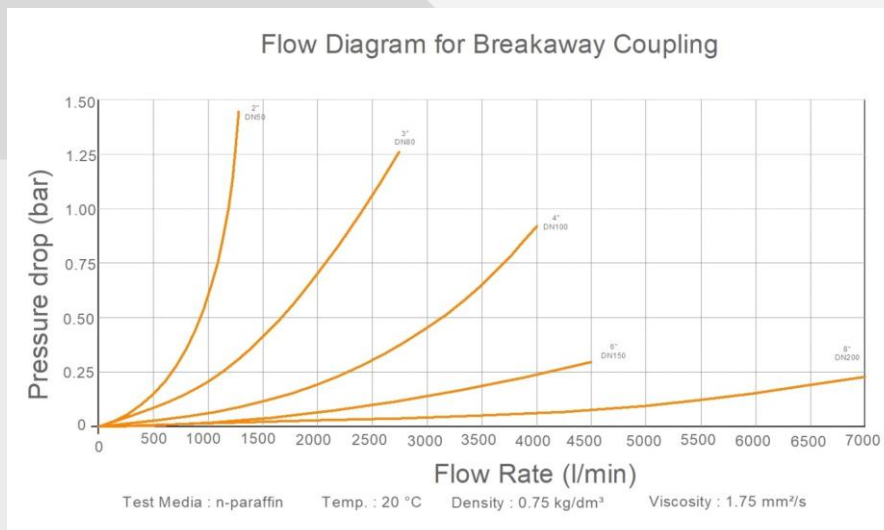
\*other on request.

### Working Pressure

Up to 25 bar (40 bar on request)

### Working Pressure

Pressure drop vs Mass flow rate graph for the Industrial Version & Marine Version.





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## Technical Data

Coupling Size, End connections, Material, Break force, Working pressure & Testing pressure for the Industrial Version & Marine Version.

Size (Inch.)	Material	Breaking Force (Unpressurized)	Max Working Pressure (Bar)	Max Testing Pressure (Bar)
1	Stainless Steel	5 kN	25	37.5
1	Aluminium	3.2 kN	16	24
2	Stainless Steel	20 kN	25	37.5
2	Aluminium	15 kN	16	24
3	Stainless Steel	27 kN	25	37.5
3	Aluminium	15 kN	16	24
4	Stainless Steel	55 kN	25	37.5
4	Aluminium	23 kN	16	24
6	Stainless Steel	95 kN	16	24
6	Aluminium	55 kN	10	15
8	Stainless Steel	TBC	TBC	TBC
8	Aluminium	TBC	TBC	TBC
10	Stainless Steel	TBC	TBC	TBC
10	Aluminium	TBC	TBC	TBC
12	Stainless Steel	TBC	TBC	TBC
12	Aluminium	TBC	TBC	TBC

- Breakaway couplings data are based on the Driplex standard.
- Working pressure will change depending on process connections.
- Note : Above stated breaking force refers in Axial pull condition only, for non-axial pull conditions breaking force will be lower. Driplex can provide data for non-axial conditions on request if separation angle & force application provided from customer end.



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## Technical Data

Weight of the coupling for the different sizes & end connection of Industrial Version & Marine Version.

Size (Inch.)	End Connection	Material	Appx Weight (kg)
1	BSP Female	SS	1.50
1	NPT Female	SS	1.50
1	ANSI B16.5 # 150	SS	3.00
1	ANSI B16.5 # 300	SS	4.00
1	EN 1092-1 PN 10/16	SS	3.50
1	EN 1092-1 PN 25/40	SS	4.30
1	BSP Female	AL	0.50
1	NPT Female	AL	0.50
1	ANSI B16.5 # 150	AL	1.10
1	ANSI B16.5 # 300	AL	1.70
1	EN 1092-1 PN 10/16	AL	1.10
1	EN 1092-1 PN 25/40	AL	1.60
2	BSP Female	SS	5.50
2	NPT Female	SS	5.50
2	ANSI B16.5 # 150	SS	10.00
2	ANSI B16.5 # 300	SS	11.20
2	EN 1092-1 PN 10/16	SS	11.20
2	EN 1092-1 PN 25/40	SS	12.00
2	BSP Female	AL	2.20
2	NPT Female	AL	2.20
2	ANSI B16.5 # 150	AL	3.70
2	ANSI B16.5 # 300	AL	4.10
2	EN 1092-1 PN 10/16	AL	3.80
2	EN 1092-1 PN 25/40	AL	4.20
3	BSP Female	SS	14.00
3	NPT Female	SS	14.00
3	ANSI B16.5 # 150	SS	18.20
3	ANSI B16.5 # 300	SS	21.20
3	EN 1092-1 PN 10/16	SS	19.00
3	EN 1092-1 PN 25/40	SS	21.50
3	BSP Female	AL	5.50
3	NPT Female	AL	5.50
3	ANSI B16.5 # 150	AL	7.00
3	ANSI B16.5 # 300	AL	7.50
3	EN 1092-1 PN 10/16	AL	7.10
3	EN 1092-1 PN 25/40	AL	7.70

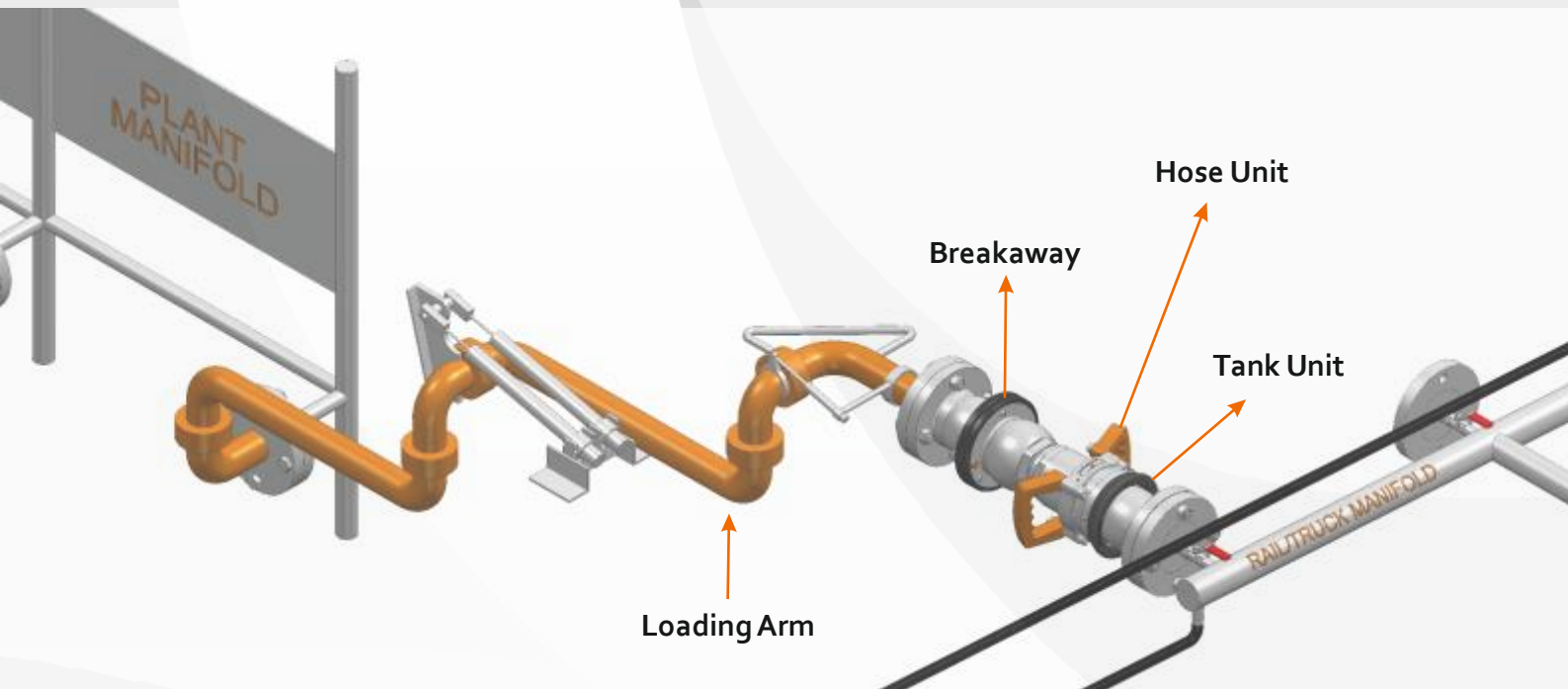
Size (Inch.)	End Connection	Material	Appx Weight (kg)
4	BSP Female	SS	18.60
4	NPT Female	SS	18.60
4	ANSI B16.5 # 150	SS	26.00
4	ANSI B16.5 # 300	SS	34.00
4	EN 1092-1 PN 10/16	SS	25.00
4	EN 1092-1 PN 25/40	SS	34.50
4	BSP Female	AL	7.20
4	NPT Female	AL	7.20
4	ANSI B16.5 # 150	AL	9.50
4	ANSI B16.5 # 300	AL	10.30
4	EN 1092-1 PN 10/16	AL	9.50
4	EN 1092-1 PN 25/40	AL	10.30
6	ANSI B16.5 # 150	SS	52.00
6	ANSI B16.5 # 300	SS	67.50
6	EN 1092-1 PN 10/16	SS	57.00
6	EN 1092-1 PN 25/40	SS	61.50
6	ANSI B16.5 # 150	AL	20.50
6	ANSI B16.5 # 300	AL	25.70
6	EN 1092-1 PN 10/16	AL	22.00
6	EN 1092-1 PN 25/40	AL	23.50
8	ANSI B16.5 # 150	SS	79.90
8	ANSI B16.5 # 300	SS	104.00
8	EN 1092-1 PN 10/16	SS	87.30
8	EN 1092-1 PN 25/40	SS	100.00
8	ANSI B16.5 # 150	AL	30.50
8	ANSI B16.5 # 300	AL	40.00
8	EN 1092-1 PN 10/16	AL	34.00
8	EN 1092-1 PN 25/40	AL	38.00
10	ANSI B16.5 # 150	SS	128.30
10	ANSI B16.5 # 300	SS	162.00
10	EN 1092-1 PN 10/16	SS	142.50
10	EN 1092-1 PN 25/40	SS	160.50
10	ANSI B16.5 # 150	AL	49.70
10	ANSI B16.5 # 300	AL	63.50
10	EN 1092-1 PN 10/16	AL	52.00
10	EN 1092-1 PN 25/40	AL	63.00



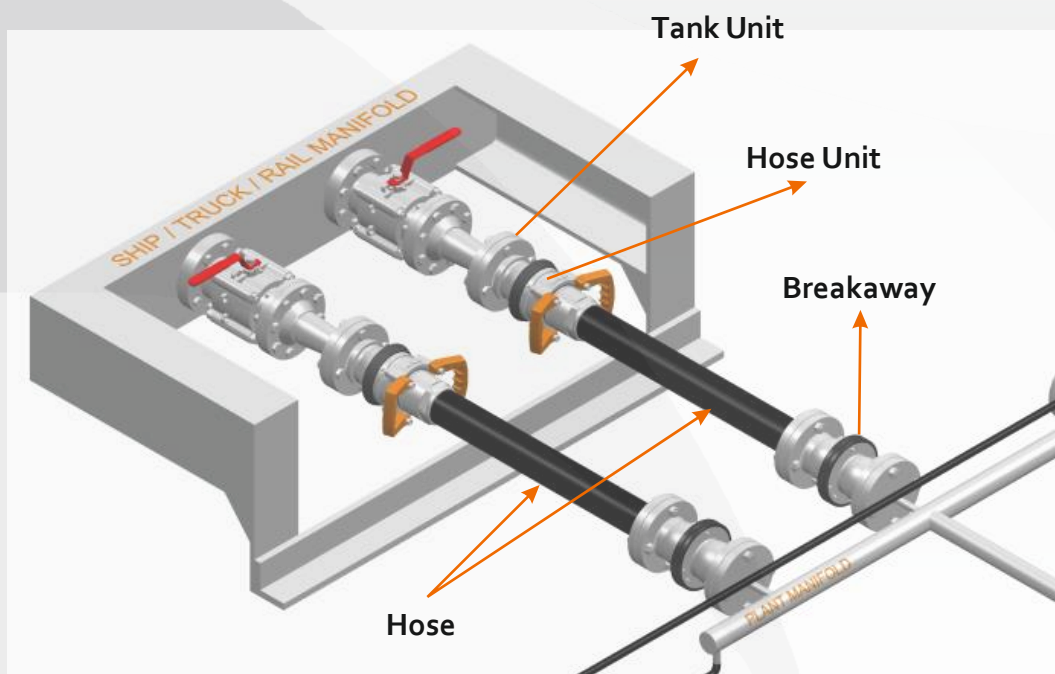
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## Typical application images of Industrial Breakaway coupling

Breakaway Coupling with Bottling Loading arm.



Breakaway Coupling in line with Ship/truck/Rail Hose manifold.



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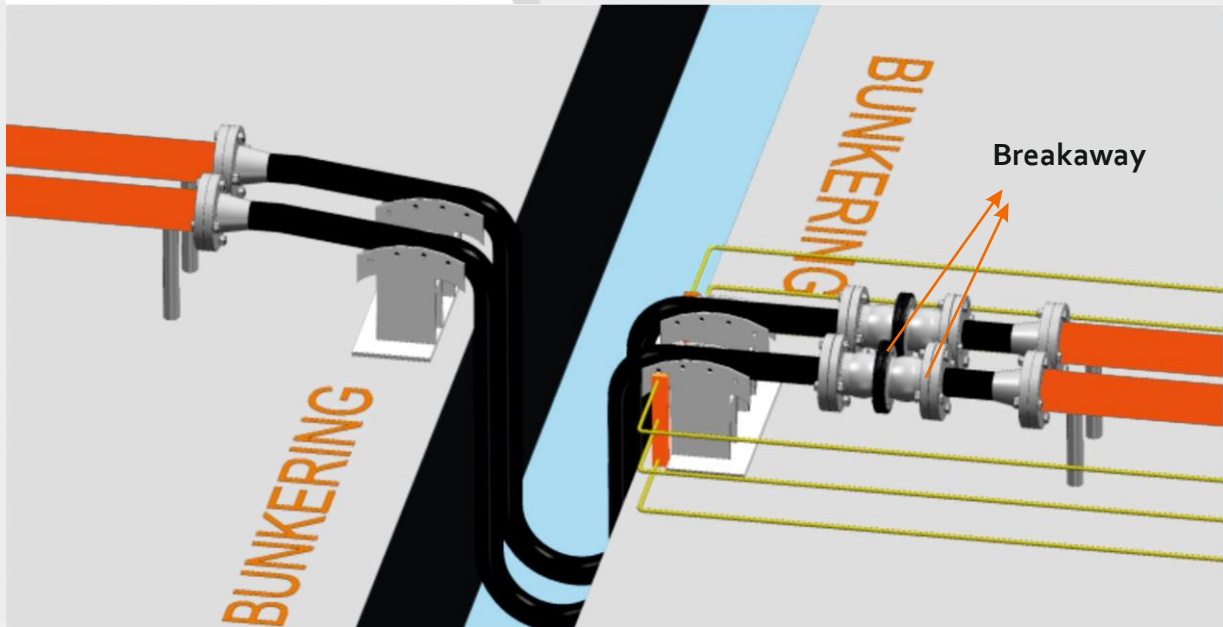
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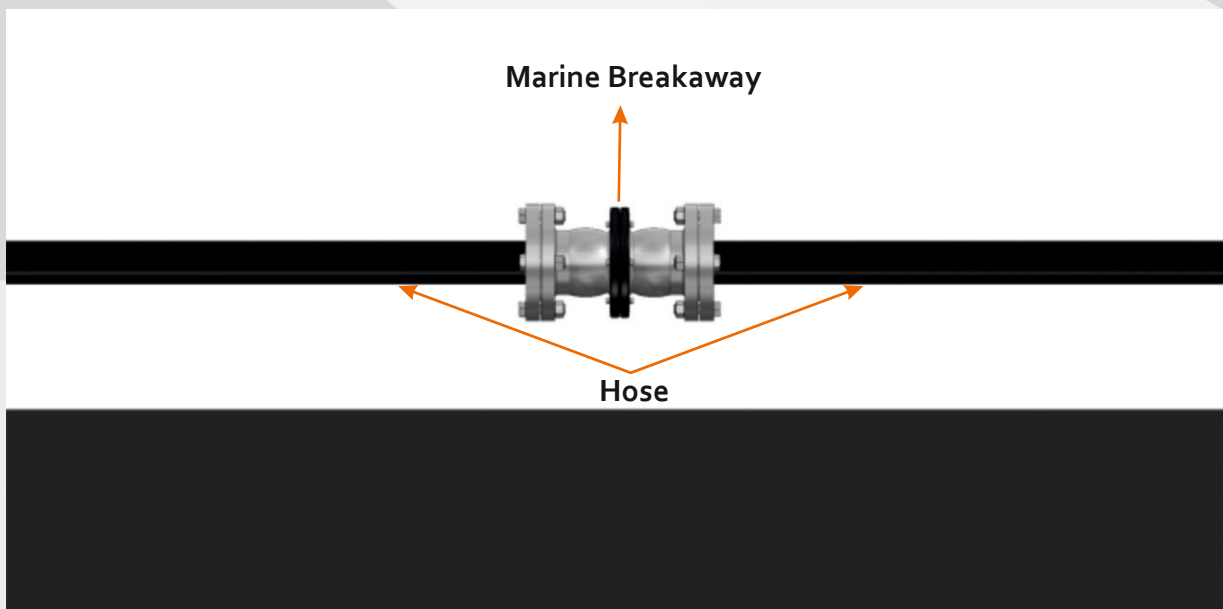
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Breakaway Coupling in Bunkering.



Typical application images of Marine Breakaway coupling Manifold

Hose Marine Breakaway Coupling Hose



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