

Dry Disconnects and Breakaways

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Hose Coupling Safety

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturer's (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose. Visit ARPMINC.com for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

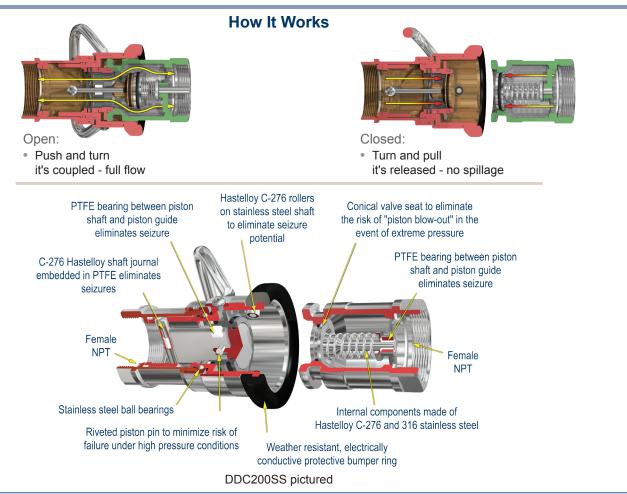
If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Call 877.963.4966 or click dixonvalve.com to learn more.

Features & Benefits

Dry disconnect couplings are designed for the quick and spill free connection and disconnection of hoses and pipelines when transferring expensive hazardous product that is costly to clean up, reprocess or dispose of. Dry disconnects are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids.

- easy to handle push and turn free flow, turn and pull closed
- time saving no need to drain hoses or pipe systems
- economical no loss or spillage of liquids at connection or disconnection
- safety the valve cannot be opened until the unit is coupled
- environment friendly accidental spillage eliminated when properly used
- safe and reliable due to rugged construction
- · product life uncomplicated design and high quality materials ensures long product life
- selectivity To avoid product contamination, selective versions of the couplers and adapters are available. Contact the factory for further information.
- produced according to NATO standard STANAG 3756 and ATOFINA SGM 2049.TUY.C.
- interchanges with Avery Hardoll and Todo-matic[®] STANAG 3756
- Working Pressure (at ambient temperature 70°F) aluminum: 230 PSI up to 4" brass/ gunmetal *: 230 PSI up to 4" stainless steel: 360 PSI
- Optional seals: EPDM NBR - nitrile FFPM FKM
- * produced to U.S. government bronze specification G







female NPT x coupler - aluminum

Dry Quick Disconnects

Coupler - Hose Unit

· coupler has built-in swivel

Features:

- stainless steel ball bearings
- shaft journal is stainless steel embedded in PTFE to eliminate seizure
- · riveted piston pin to minimize the risk for failure under extreme pressure conditions
- the protective ring is a specially formulated, weather resistant and electrically conductive rubber . compound
- stainless steel couplers: rollers are Hastelloy C276 on the stainless steel shaft
- aluminum and brass couplers: rollers are aluminum-bronze on the stainless steel shaft •
- · for information on repair kits visit us on-line at dixonvalve.com

coupler x female NPT with FKM (FPM) seals

Female NPT	Body Size	316 Stainless Steel	Aluminum	Brass / Gunmetal ¹
3⁄4"	56 mm	DDC075SS	DDC075AL	DDC075BR
1"	56 mm	DDC100SS	DDC100AL	DDC100BR
11⁄2"	70 mm	DDC150SS	DDC150AL	DDC150BR
2"	70 mm	DDC200SS	DDC200AL	DDC200BR
3"	105 mm	DDC300SS105	DDC300AL105	DDC300GM105
3"	119 mm	DDC300SS	DDC300AL	DDC300GM
4"	164 mm	DDC400SS	DDC400AL	DDC400GM
6"	238 mm	DDC600SS	DDC600AL	

¹ produced to U.S. government bronze specification G

coupler x 150# ASA flange with FKM (FPM) seals

150# Flange	Body Size	316 Stainless Steel
2"	70 mm	DDC200SSFL
3"	119 mm	DDC300SSFL
4"	164 mm	DDC400SSFL
6"	238 mm	DDC600SSFL
8"	272 mm	DDC800SSFL

coupler x TTMA flange with FKM (FPM) seals

TTMA Flange	Body Size	Aluminum
4"	164 mm	DDC400AL164TTMA

3" design



TTMA flange x coupler - aluminum 4" design



Feature:

Dust Plugs for Couplers

 Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstands hot and cold environments

Size	Body Size	Polyeten PE-HD 300
	-	
3⁄4" and 1"	56 mm	DDDP075
11/2" and 2"	70 mm	DDDP150
3"	105 mm	DDDP300105
3"	119 mm	DDDP300
4"	164 mm	DDDP400
6"	238 mm	DDDP600 ²



female NPT x coupler - brass 11/2" and 2" design



female NPT x coupler - stainless steel 3" design



female NPT x coupler - aluminum 4" design



female NPT x coupler - aluminum 6" design



150# ASA flange x coupler - stainless steel 2" design



150# ASA flange x coupler - stainless steel

DRY DISCONNECTS

Dry Quick Disconnects Adapter - Tank Unit

Features:

- adapter is usually installed on the tank or manifold
- · conical valve seat reduces the risk for "piston blow out"
- PTFE bearings between the piston shaft and the piston guide eliminate the risk for seizure
- for information on repair kits visit us on-line at dixonvalve.com

adapter x female NPT with FKM (FPM) seals

Female NPT	Body Size	316 Stainless Steel	Aluminum	Brass / Gunmetal ¹
3⁄4"	56 mm	DDA075SS	DDA075AL	DDA075BR
1"	56 mm	DDA100SS	DDA100AL	DDA100BR
11⁄2"	70 mm	DDA150SS	DDA150AL	DDA150BR
2"	70 mm	DDA200SS	DDA200AL	DDA200BR
3"	105 mm	DDA300SS105	DDA300AL105	DDA300GM105
3"	119 mm	DDA300SS	DDA300AL	DDA300GM
4"	164 mm	DDA400SS	DDA400AL	DDA400GM
6"	238 mm	DDA600SS	DDA600AL	

¹ produced to U.S. government bronze specification G

adapter x 150# ASA flange with FKM (FPM) seals

150# ASA	Body Size	316 Stainless Steel	Aluminum	Brass / Gunmetal ¹
3/4"	56 mm	DDA075SSFL		
1"	56 mm	DDA100SSFL	DDA100ALFL	DDA100BRFL
11⁄2"	70 mm	DDA150SSFL	DDA150ALFL	DDA150BRFL
2"	70 mm	DDA200SSFL	DDA200ALFL	DDA200BRFL
3"	105 mm	DDA300SS105FL	DDA300AL105FL	DDA300GM105FL
3"	119 mm	DDA300SSFL	DDA300ALFL	DDA300GMFL
4"	164 mm	DDA400SSFL	DDA400ALFL	DDA400GMFL
6"	238 mm	DDA600SSFL	DDA600ALFL	
8"	272 mm	DDA800SSFL		

¹ produced to U.S. government bronze specification G

adapter x TTMA flange with FKM (FPM) seals

TTMA	Body Size	Aluminum
3"	105 mm	DDA300AL105TTMA
3"	119 mm	DDA300AL119TTMA
4"	164 mm	DDA400AL164TTMA

Feature:

Dust Caps for Adapters

- Composite (Polyeten PE-HD 300) caps provide good protection against corrosion and withstands hot and cold environments.
- FKM (FPM) gaskets standard on polyeten caps

dust caps

Body Size	Polyeten PE-HD 300	Rubber	
56 mm	DDDC075		
70 mm	DDDC150	DGDC200	
105 mm	DDDC300105		
119 mm	DDDC300	DGDC300	
164 mm	DDDC400		
238 mm	DDDC600 ²		
	Body Size 56 mm 70 mm 105 mm 119 mm 164 mm	Body Size Polyeten PE-HD 300 56 mm DDDC075 70 mm DDDC150 105 mm DDDC300105 119 mm DDDC300 164 mm DDDC400	

² 6" dust cap is aluminum

- aluminum adapter aluminum poppet, stainless steel internal parts
- stainless steel adapter stainless steel poppet, stainless steel internal parts
- brass / gunmetal * adapter brass poppet, brass and stainless steel internal parts
 ¹ produced to U.S. government bronze specification G



adapter x female NPT - DDA100BR



adapter x 150# ASA flange - DDA200SSFL



adapter x TTMA flange - DDA300AL119TTMA



Dry Aviation Couplings Coupler - Hose Unit

Applications: Dry aviation couplings are designed for use in aviation refueling systems. Manufactured to accept the international standard 2¹/₂" point bayonet, hose end refueling nozzles according to: ISO45 / MS24484 / STANAG 3105 / British Aerospace Spec. 2C14. *They are not configured for under-wing refueling.*

Features:

- body: high strength aluminum
- coupling ring: gunmetal
- bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are aluminum and stainless steel
- 150 PSI working pressure

- stainless steel ball bearings
- gunmetal (produced to U.S. government bronze specification G) coupling ring minimizes the risk of seizure
- bayonet flange and inner parts: stainless steel, stainless steel shaft journal embedded in PTFE eliminates seizure
 - PTFE bearings between the driving plate and the piston guide eliminate the risk of seizure
 - riveted piston pin minimizes the risk of failure under extreme pressure conditions
 - the protective ring is a specially formulated, weather resistant and electrically conductive rubber compound



female NPT x coupler - DAC250AL

coupler x female NPT with FKM (FPM) seals

Female NPT	Body Size	Aluminum
21⁄2"	ISO 45	DAC250AL
3"	ISO 45	DAC300AL

coupler x female BSP with FKM (FPM) seals

Female BSP	Body Size	Aluminum
21/2"	ISO 45	DAC250ALBSP
3"	ISO 45	DAC300ALBSP

Sight Flow Indicators

Features:

- filter / screen can be inspected through the sight glass
- filter / screen is easily removed if cleaning is required
- screen is 100 mesh



2½" N

sight flow indicator - ASFI25T25B

Female Thread	Male Thread	Aluminum
21⁄2" NPT	21⁄2" BSP	ASFI25T25B
3" NPT	3" BSP	ASFI30T30B
21⁄2" NPT	21⁄2" NPT	ASFI25T25T
3" NPT	3" NPT	ASFI30T30T

aviation sight flow indicator with filter / screen

Dust Plug for Couplers

Feature:

• Composite (Polyeten PE-HD 300) plug provides good protection against corrosion and withstands hot and cold environments.

composite dust plug

Size	Body Size	Polyeten PE-HD 300
21⁄2"	ISO 45	DADP250





composite plug

Dry Aviation Couplings Adapter - Tank Unit

Applications: Dry aviation couplings are designed for use in aviation refueling systems. Manufactured to accept the international standard 2½" point bayonet, hose end refueling nozzles according to: ISO45 / MS24484 / STANAG 3105 / British Aerospace Spec. 2C14. *They are not configured for under-wing refueling.*

Features:

- · gunmetal coupling ring minimizes the risk of seizure
- PTFE bearings between the piston shaft and the piston guide eliminate the risk of seizure
- conical valve seat eliminates the risk of "piston blow out" when extreme pressure is used
- body: high strength aluminum
- · bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are aluminum and stainless steel
- coupling ring: gunmetal

Female BSP

2¹/₂"

3"

• 150 PSI working pressure at ambient temperature (70°F)



adapter x female NPT with FKM (FPM) seals

Female NPT	Body Size	Aluminum
21/2"	ISO 45	DAA250AL
3"	ISO 45	DAA300AL

adapter x female NPT - DAA250AL



adapter x 150# ASA flange - DAA250ALFL

ISO 45 DAA300ALFL

adapter x 150# ASA flange with FKM (FPM) seals

Body Size

ISO 45

Dust Cap for Adapter

Aluminum

DAA250ALFL

Feature:

 Composite (Polyeten PE-HD 300) cap provides good protection against corrosion and withstands hot and cold environments.

composite dust caps for adapters

Size	Body Size	Polyeten PE-HD 300
21⁄2"	ISO 45	DADC250



composite cap

Dry Gas Couplings Coupler - Hose Unit

Applications: Dry gas couplings are designed for safe loading and discharge of bulk delivery trucks and rail cars. They are quick and easy to connect and can be connected to a tank unit with pressures up to **225 PSI**. If the pressure is higher you can equip the couplings with a pressure relief valve. The easy to connect pressure relief valve dissipates trapped fluid pressure into the hose coupler without spillage. The primary application of dry gas couplings is in the handling of LPG - Propane and Butane.

Features:

- stainless steel and brass / gunmetal (produced to U.S.
- government bronze specification G)
- FKM (FPM) seals
- female NPT, female ACME and ASA flanges
- 360 PSI working pressure at ambient temperature (70°F)
- safe handling of LPG

- reliable and easy to maintain
- can be coupled against higher pressure
- minimizes the risk of cold burns
- minimizes spillage and product loss
- minimizes health risks
- · keeps the environment free of hazardous vapors and liquids



female NPT x coupler DGC300SS

coupler x female NPT with FKM (FPM) seals

Female NPT	Body Size	Stainless Steel
1"	56 mm	DGC100SS
2"	71 mm	DGC200SS
3"	119 mm	DGC300SS

Dust Plugs for Couplers

Feature:

 Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstand hot and cold environments



composite dust plug

Size	Body Size	Polyeten PE-HD 300
1"	56 mm	DGDP100
2"	71 mm	DGDP200
3"	119 mm	DGDP300

Dry Gas Couplings Adapter - Tank Unit

Applications: Dry gas couplings are designed for safe loading and discharge of bulk delivery trucks and rail cars. They are quick and easy to connect and can be connected to a hose unit with pressures up to **225 PSI**. If the pressure is higher you can equip the couplings with a pressure relief valve. The easy to connect pressure relief valve dissipates trapped fluid pressure into the hose coupler without spillage. The primary application of dry gas couplings is in the handling of LPG - Propane and Butane.

Features:

- safe handling of LPG
- reliable and easy to maintain
- can be coupled to a hose unit with pressures up to 225 PSI
- minimizes the risk of cold burns
- minimizes spillage and product loss
- minimizes health risks
- · keeps the environment free of hazardous vapors and liquids
- stainless steel and brass / gunmetal (produced to U.S. government bronze specification G)
- FKM (FPM) seals

Female ACME

13/4"

31/4"

- female NPT, female ACME thread and ASA flanges
- 360 PSI working pressure



adapter x female NPT - DGA200SS

adapter x female NPT with FKM (FPM) seals

Female NPT	Body Size	Stainless Steel
1"	56 mm	DGA100SS
2"	71 mm	DGA200SS
3"	119 mm	DGA300SS

adapter x female ACME thread with FKM (FPM) seals

Body Size

56 mm



adapter x female ACME - DGA200SS325

71 mm	DGA200SS325
	e with FKM (FPM) seals

Stainless Steel

DGA100SS175

adapter x 150# ASA flange with FKM (FPM) seals

		v
150# ASA	Body Size	Stainless Steel
1"	56 mm	DGA100SSFL
2"	71 mm	DGA200SSFL
3"	119 mm	DGA300SSFL

Dust Caps

dust caps						
Size	Body Size	Polyeten PE-HD 300	Rubber			
1"	56 mm	DGDC100				
2"	71 mm		DGDC200			
3"	119 mm		DGDC300			



adapter x 150# ASA flange - DGA200SSFL

edentery female NDT with EKM (EDM)

Dry Disconnect Fittings for Steam Service

Applications:

Designed to fit hoses carrying steam used in chemical (heating), pharmaceutical (disinfection and sterilization) and at loading bays

Features:

- · coupling housing and all inner parts: stainless steel
- seals: EPDM 291, other materials available, contact Dixon
- · unintentional separation is eliminated preventing accidents and avoiding unintended down time
- performance unaffected by surface rust
- lockable versions are available on 1¹/₂" and 2", contact Dixon
- · couplers supplied with double handles



female NPT x adapter

adapter x female NPT					
Female NPT	Body Size	Stainless Steel			
3/4"	56mm	DDSA075SS			
1"	56mm	DDSA100SS			
11⁄2"	70mm	DDSA150SS			
2"	70mm	DDSA200SS			



coupler x female NPT

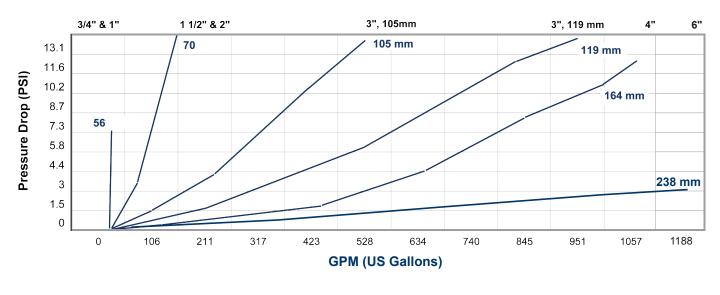
Female NPT	Body Size	Stainless Steel
3/4"	56mm	DDSC075SS
1"	56mm	DDSC100SS
1½"	70mm	DDSC150SS
2"	70mm	DDSC200SS

DRY DISCONNECTS

Dry Disconnect Couplings

Flow Rate Media: Water Temp: 60° F

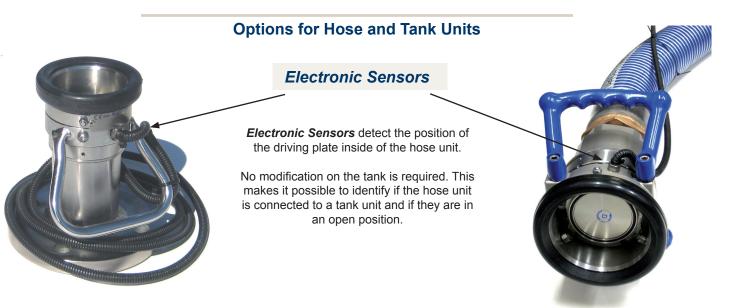


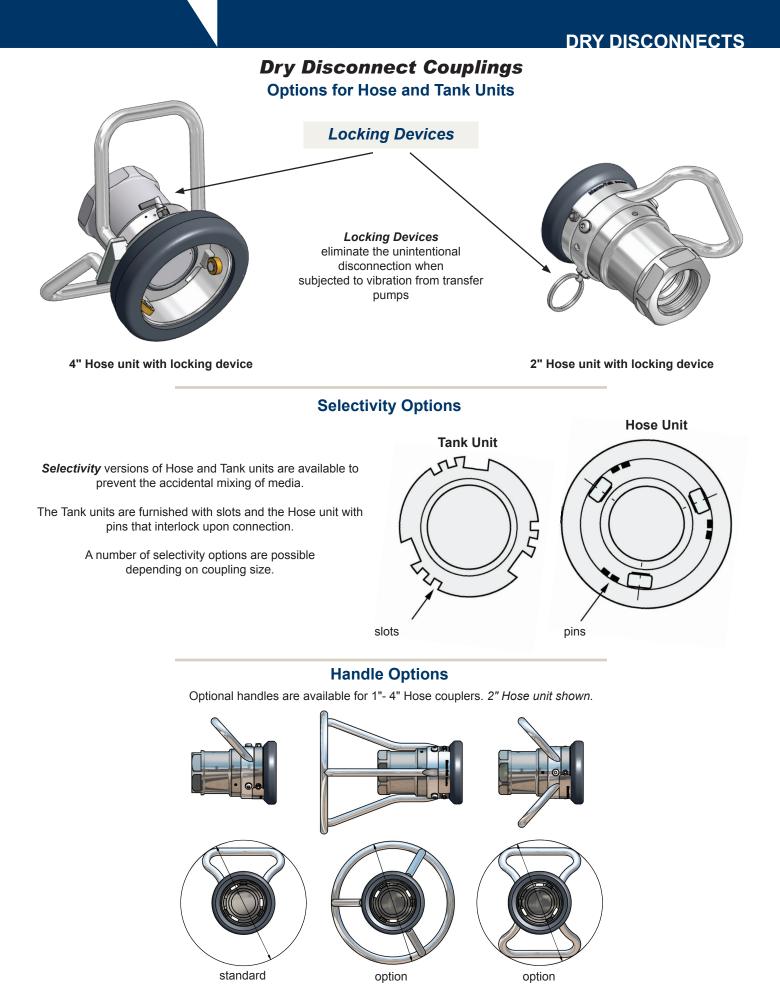


Spillage on Disconnection

The test was made by coupling and uncoupling 10 times under pressures between one (1) and ten (10) bars. The result we got is a total spillage over 10 coupling cycles and an average spillage on each coupling cycle. The test was carried out with water under ambient temperature.

Size	Socket diameter	Total spill 10 cycles	Average spill 1 cycle
1" – DN 25	56 mm	1 ml	0.1 ml
2" – DN 50	70 mm	3 ml	0.3 ml
21⁄2" – DN 65	105 mm	8 ml	0.8 ml
3" – DN 80	119 mm	10 ml	1.0 ml
4" – DN 100	164 mm	35 ml	3.5 ml





Dixon 877.963.4966

BAYLOC[™]

Bayloc[™] Dry Disconnect Couplings Couplers

Features:

- dry disconnect coupler has automatic closing poppet assembly
- heavy duty stainless steel crank and link provide long service life
- stainless steel investment cast handle

Seal

Material

PTFE Encap.

FKM and

FFPM

Seal Material

Buna

FKM

PTFE Encap. Silicone

and FFPM

prevents unintentional opening of poppet assembly

Locking Kit for Couplers

Female Coupler

Female Coupler

Size

2"

21/2"

Size

21/2"

21/2"

21/2"

NPT

11/2"

2"

NPT

2"

2"

2"

Features:

- strong handle attachment prevents bending of crank assembly
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have stainless steel¹ internals
- EZ Boss-Lock[™] cam arms standard on all 1¹/₂" and 2" fittings, provide high security from accidental opening due to vibration or snagging
- large paddle type locking cam arms standard on 3" fittings, allow for an easy grip
- · for information on repair kits visit us on-line at dixonvalve.com

Female	Coupler	Seal Material	Alur	ninum	Stainless	s Steel ¹		
NPT	Size	Seal Material	Dixon #	OPW #	Dixon #	OPW #		
11⁄2"	2"		DBC61-150	1711D-AL15/1761	DBC71-150	1771D-SS15		
2"	21⁄2"	Buna	DBC61-200	1711D-AL20/1761	DBC71-200	1771D-SS20		
3"	4"		DBC61-300	1711D-AL30	DBC71-300	1771D-SS30		
11⁄2"	2"		DBC62-150	1712D-AL15/1762	DBC72-150	1772D-SS15		
2"	21⁄2"	FKM	DBC62-200	1712D-AL20/1762	DBC72-200	1772D-SS20		
3"	4"		DBC62-300	1712D-AL30	DBC72-300	1772D-SS30		
11⁄2"	2"	PTFE Encap.	DBC63-150	1763D-AL15	DBC73-150	1773D-SS15		
2"	21⁄2"	Silicone and	DBC63-200	1763D-AL20	DBC73-200	1773D-SS20		
3"	4"	FFPM	DBC63-300	1763D-AL30	DBC73-300	1773D-SS30		
11⁄2"	2"		DBC64-150	1764D-AL15	DBC74-150	1774D-SS15		
2"	21⁄2"	EPT	DBC64-200	1764D-AL20	DBC74-200	1774D-SS20		
3"	4"		DBC64-300	1764D-AL30	DBC74-300	1774D-SS30		
11⁄2"	2"	FEDM and			DBC76-150	1776D-SS15		
2"	21⁄2"	FFPM and	DBC66-200	1766D-AL20	DBC76-200	1776D-SS20		
3"	4"	PTFE			DBC76-300	1776D-SS30		
11⁄2"	2"	PTFE Encap.			DBC77-150	1777D-SS15		
2"	21⁄2"	FKM and			DBC77-200	1777D-SS20		
3"	4"	FFPM			DBC77-300	1777D-SS30		
3"	4"	FKM B	DBC69-300	1769D-AL30	DBC79-300	1779D-SS30		

greaseless coupler x female NPT

Aluminum

DBC67-150-GL

DBC67-200-GL

Dixon #

DBS61-200

DBS62-200

DBS63-200

coupler x 90° swivel female NPT

coupler x female NPT

Must be used with a DBA style adapter for coupler to operate.

Adapter sold separately. (see next page)



- ¹ stainless steel corrosion resistance is equivalent to 304 stainless steel
- ² FFPM gasket, main seal O-ring and handle O-ring. PTFE seals on cylinder assembly, stuffing box, and seal under poppet screw.



coupler x female NPT - DBC71-200



coupler x female NPT - DBC61-300



coupler x 90° swivel female NPT - DSB61-200



locking kit - DBCL-200

dust plug - G200-DP-AL

Dust Plugs for Couplers

Providence and a second se								
Description	Aluminum	Size	Aluminum	Stainless Steel				
for use with 11/2" and 2" cam and groove couplers	DBCL-200	2"	G200-DP-AL	G200-DP-SS				
for use with 3" cam and groove couplers	DBCL-300	21/2	G250-DP-AL	G250-DP-SS				
		4"	G400-DP-AL	G400-DP-SS				

Stainless Steel

DBC77-150-GL

DBC77-200-GL

OPW #

1711ES-0200

1712ES-0200

Aluminum

Bayloc[™] Dry Disconnect Couplings

Adapters

Applications: Compatible with most cam and groove style dry disconnects, the Bayco dry disconnect helps prevent spillage from normal or accidental disconnects. A spring loaded sealing device is designed to "snap" closed should the valve become disconnected with the poppet open, significantly limiting liquid loss.



adapter x female NPT - DBA71-200



adapter x female NPT - DBA11-300



adapter x flange - DBAF71-200



vapor adapter x female NPSM - DBAV73-2030



Dust Caps for Adapters

Features:

- · two-piece design for easy rebuilding of adapters
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have aluminum nose piece and brass piston
- for pressure ratings at other temperatures, contact the factory
- for information on repair kits visit us on-line at dixonvalve.com

	adapter	X	femal	el	NP	Γ	

Female	Adapter	Seal	Alum	ninum	Stainless Steel ¹	
NPT	Size	Material	Dixon #	OPW #	Dixon #	OPW #
1½"	2"		DBA11-150	1611AN-AL15	DBA71-150	1671AN-SS15
2"	21/2"	Buna	DBA11-200	1611AN-AL20	DBA71-200	1671AN-SS20
3"	4"		DBA11-300	1611AN-AL30	DBA71-300	1671AN-SS30
11⁄2"	2"		DBA12-150	1612AN-AL15	DBA72-150	1672AN-SS15
2"	21/2"	FKM	DBA12-200	1612AN-AL20	DBA72-200	1672AN-SS20
3"	4"		DBA12-300	1612AN-AL30	DBA72-300	1672AN-SS30
1½"	2"	PTFE	DBA63-150	1613AN-AL15	DBA73-150	1673AN-SS15
2"	21/2"	Encap.	DBA63-200	1613AN-AL20	DBA73-200	1673AN-SS20
3"	4"	Silicone	DBA63-300	1613AN-AL30	DBA73-300	1673AN-SS30
11⁄2"	2"		DBA64-150	1614AN-AL15	DBA74-150	1674AN-SS15
2"	21/2"	EPT	DBA64-200	1614AN-AL20	DBA74-200	1674AN-SS20
3"	4"		DBA64-300	1614AN-AL30	DBA74-300	1674AN-SS30
11⁄2"	2"		DBA66-150	1616AN-AL15	DBA76-150	1676AN-SS15
2"	21/2"	FFPM	DBA66-200	1616AN-AL20	DBA76-200	1676AN-SS20
3"	4"		DBA66-300	1616AN-AL30	DBA76-300	1676AN-SS30
11⁄2"	2"	PTFE			DBA77-150	1677AN-SS15
2"	21/2"				DBA77-200	1677AN-SS20
3"	4"	Encap. FKM			DBA77-300	1677AN-SS30
3"	4"	FKM B	DBA69-300	1619AN-AL30		

jump size adapter x female NPT

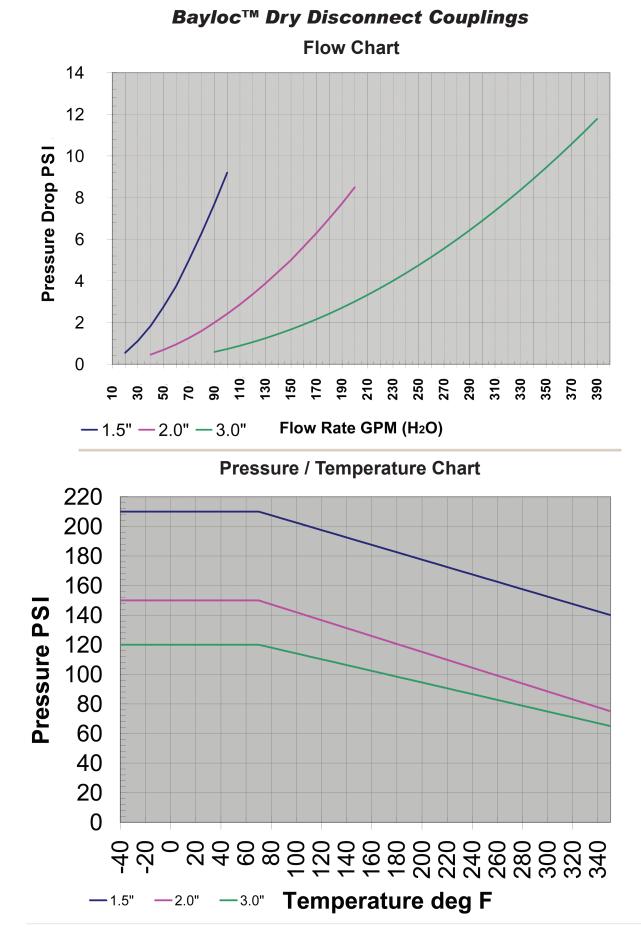
Female	Adapter	Seal	Alumin	um
NPT	Size	Material	Dixon #	OPW #
2"	2"	Buna	DBA11-1520	
2"	2"	FKM	DBA12-1520	

adapter x 150# ASA flange

			1 0	
Flange	Adapter	Seal	Stainless	Steel ¹
Size	Size	Material	Dixon #	OPW #
2"	2"		DBAF72-1520	1672ANF-SS15
2"	21⁄2"	FKM	DBAF72-200	1672ANF-SS20
3"	4"		DBAF72-300	1672ANF-SS30
2"	2"	PTFE	DBAF73-1520	1673ANF-SS15
2"	21⁄2"	Encap.	DBAF73-200	1673ANF-SS20
3"	4"	Silicone	DBAF73-300	1673ANF-SS30
2"	2"		DBAF74-1520	1674ANF-SS15
2"	21⁄2"	EPT	DBAF74-200	1674ANF-SS20
3"	4"		DBAF74-300	1674ANF-SS30
2"	2"		DBAF76-1520	1676ANF-SS15
2"	21/2"	FFPM	DBAF76-200	1676ANF-SS20
3"	4"		DBAF76-300	1676ANF-SS30

vapor adapter x female NPSM

2" G200-DC-AL G200-DC-SS NPSM Size Material Dixon # OPW # 2½" G250-DC-AL G250-DC-SS 3" 2" PTFE DBAV73-2030 2173AVN	Size	Aluminum	Stainless Steel	Female Adapter Seal Stainless Steel 1			Steel ¹	
A" G400-DC-AI G400-DC-SS		G200-DC-AL	G200-DC-SS	NPSM	NPSM Size Material Dixon # OPW			
4" G400-DC-AL G400-DC-SS	21⁄2"	G250-DC-AL	G250-DC-SS	3" 2" PTFE DBAV73-2030 2173AVN				
stainless steel corrosion resistance is equivalent to 304 stainless steel	4"	G400-DC-AL	G400-DC-SS 1. staiplage steel correction registence is equivalent to 204 staiplage steel					



Bayonet Style Dry Disconnect Couplings Couplers



coupler x straight female NPT - BC62-200



coupler x straight swivel female NPT - BSS62-300



coupler x 90° swivel female NPT - BS62-200



coupler x 90° swivel female NPT - BS62-300



dust plug BCP-200

Applications: Bayco brand BA and BS series bayonet dry disconnect fittings are designed for use in the fuel and lube oil service industry. **Features:**

- These fittings are compatible with Emco Wheaton[™] Dry Break[™], commonly found in these services.
- The maximum pressure rating for fittings is **85 PSI** at 70°F, for pressure ratings at other temperatures contact Dixon.
- for information on repair kits visit us on-line at dixonvalve.com

coupler x straight female NPT					
Size	Seal Material	Anodized Aluminum			
SIZE	Seal Material	Dixon #	Emco Wheaton™ #		
2"	Buna	BC61-200	J72C-ABN0-B		
2"	FKM BC62-200 J72C-AVN0-B				

coupler x straight swivel female NPT

Size	Seal Material	Anodized Aluminum				
Size		Dixon #	Emco Wheaton™ #			
2"	Buna	BSS61-200	J72C-ABN1-B			
2"	FKM	BSS62-200	J72C-AVN1-B			
3"	Buna	BSS61-300	J73C-ABN1-B			
3"	FKM	BSS62-300	J73C-AVN1-B			

coupler x 90° swivel female NPT

Size	Seal Material	Anodized Aluminum				
		Dixon #	Emco Wheaton™ #			
2"	Buna	BS61-200	J72C-ABN2-B			
2"	FKM	BS62-200	J72C-AVN2-B			
3"	Buna	BS61-300	J73C-ABN2-B			
3"	FKM	BS62-300	J73C-AVN2-B			

Dust Plugs for Couplers

Size	Part #
2"	BCP-200
3"	BCP-300

• Rubber dust plugs come with stainless steel chains.

Dry Disconnects - Bayonet

Bayonet Style Dry Disconnect Couplings Adapters

Applications: Bayco brand BA and BS series bayonet dry disconnect fittings are designed for use in the fuel and lube oil service industry.

Features:

Size

3"

3"

Size

3"

3"

Seal Material

Buna

FKM

Seal Material

Buna

FKM

- These fittings are compatible with Emco Wheaton[™] Dry Break[™], commonly found in these services.
- The maximum pressure rating for fittings is **85 PSI** at 70°F, for pressure ratings at other temperatures contact Dixon.
- for information on repair kits visit us on-line at dixonvalve.com

adapter x female NPT

Size	Seal Material	Stainless Steel			
SIZE		Dixon #	Emco Wheaton™ #		
2"	Buna	BA31-200	J72A-BBN0-B / J72A-ABN0-B		
2"	FKM	BA32-200	J72A-BVN0-B / J72A-AVN0-B		

adapter x female NPT

Dixon #

BA31-300

BA32-300

adapter x female NPT

Dixon #

BA61-300

BA62-300

Brass

Aluminum

Emco Wheaton™ #

J73A-BBN0-B

J73A-BVN0-B

Emco Wheaton™ #

J73A-ABN0-B

J73A-AVN0-B



adapter x female NPT - BA32-200



adapter x female NPT - BA31-300



adapter x female NPT - BA62-300

Dust	Caps	for A	dapt	ters

Size	Polyeten PE-HD 300
2"	DDDC150
3"	DDDC300105

Size	Rubber
2"	BAC-200
3"	BAC-300

• Rubber dust plugs come with stainless steel chains.



composite dust cap DDDC300105



rubber dust cap BAC-300

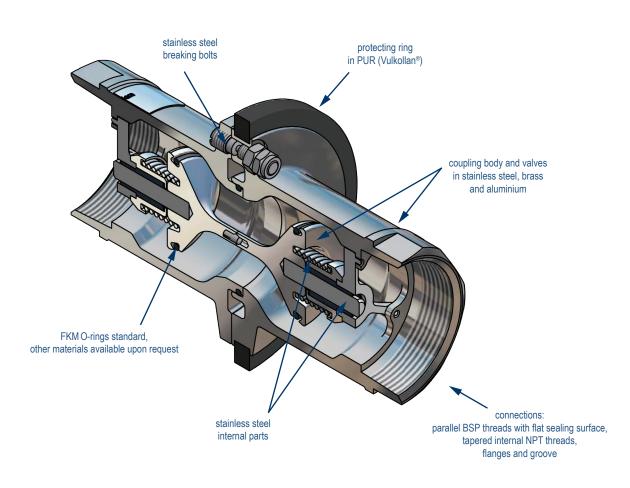
Industrial Safety Break-Away Couplings - Breaking Bolt Series Advantages



Industrial break-away coupling can be utilized for most industrial product transfer installations.

The industrial SBCouplings are specifically designed to be able to activate with a tensile force being applied at an angle to the plane of the coupling housing, up to 90 degrees.

Key Features



BREAKING BOLT SERIES

Safety Break-Away Couplings Industrial Version

The breaking bolt industrial breakaway coupling is designed to minimize spillage and damage associated with drive away and pull away incidents.

Features:

- designed to be installed between a fixed point (pipe, pump, manifold) and a hose
- coupling automatically senses an excessive load, closes the valves and disconnects (see page 24)
- simple dependable mechanism
- high flow rate / low pressure drop
- female NPT is standard, optional ASA/ DIN flanges or male NPT are available
 FKM is standard seal
- Working pressure: stainless steel 360 PSI and aluminum 230 PSI at ambient temperature (70°F)

industrial breaking bolt series

· for information on repair kits visit us on-line at dixonvalve.com

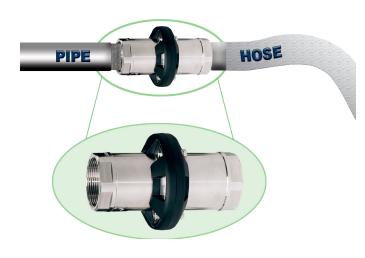


SBC200AL - aluminum

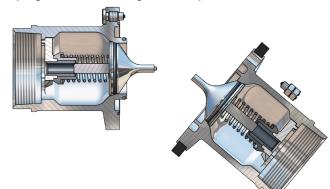
		Flow		_	\\/eia	ht lbs.			
Size	DN	Rate	Width	Length	SS	AL	316 Stainless Steel	Aluminum	
2"	50	200	4.5"	7"	6.8	2.4	SBC200SS	SBC200AL	
3"	80	650	6.8"	11"	19.6	7.3	SBC300SS	SBC300AL	
4"	100	800	8.3"	12"	35.9	12.8	SBC400SS	SBC400AL	
5"	125	1100	10.6"	14"	69.4	26.6	SBC500SS	SBC500AL	
6"	150	1500	12"	16"	103.0	37.6	SBC600SS	SBC600AL	
2"	50	200	4.5"	7"	6.2	2.2	SBC200SSMNPT ¹	SBC200ALMNPT 1	
3"	80	650	6.8"	11.3"	18.7	7.0	SBC300SSMNPT1	SBC300ALMNPT 1	
4"	100	800	8.3"	12.9"	36.8	13.0	SBC400SSMNPT ¹	SBC400ALMNPT 1	
5"	125	1100	10.6"	13.8"	66.1	26.6	SBC500SSMNPT ¹	SBC500ALMNPT 1	
6"	150	1500	12"	16"	103.0	37.6	SBC600SSMNPT ¹	SBC600ALMNPT 1	
2"	50	200	4.5"	7"	7.5	5.7	SBC200SSFL ²	SBC200ALFL ²	
3"	80	650	6.8"	8.5"	25.4	12.1	SBC300SSFL ²	SBC300ALFL ²	
4"	100	800	9.3"	9"	43.2	17.2	SBC400SSFL ²	SBC400ALFL ²	
5"	125	1100	10.6"	14"	70.4	26.6	SSBC500SSFL ²	SSBC500ALFL ²	
6"	150	1500	12.5	15.1	110.0	40.0	SBC600SSFL ²	SBC600ALFL ²	
8"	200	3700	13.5"	17.7"	157.0		SBC800SSFL ²	SBC800ALFL ²	

¹ male NPT

² 150# flange



Industrial break-aways are typically installed on a loading arm or manifold and hose assemblies, where at least one side of the coupling is attached to a rigid or fixed point.



Release with a tensile force being applied at an angle to the plane of the coupling housing, up to 90 degrees.

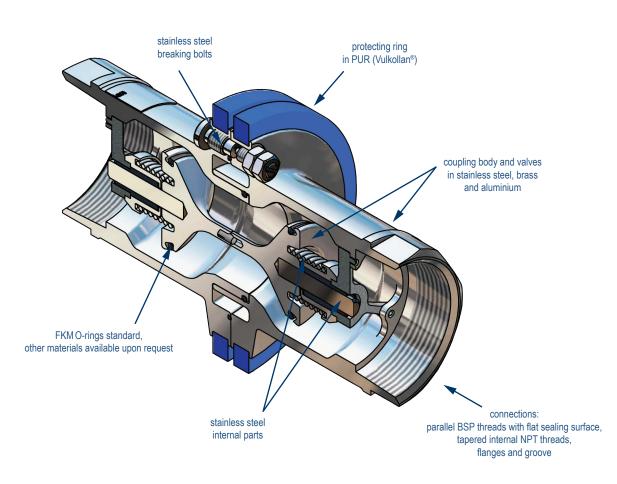
Marine Safety Break-Away Couplings - Breaking Bolt Series Advantages



Marine version of the safety break-away couplings are designed specifically to be installed within a hose string, where the coupling would have a length of hose attached to both sides.

This coupling incorporates the same internal mechanism as our Industrial couplings, but has additional external features that provide increased resistance to torsional and bending moment forces which may be applied to the coupling, preventing premature activation in the unpredictable marine environment.

Key Features



BREAKING BOLT SERIES

Safety Break-Away Couplings **Marine Version**

The breaking bolt marine version break-away coupling is designed to minimize spillage and damage associated with pull-away incidents.

Features:

- · designed to be installed within a hose string where the coupling will have a length of hose attached to both sides
- · typical applications include: ship-to-offshore platform and ship-to-ship product transfer operations
- · coupling automatically senses an excessive load, closes the valves and disconnects (see page 23)
- release is executed when force causes bolts to break
- female NPT is standard, optional ASA / DIN flanges or male NPT are available
- FKM is standard seal
- working pressure of stainless steel is 360 PSI at ambient temperature (70°F)
- · for information on repair kits visit us on-line at dixonvalve.com



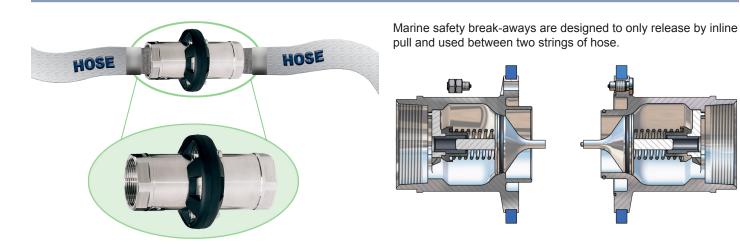
MSBC300SS - stainless steel

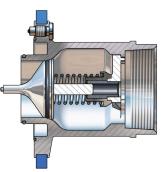
Size	DN	Flow Rate GPM	Width	Length	Weight lbs.	316 Stainless Steel
2"	50	200	4.5"	7.0"	5.7	MSBC200SS
3"	80	650	6.8"	11.0"	21.8	MSBC300SS
4"	100	800	8.3"	12.0"	34.1	MSBC400SS
5"	125	1100	10.6"	14.0"	70.4	MSBC500SS
6"	150	1500	12.0"	16.0"	103.0	MSBC600SS
2"	50	200	n/a	n/a	5.7	MSBC200SSMNPT ¹
3"	80	650	6.9"	11.8"	18.7	MSBC300SSMNPT 1
4"	100	800	8.3"	13.6"	36.8	MSBC400SSMNPT 1
5"	125	1100	n/a	n/a	70.4	MSBC500SSMNPT 1
2"	50	200	5.9"	5.4"	12.1	MSBC200SSFL ²
3"	80	650	7.5"	9.0"	27.3	MSBC300SSFL ²
4"	100	800	9.0"	9.9"	46.7	MSBC400SSFL ²
5"	125	1100	n/a	n/a	n/a	MSBC500SSFL ²
6"	150	1500	12.5	15.1	110	MSBC600SSFL ²
8"	200	3700	13.5"	17.7"	157	MSBC800SSFL ²

marine breaking bolt series

¹ male NPT

² 150# flange





Safety Break-Away Couplings - Breaking Bolt Series Examples of Connection Combinations

Features:

- BSP female thread / BSP female thread
- male thread / male thread
- groove / groove
- flange / flange

- NPT female thread / NPT female thread
- NPT female thread / NPT male thread (also available with BSP)
- NPT female thread / groove
- flange / thread (BSP / NPT female/male or groove)



BSP female thread x BSP female thread



male thread / male thread



NPT female thread / NPT female thread



NPT female thread / NPT male thread (also available with BSP)



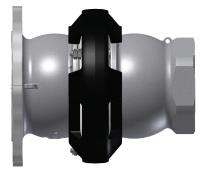
groove / groove



flange / flange



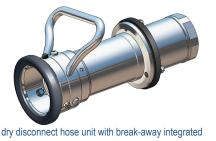
NPT female thread / groove



flange / thread (BSP / NPT female / male or groove)

Safety Break-Away Coupling - Options

Where there is a risk of excessive force on the hose due to unexpected movement between the loading and unloading station, combining the dry disconnect coupling or swivel with a safety break away coupling may be a solution.



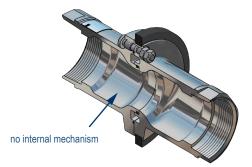


hose swivel with break-away integrated

Non-Closure Design

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. This design allows spillage of product in these instances due to the lack of valving in the coupling.

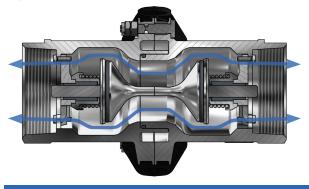
Useful in applications where non-hazardous product is being conveyed and where there are no environmental concerns. Available in both Industrial and Marine versions. Consult Dixon for more information.



Safety Break-Away Couplings - Breaking Bolt Series How It Works

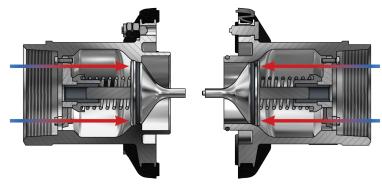
The SBCouplings, safety break-away couplings, have three external break bolts. In the case of axial tension all of the bolts take up the force corresponding to the break force on the hose with a safety margin.

Non-axial forces concentrate the tension forces more strongly on one bolt, so that the safety break-away coupling reacts in a natural way to the reduction of the hose break forces.



BEFORE emergency disconnect

The safety break-away valve consists of two halves, each with a valve that has a o-ring seal.



AFTER emergency disconnect

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

Safety Break-Away Couplings - Breaking Bolt Series

Break loads for bolts should be based upon information specific to the application such as weight of unsupported hose or pipe and angle of pull associated with the specific application. Contact Dixon regarding specific applications.

ratings and kits for the standard aluminum industrial breaking bolt series

Size	Used On	LAL and in a	Davida Farra	Kits		
	Aluminum	kN rating	Pounds Force	Standard Bolt	FKM O-ring	
2"	SBC200AL	9 kN	2,000	S-N2D-44-9	O-ND2-01	
3"	SBC300AL	15 kN	3,000	S-N4D-44-15	O-ND4-01	
4"	SBC400AL	24 kN	5,400	S-N5D-44-24	O-ND5-01	
5"	SBC500AL	37 kN	8,300	S-NVD-44-37	O-NVD-01	
6"	SBC600AL	54 kN	12,000	S-N6D-44-54	O-N6D-01	
6"	SBC600ALFL	54 kN	12,000	S-N6D-44-54	O-N6D-01	

ratings and kits for the standard stainless steel industrial breaking bolt series

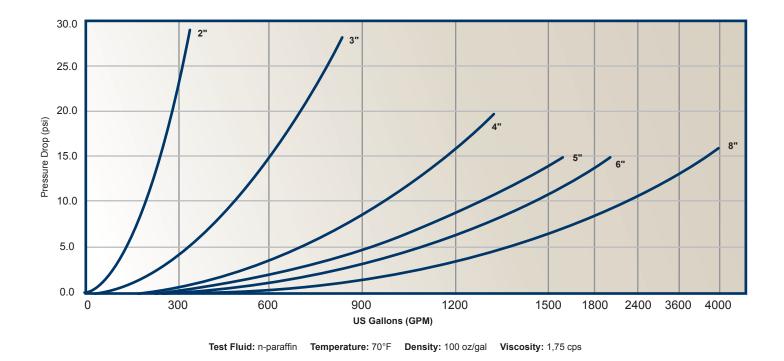
Size	Used On	kN rating	Pounds Force	Kits		
	Stainless Steel	kN rating	Founds Force	Standard Bolt	FKM O-ring	
2"	SBC200SS	13 kN	2900	S-N2D-44	O-ND2-01	
3"	SBC300SS	33 kN	7500	S-N4D-44	O-ND4-01	
4"	SBC400SS	52 kN	11,700	S-N5D-44	O-ND5-01	
5"	SBC500SS	81 kN	18,200	S-NVD-44	O-NVD-01	
6"	SBC600SS	92 kN	20,700	S-N6D-44	O-N6D-01	
6"	SBC600SSFL	92 kN	20,700	S-N6D-44	O-N6D-01	
8"	SBC800SSFL	165 kN	37,000	S-N8D-44	O-N8D-01	

ratings and kits for the standard marine breaking bolt series

Size	Used On Stainless Steel	kN rating	Pounds Force	Kits	
				Standard Bolt	FKM O-ring
2"	MSBC200SS	13 kN	2900	S-N2M-44	O-ND2-01
3"	MSBC300SS	33 kN	7500	S-N4M-44	O-ND4-01
4"	MSBC400SS	52 kN	11,700	S-N5M-44	O-ND5-01
5"	MSBC500SS	81kN	18,200	S-NVM-44	O-NVM-01
6"	MSBC600SS	92 kN	20,700	S-N6M-44	O-N6M-01
6"	MSBC600SSFL	92 kN	20,700	S-N6M-44	O-N6M-01
8"	MSBC800SSFL	165 kN	37,000	S-N8M-44	O-N8M-01



Safety Break-Away Couplings Flow Diagram (Pressure Drop)



Product Application



products in use at a facility

Bayloc[™] Actuator Style Fittings couplers



Applications: The D2C style couplers work with the DBA adapters (*page 14*) for applications where automatic closure for the coupler is not desired. This coupler is suited to vapor recovery, suction pump line and applications where it is necessary to easily drain the hose or piping for clean out. It can also be used when product retention in hose or pipe is desired but damage from accidental spill from an open coupler is not a concern.

Features:

- 316 stainless steel body
- 304 stainless steel internal components
- EZ Boss-Lock cam arms
- stainless steel locking lever included
- available with Buna, FKM, FKM-B, EPDM, PTFE encapsulated Silicone and PTFE encapsulated FKM seals

Size	Seal Material	Stainless Steel
11⁄2"	Dune	D2C71-150
2"	Buna	D2C71-200
11⁄2"		D2C72-150
2"	FKM	D2C72-200
11⁄2"	PTFE encapsulated	D2C73-150
2"	Silicone	D2C73-200
11⁄2"	EPDM	D2C74-150
2"	EPDIVI	D2C74-200
11⁄2"		D2C77-150
2"	PTFE encapsulated FKM	D2C77-200
11⁄2"		D2C79-150
2"	FKM-B	D2C79-200

actuator style couplers

API Bottom Rack Loading Fittings

couplers

Dixon Bayco's API coupler uses a snap on connection where the coupling action is automatic upon contact with the API adapter. The coupler is completely modular so it can be built with various face seal combinations to be compatible with different alternative fuel, performance levels and applications. Two models are available: bonded nose seal and replaceable nose seal.

Features:

- 4" TTMA inlet mounting flange
- 5 cam design for easy alignment and tight connection
- ball-end handle for easy, comfortable operation
- no special tools needed for maintenance
- shaft seals can be changed without removing coupler from loading arm
- fully compliant with API RP1004:2003 specifications
- fully interlocked collar can not be opened when connected and • can not be disconnected when opened
- one piece bonded nose seal ensures long life and cannot be washed out
- optional replaceable nose seal for guick replacement without • removal from loading arm
- body: hard coated anodized AL 356 T6
- shroud: hard coated anodized AL 356 T6 with stainless steel insert

API couplers

- link, shaft, pin and crank: hardened 17-4PH stainless steel
- cam: CF8M stainless steel
- poppet and bearing: ZA-12
- seal options: Buna, FKM-B, FKM GFLT
- weight: 20 lbs.
- maximum working pressure: 150 PSI
- peak surge pressure: 350 PSI
- · operating temperature: FKM seals: -20°F to +400°F Buna seals: -20°F to +250°F
- maximum flow rate: 600 GPM
- pressure drop: 3 to 4 PSI

Seal Material	Bonded Nose Seal #	Replaceable Nose Seal #					
Buna	5300	5400					
FKM-B	5300B	5400B					
FKM GFLT	5300G	5400G					
FKM-B with stainless wave spring	5300BC						

FKM-B with stainless wave spring

Chemical Compatibility (Buna seals):

Chemical Compatibility

- gasoline •
- diesel •
- 10% ethanol
- B2 biodiesel blends

(FKM-B seals):

- gasoline
- diesel
- jet fuel
- avgas
- 100% ethanol
- 100% methanol
- 100% biodiesel
- any blend of the above fluids



bonded nose seal model - 5300



More Information on **Dry Disconnect Products**



Dixon Customer Service





Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's range includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining and manufacturing.

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