

Dry Disconnects



The Right Connection™

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Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products only for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to Size, Temperature, Application, Media, and Pressure when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, www.osha.gov.)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

Features & Benefits

When your product is:

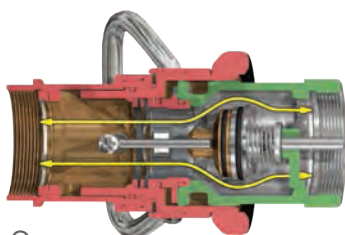
- expensive
- expensive to clean up
- expensive to reprocess or dispose
- hazardous to workers or the environment
- prone to accidental spillage and product loss



Dry disconnect couplings are designed for quick and spill free connection and disconnection of hoses and pipelines. They 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.

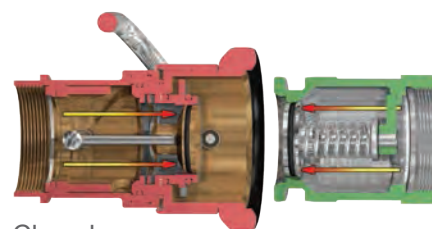
- easy to handle - push and turn - free flow, turn and pull - closed
 - time saving - no need to drain hoses or pipe systems
 - economical - no loss or spillage of liquids at connection or disconnection
 - safety - the valve cannot be opened until the unit is coupled
 - environment friendly - accidental spillage eliminated
 - safe and reliable - due to rugged construction
 - product life - uncomplicated design and high quality materials ensures longer product life
 - selectivity - To avoid product contamination caused by connecting a coupler to the wrong adapter, selective versions of the 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®
- Working Pressure -
 - aluminum: **260 PSI**
 - brass/ gunmetal: **360 PSI**
 - stainless steel: **360 PSI**
 - Optional seals:
 - EPDM
 - NBR - nitrile
 - Kalrez®
 - Chemraz®
 - Perlast®

How It Works



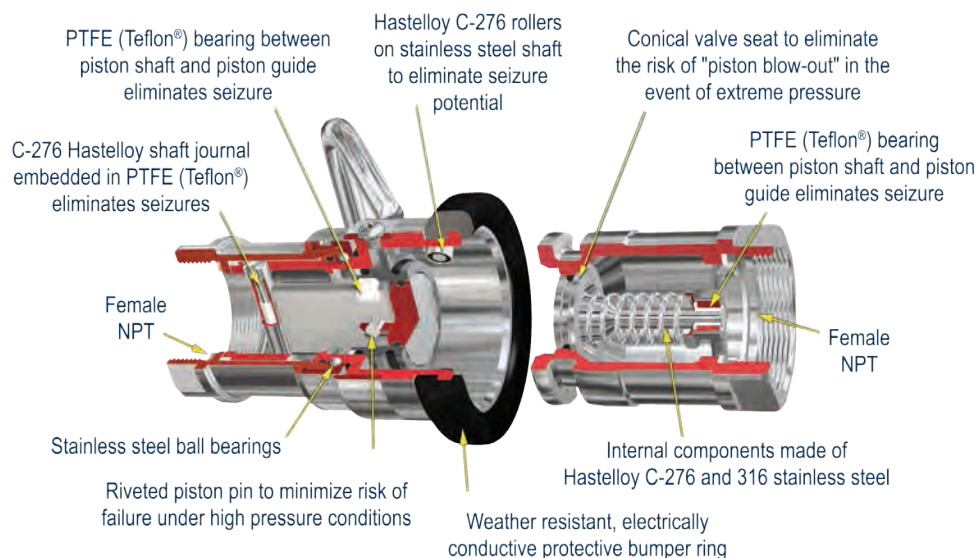
Open:

- Push and turn
it's coupled - full flow



Closed:

- Turn and pull
it's released - no spillage



DDC200SS pictured

Dry Disconnects

Hose Unit



female NPT x coupler - aluminum
3/4" and 1" design



female NPT x coupler - brass
1 1/2" and 2" design



female NPT x coupler - stainless steel
3" and 4" design



female NPT x coupler - aluminum
6" design

- coupler has built-in swivel
- 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 www.dixonvalve.com

dry quick disconnect couplers x female NPT with Viton® seals

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

Dust Plugs

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

composite dust plugs for couplers

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

¹ 6" dust plug is aluminum



composite plug

Dry Disconnects

Tank Unit

- adapter is usually installed on the tank or manifold
- conical valve seat eliminates 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 www.dixonvalve.com

dry quick disconnect adapters x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel	Anodized Aluminum	Brass / Gunmetal
¾"	56 mm	DDA075SS	DDA075AL	DDA075BR
1"	56 mm	DDA100SS	DDA100AL	DDA100BR
1½"	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	---

dry quick disconnect adapters x 150# ASA flange with Viton® seals

150# ASA	Body Size	316 Stainless Steel	Anodized Aluminum	Brass / Gunmetal
¾"	56 mm	DDA075SSFL	---	---
1"	56 mm	DDA100SSFL	DDA100ALFL	DDA100BRFL
1½"	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	---

dry quick disconnect adapters x TTMA flange with Viton® seals

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

Construction:

- 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



adapter x female NPT - DDA100BR



adapter x 150# ASA flange - DDA200SSFL



adapter x TTMA flange - DDA300AL119TTMA

Dust Caps

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

dust caps for adapters

Size	Body Size	Polyeten PE-HD 300	Rubber
¾" and 1"	56 mm	DDDC075	DGDC100
1½" and 2"	70 mm	DDDC150	DGDC200
3"	105 mm	DDDC300105	---
3"	119 mm	DDDC300	---
4"	164 mm	DDDC400	---
6"	238 mm	DDDC600 ¹	---

¹ 6" dust plug is aluminum



composite cap



rubber cap

Dry Aviation Couplings

Hose Unit

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.**

Technical Information:

- 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 coupling ring minimizes the risk of seizure
- 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

aviation couplers x female NPT with Viton® seals

Female NPT	Body Size	Aluminum
2½"	ISO 45	DAC250AL
3"	ISO 45	DAC300AL

aviation couplers x female BSP with Viton® seals

Female BSP	Body Size	Aluminum
2½"	ISO 45	DAC250ALBSP
3"	ISO 45	DAC300ALBSP

Sight Flow Indicators



sight flow indicator - ASFI25T25B

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

aviation sight flow indicator with filter / screen

Female Thread	Male Thread	Aluminum
2½" NPT	2½" BSP	ASFI25T25B
3" NPT	3" BSP	ASFI30T30B
2½" NPT	2½" NPT	ASFI25T25T
3" NPT	3" NPT	ASFI30T30T

Dust Plugs



composite plug

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

composite dust plug for couplers

Size	Body Size	Polyeten PE-HD 300
2½"	ISO 45	DADP250

Dry Aviation Couplings

Tank Unit

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.**

- stainless steel bayonet flange 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

Technical Information:

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

aviation adapters x female NPT with Viton® seals

Female NPT	Body Size	Aluminum
2½"	ISO 45	DAA250AL
3"	ISO 45	DAA300AL



adapter x female NPT - DAA250AL

aviation adapters x 150# ASA flange with Viton® seals

Female BSP	Body Size	Aluminum
2½"	ISO 45	DAA250ALFL
3"	ISO 45	DAA300ALFL



adapter x 150# ASA flange - DAA250ALFL

Dust Caps

- 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
2½"	ISO 45	DADC250



composite cap

Dry Gas Couplings

Hose Unit

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.

Technical Information:

- stainless steel and brass / gunmetal
- NBR90 seals
- female NPT and ASA flanges
- **360 PSI** working pressure

- safe handling of LPG
- easy to use and saves time
- 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
- compatible with existing dry disconnect couplings



dry gas couplers x female NPT with NBR90 seals

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

Dust Plugs

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



composite dust plugs for couplers

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

Dry Gas Couplings

Tank Unit

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.

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- compatible with existing dry disconnect couplings

Technical Information:

- stainless steel and brass / gunmetal
- NBR90 seals
- female NPT and ASA flanges
- **360 PSI** working pressure

dry gas adapters x female NPT with NBR90 seals

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



adapter x female NPT - DGA200SS

dry gas adapters x 150# ASA flange with NBR90 seals

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



adapter x 150# ASA flange - DGA200SSFL

Dust Caps

dust caps for adapters

Size	Body Size	Rubber
1"	56 mm	DGDC100
2"	71 mm	DGDC200
3"	119 mm	DGDC300



rubber cap

Cam & Groove Style Dry Disconnect Couplings

Couplers

**SAFETY
ALERT**

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

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

Working Pressure:

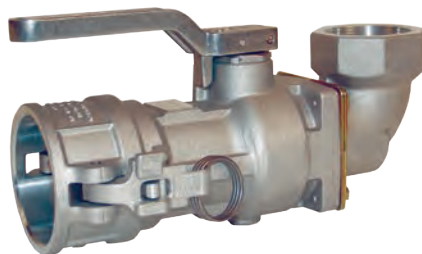
- 1½" **210 PSI @ 70°**
- 2" **150 PSI @ 70°**
- 3" **120 PSI @ 70°**



coupler x female NPT - DBC71-200



coupler x female NPT - DBC61-300



coupler x 90° swivel female NPT - DSB61-200



locking kit - DBCL200

- dry disconnect coupler has automatic closing poppet assembly
- heavy duty stainless steel crank and link provide long service life
- stainless steel handle allows product exposure to corrosive chemicals or washdown service
- strong handle attachment prevents bending of crank assembly
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have stainless steel¹ internals
- for pressure ratings at other temperatures, contact the factory
- Dixon EZ Boss-Lock cam arms standard on all fittings, provide high security from accidental opening due to vibration or snagging
- large paddle type cam arms standard on 3" fittings, allow for an easy grip
- for information on repair kits visit us on-line at www.dixonvalve.com

coupler x female NPT

Female NPT	Coupler Size	Seal Material	Aluminum		Stainless Steel ¹	
			Dixon #	OPW #	Dixon #	OPW #
1½"	2"	Buna	DBC61-150	1711D-AL15/1761	DBC71-150	1771D-SS15
2"	2½"		DBC61-200	1711D-AL20/1761	DBC71-200	1771D-SS20
3"	4"		DBC61-300	1711D-AL30	DBC71-300	1771D-SS30
1½"	2"	Viton®	DBC62-150	1712D-AL15/1762	DBC72-150	1772D-SS15
2"	2½"		DBC62-200	1712D-AL20/1762	DBC72-200	1772D-SS20
3"	4"		DBC62-300	1712D-AL30	DBC72-300	1772D-SS30
1½"	2"	PTFE Encap. Silicone and Kalrez®	DBC63-150	1763D-AL15	DBC73-150	1773D-SS15
2"	2½"		DBC63-200	1763D-AL20	DBC73-200	1773D-SS20
3"	4"		DBC63-300	1763D-AL30	DBC73-300	1773D-SS30
1½"	2"	EPT	DBC64-150	1764D-AL15	DBC74-150	1774D-SS15
2"	2½"		DBC64-200	1764D-AL20	DBC74-200	1774D-SS20
3"	4"		DBC64-300	1764D-AL30	DBC74-300	1774D-SS30
1½"	2"	Kalrez® and PTFE ²	---	---	DBC76-150	1776D-SS15
2"	2½"		DBC66-200	1766D-AL20	DBC76-200	1776D-SS20
3"	4"		---	---	DBC76-300	1776D-SS30
1½"	2"	PTFE Encap. Viton® and Kalrez®	DBC67-150	1777D-AL15	DBC77-150	1777D-SS15
2"	2½"		DBC67-200	1777D-AL20	DBC77-200	1777D-SS20
3"	4"		DBC67-300	1777D-AL30	DBC77-300	1777D-SS30
3"	4"	Viton® B	DBC69-300	1769D-AL30	DBC79-300	1779D-SS30

greaseless coupler x female NPT

Female NPT	Coupler Size	Seal Material	Aluminum	Stainless Steel
1½"	2"	PTFE Encap. Viton® and Kalrez®	DBC67-150-GL	DBC77-150-GL
2"	2½"		DBC67-200-GL	DBC77-200-GL
3"	4"		DBC67-300-GL	DBC77-300-GL

coupler x 90° swivel female NPT

Female NPT	Coupler Size	Seal Material	Aluminum	
			Dixon #	OPW #
2"	2½"	Buna	DBS61-200	1711ES-0200
2"	2½"	Viton®	DBS62-200	1712ES-0200
2"	2½"	PTFE Encap. Silicone and Kalrez®	DBS63-200	---

Locking Kit

- prevents unintentional opening of poppet assembly

locking kit for couplers

Description	Aluminum
for use with 1½" and 2" cam and groove couplers	DBCL-200
for use with 3" cam and groove couplers	DBCL-300

Cam & Groove Style Dry Disconnect Couplings

Adapters

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.

- 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 www.dixonvalve.com

¹ stainless steel corrosion resistance is comparable to 304 stainless steel

Working Pressure:

- 1½" **210 PSI @ 70°**
- 2" **150 PSI @ 70°**
- 3" **120 PSI @ 70°**

adapter x female NPT

Female NPT	Adapter Size	Seal Material	Aluminum		Stainless Steel ¹	
			Dixon #	OPW #	Dixon #	OPW #
1½"	2"	Buna	DBA11-150	1611AN-AL15	DBA71-150	1671AN-SS15
2"	2½"		DBA11-200	1611AN-AL20	DBA71-200	1671AN-SS20
3"	4"		DBA11-300	1611AN-AL30	DBA71-300	1671AN-SS30
1½"	2"	Viton®	DBA12-150	1612AN-AL15	DBA72-150	1672AN-SS15
2"	2½"		DBA12-200	1612AN-AL20	DBA72-200	1672AN-SS20
3"	4"		DBA12-300	1612AN-AL30	DBA72-300	1672AN-SS30
1½"	2"	PTFE Encap. Silicone	DBA63-150	1613AN-AL15	DBA73-150	1673AN-SS15
2"	2½"		DBA63-200	1613AN-AL20	DBA73-200	1673AN-SS20
3"	4"		DBA63-300	1613AN-AL30	DBA73-300	1673AN-SS30
1½"	2"	EPT	DBA64-150	1614AN-AL15	DBA74-150	1674AN-SS15
2"	2½"		DBA64-200	1614AN-AL20	DBA74-200	1674AN-SS20
3"	4"		DBA64-300	1614AN-AL30	DBA74-300	1674AN-SS30
1½"	2"	Kalrez®	DBA66-150	1616AN-AL15	DBA76-150	1676AN-SS15
2"	2½"		DBA66-200	1616AN-AL20	DBA76-200	1676AN-SS20
3"	4"		DBA66-300	1616AN-AL30	DBA76-300	1676AN-SS30
1½"	2"	PTFE Encap. Silicone	---	---	DBA77-150	1677AN-SS15
2"	2½"		---	---	DBA77-200	1677AN-SS20
3"	4"		---	---	DBA77-300	1677AN-SS30
3"	4"	Viton® B	DBA69-300	1619AN-AL30	---	---



adapter x female NPT - DBA71-200



adapter x female NPT - DBA11-300

jump size adapter x female NPT

Female NPT	Adapter Size	Seal Material	Aluminum	
			Dixon #	OPW #
2"	2"	Buna	DBA11-1520	---
2"	2"	Viton®	DBA12-1520	---

vapor adapter x female NPSM

Female NPSM	Adapter Size	Seal Material	Stainless Steel ¹	
			Dixon #	OPW #
3"	2"	PTFE	DBAV73-2030	2173AVN



vapor adapter x female NPSM - DBAV73-2030

Bayonet Style Dry Disconnect Couplings

Couplers

Bayco brand BA and BS series bayonet dry disconnect fittings are designed for use in the fuel and lube oil service industry. These fittings are compatible with Emco Wheaton™ Dry Break™.

Working Pressure:

- 2" **80 PSI @ 70°**
- 3" **80 PSI @ 70°**
- for pressure ratings at other temperatures contact the factory
- for information on repair kits visit us on-line at www.dixonvalve.com



coupler x straight female NPT - BC62-200



coupler x straight swivel female NPT - BSS62-200



coupler x straight swivel female NPT - BSS62-300



coupler x 90° swivel female NPT - BS62-200



coupler x 90° swivel female NPT - BS62-300

bayonet style coupler x straight female NPT

Size	Seal Material	Anodized Aluminum	
		Dixon #	Emco Wheaton™ #
2"	Buna	BC61-200	J72C-ABN0-B
2"	Viton®	BC62-200	J72C-AVN0-B

bayonet style coupler x straight swivel female NPT

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

bayonet style coupler x 90° swivel female NPT

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

Bayonet Style Dry Disconnect Couplings

Adapters

Bayco brand BA and BS series bayonet dry disconnect fittings are designed for use in the fuel and lube oil service industry. These fittings are compatible with Emco Wheaton™ Dry Break™.

Working Pressure:

- 2" **80 PSI @ 70°**
- 3" **80 PSI @ 70°**
- for pressure ratings at other temperatures contact the factory
- for information on repair kits visit us on-line at www.dixonvalve.com

bayonet style adapter x female NPT

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



adapter x female NPT - BA32-200

bayonet style adapter x female NPT

Size	Seal Material	Brass	
		Dixon #	Emco Wheaton™ #
3"	Buna	BA31-300	J73A-BBN0-B
3"	Viton®	BA32-300	J73A-BVN0-B



adapter x female NPT - BA31-300

bayonet style adapter x female NPT

Size	Seal Material	Aluminum	
		Dixon #	Emco Wheaton™ #
3"	Buna	BA61-300	J73A-ABN0-B
3"	Viton®	BA62-300	J73A-AVN0-B



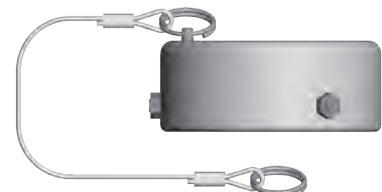
adapter x female NPT - BA62-300

Dust Caps

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

composite dust cap for adapters

Size	Body Size	Polyeten PE-HD 300
2"	70 mm	DDDC150
3"	105 mm	DDDC300105

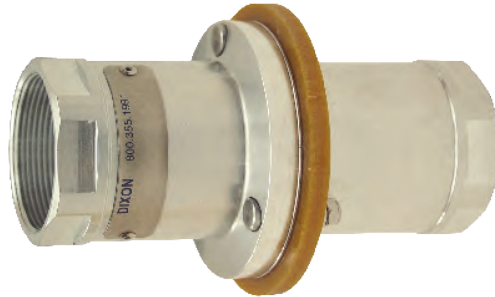


composite cap

Safety Break-Away Couplings - Breaking Bolt Series

Industrial

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



SBC200AL - aluminum

- coupling automatically senses an excessive load, closes the valves and disconnects
- simple mechanism, no loose components lost after release
- high flow rate / low pressure drop
- female NPT is standard, optional ANSI / DIN flanges are available
- Viton® is standard seal
- for information on repair kits visit us on-line at www.dixonvalve.com

Working Pressure:

- stainless steel **360 PSI**
- aluminum **230 PSI**

industrial breaking bolt series

Size	DN	Flow Rate GPM	Width	Length	Weight lbs.		316 Stainless Steel	Aluminum
					SS	AL		
2"	50	300	4.5"	7"	5	3	SBC200SS	SBC200AL
3"	80	650	6.2"	11"	18	8	SBC300SS	SBC300AL
4"	100	900	7.9"	12"	34	14	SBC400SS	SBC400AL
6"	150	1500	12	16	101	35	SBC600SS	SBC600AL

Optional 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 also 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 the factory for more information.

Safety Break-Away Couplings - Breaking Bolt Series

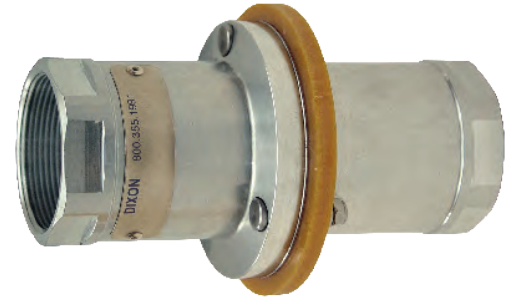
Marine

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

- 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
- release is executed when force causes bolts to break
- female NPT is standard, optional ANSI / DIN flanges are available
- Viton® is standard seal
- for information on repair kits visit us on-line at www.dixonvalve.com

Working Pressure:

- stainless steel **360 PSI**



MSBC200SS - stainless steel

marine breaking bolt series

Size	DN	Flow Rate GPM	Width	Length	Weight lbs.	316 Stainless Steel
2"	50	300	4.5"	7"	5.7	MSBC200SS
3"	80	650	6.2"	11"	18.8	MSBC300SS
4"	100	900	7.9"	12"	34.1	MSBC400SS
6"	150	1500	12	16	101	MSBC600SS
8"	call for information					MSBC800SS

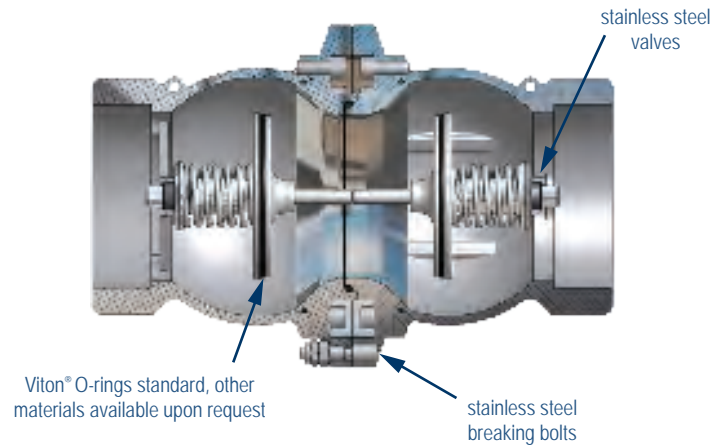
Optional Non-Closure Design

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 also 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 the factory for more information.

Safety Break-Away Couplings - Breaking Bolt Series

Key Features



How It Works



The safety break-away coupling consists of two halves, each with a valve that has a flat type-sealing surface similar to a dry disconnect coupling.

When the safety break-away couplings separate, it allows the poppets to close. The two poppets close rapidly, minimizing exposure to personnel and the environment.

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 industrial breaking bolt series

Size	Used On	kN rating	Pounds Force	Kits	
				Standard Bolt	Viton® O-ring
2"	SBC200AL	13 kN	2900	S-ND2-44	O-ND2-01
3"	SBC300AL	33 kN	7500	S-ND4-44	O-ND4-01
4"	SBC400AL	52 kN	11,700	S-ND5-44	O-ND5-01
6"	SBC600AL	92 kN	20,700	S-ND7-44	O-ND7-01

ratings and kits for the standard marine breaking bolt series

Size	Used On	kN rating	Pounds Force	Kits	
				Standard Bolt	Viton® O-ring
2"	MSBC200SS	13 kN	2900	S-ND2-44	O-ND2-01
3"	MSBC300SS	33 kN	7500	S-ND4-44	O-ND4-01
4"	MSBC400SS	52 kN	11,700	S-ND5-44	O-ND5-01
6"	MSBC600SS	92 kN	20,700	S-ND7-44	O-ND7-01

Safety Break-Away Couplings - Industrial Breaking Bolt Series



Examples of Connection Combinations

- BSP female thread / BSP female thread
- male thread / male thread
- victaulic / victaulic
- flange / flange
- NPT female thread / NPT female thread
- NPT female thread / NPT male thread (also available with BSP)
- NPT female thread / victaulic
- flange / thread (BSP / NPT female/male and victaulic)

Range of Applications

Industrial

- plant engineering and construction
- power plant construction
- chemical industry
- food processing industry
- process technology
- tank cleaning

Filling Systems For:

- airfields
- railcars
- tanker trucks
- ship
- tank containers
- filling and emptying liquid gas (LPG)

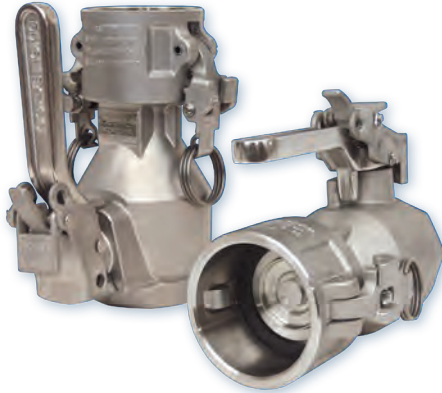
Media

- lyes and acids
- fuels and oils
- sea water
- tap water, waste water
- toxic liquid
- gases, compressed air
- superheated steam
- powders, dust
- foodstuffs
- pharmaceutical products
- LPG/LNG CNG
- materials hazardous to the environment

Cam and Groove Actuator Style Fittings

coupler

The D2C style couplers work with the DBA adapters 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 open coupler is not a concern.



1½" and 2" - stainless steel

- 316 stainless steel body
- 304 stainless steel internal components
- EZ Boss-Lock cam arms
- stainless steel locking lever included
- available with Buna, Viton®, Viton-B®, EPDM, Kalrez®, PTFE encapsulated Silicone and PTFE encapsulated Viton® seals
- used with poppeted adapter DBA series on page 11

actuator style couplers

Size	Seal Material	Stainless Steel
1½"	Buna	D2C71-150
2"		D2C71-200
1½"	Viton®	D2C72-150
2"		D2C72-200
1½"	PTFE encapsulated Silicone	D2C73-150
2"		D2C73-200
1½"	EPDM	D2C74-150
2"		D2C74-200
1½"	PTFE encapsulated Viton®	D2C76-150
2"		D2C76-200
1½"	Kalrez®	D2C77-150
2"		D2C77-200
1½"	Viton-B®	D2C79-150
2"		D2C79-200

API Bottom Rack Loading Fittings

coupler

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.

- 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 quick replacement without removal from loading arm

Material Specifications:

- body: hard coated anodized AL 356 T6
- shroud: hard coated anodized AL 356 T6 with stainless steel insert
- link, shaft, pin and crank: hardened 17-4PH stainless steel
- cam: CF8M stainless steel
- poppet and bearing: ZA-12
- seal options: Baylast, Viton-B®, Viton® GFLT

Technical Specifications:

- weight: 20 lbs.
- maximum working pressure: **150 PSI**
- peak surge pressure: 350 PSI
- operating temperature:
 - Viton® seals: **-20°F to +400°F**
 - Baylast seals: **-20°F to +250°F**
- maximum flow rate: 600 GPM
- pressure drop: 3 to 4 PSI

API couplers

Seal Material	Bonded Nose Seal #	Replaceable Nose Seal #
Baylast	5300	5400
Viton-B®	5300B	5400B
Viton® GFLT	5300G	5400G



bonded nose seal model - 5300

Chemical Compatibility (Baylast seals):

- gasoline
- diesel
- avgas
- 100% ethanol
- 100% methanol
- B2 to B20 biodiesel blends

Chemical Compatibility (Viton-B® seals):

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

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



The Right Connection™

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