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 Manufacturers (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 877.963.4968 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, agriculture 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 ensure 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

How It Works
Open:  
- Push and turn it’s coupled - full flow

Closed:
- Turn and pull it’s released - no spillage

PTFE bearing between piston shaft and piston guide eliminates seizure

C-276 Hasselby shaft journal embedded in PTFE eliminates wear

Stainless steel ball bearings

Revised piston pin to minimize risk of failure under high pressure conditions

Hasselby C-276 liners on stainless steel shaft to eliminate secure potential

Conical valve seat to eliminate the risk of piston blow-out in the event of extreme pressure

PTFE bearing between piston shaft and piston guide eliminates seizure

Internal components made of Hastelloy C-276 and 316 stainless steel

Weather resistant, electrically conductive protective bumper ring

DDC200SS pictured
Dry Disconnects

**Coupler - Hose Unit**

**Features:**
- Coupler has built-in swivel
- Stainless steel ball bearings
- Shaft journal is stainless steel embedded in PTFE to eliminate seizure
- Tapped piston 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

**Features:**
- Composite cap

**Dust Plugs for Couplers**

<table>
<thead>
<tr>
<th>Size</th>
<th>Polyethylene PE-HD 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>DDPP075</td>
</tr>
<tr>
<td>1½”</td>
<td>DDPP150</td>
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<tr>
<td>2”</td>
<td>DDPP300/105</td>
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<td>DDPP238</td>
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1 6” dust plug is aluminum

**Dust Caps for Adapters**

<table>
<thead>
<tr>
<th>Size</th>
<th>Polyethylene PE-HD 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½”</td>
<td>DDC075</td>
</tr>
<tr>
<td>2”</td>
<td>DDC150</td>
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<tr>
<td>3”</td>
<td>DDC300</td>
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<tr>
<td>4”</td>
<td>DDC400</td>
</tr>
<tr>
<td>6”</td>
<td>DDC600</td>
</tr>
</tbody>
</table>

1 6” dust cap is aluminum

**Dixon 877.963.4966**

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Dry 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 bearing 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

**Features:**
- Composite (Polyethylene PE-HD 300) caps provide good protection against corrosion and withstands hot and cold environments
- FKM (FKM) gaskets standard on polyethylene caps

**Dust Caps for Adapters**

<table>
<thead>
<tr>
<th>Size</th>
<th>Polyethylene PE-HD 300</th>
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<tbody>
<tr>
<td>1½”</td>
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<tr>
<td>3”</td>
<td>DDC300</td>
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<tr>
<td>4”</td>
<td>DDC400</td>
</tr>
<tr>
<td>6”</td>
<td>DDC600</td>
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</table>

1 produced to U.S. government bronze specification G

**Polyethylene PE-HD 300**

---

Dry Disconnects
Dry Aviation Couplings
Coupler - Hose 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:
• 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

---

Dry Aviation Couplings
Coupler - Hose Unit

Features:
• stainless steel ball bearings
• gunmetal (produced to U.S. government bronze specification G) 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

---

Dry Aviation Couplings
Coupler - Hose Unit

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

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

---

Dry Aviation Couplings
Adapter - Tank Unit

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

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Dry Aviation Couplings
Adapter - Tank Unit

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

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Dry Aviation Couplings
Adapter - Tank Unit

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

Dust Caps
Dust Plugs for Couplers

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Body Size</th>
<th>Polyeten PE-HD 300</th>
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<tbody>
<tr>
<td>1&quot;</td>
<td>56 mm</td>
<td>DGDC100SS</td>
</tr>
<tr>
<td>2&quot;</td>
<td>71 mm</td>
<td>DGDC200SS</td>
</tr>
<tr>
<td>3&quot;</td>
<td>119 mm</td>
<td>DGDC300SS</td>
</tr>
</tbody>
</table>

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:
• 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 NPT, female ACME thread and ASA flanges
• minimizes spillage and product loss
• 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 NPT, female ACME thread and ASA flanges
• safe handling of LPG
• can be connected against higher pressure
• minimizes the risk of cold burns
• keeps the environment free of hazardous vapors and liquids

<table>
<thead>
<tr>
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<th>Body Size</th>
<th>Stainless Steel</th>
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<tr>
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<td>DGA100SS</td>
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<tr>
<td>2&quot;</td>
<td>71 mm</td>
<td>DGA200SS</td>
</tr>
<tr>
<td>3&quot;</td>
<td>119 mm</td>
<td>DGA300SS</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Female ACME</th>
<th>Body Size</th>
<th>Stainless Steel</th>
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<tbody>
<tr>
<td>1¼&quot;</td>
<td>56 mm</td>
<td>DGA100SS175</td>
</tr>
<tr>
<td>3¼&quot;</td>
<td>71 mm</td>
<td>DGA200SS325</td>
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<table>
<thead>
<tr>
<th>150# ASA</th>
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<th>Stainless Steel</th>
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</thead>
<tbody>
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<td>1&quot;</td>
<td>56 mm</td>
<td>DGA100SSFL</td>
</tr>
<tr>
<td>2&quot;</td>
<td>71 mm</td>
<td>DGA200SSFL</td>
</tr>
<tr>
<td>3&quot;</td>
<td>119 mm</td>
<td>DGA300SSFL</td>
</tr>
</tbody>
</table>

Dust Caps
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 house 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 1½” and 2”, contact Dixon
- couplers supplied with double handles

<table>
<thead>
<tr>
<th>Size</th>
<th>Socket diameter Total spill 10 cycles</th>
<th>Average spill 1 cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>DN 25 56 mm 1 ml</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>2”</td>
<td>DN 50 70 mm 3 ml</td>
<td>0.3 ml</td>
</tr>
<tr>
<td>2½”</td>
<td>DN 65 105 mm 8 ml</td>
<td>0.8 ml</td>
</tr>
<tr>
<td>3”</td>
<td>DN 80 119 mm 10 ml</td>
<td>1.0 ml</td>
</tr>
<tr>
<td>4”</td>
<td>DN 100 164 mm 35 ml</td>
<td>3.5 ml</td>
</tr>
</tbody>
</table>

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.

Options for Hose and Tank Units

Electronic Sensors

Detect the position of the driving plate inside of the hose unit.

No modification on the tank is required. This makes it possible to identify if the hose unit is connected to a tank unit and if they are in an open position.

Dry Disconnect Couplings

Flow Rate
- Media: Water
- Temp: 60° F

GPM (US Gallons)

[Graph showing pressure drop vs. GPM]

Dry Disconnect Fittings

adapter x female NPT

<table>
<thead>
<tr>
<th>Female NPT</th>
<th>Body Size</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4”</td>
<td>56mm</td>
<td>DDSA075SS</td>
</tr>
<tr>
<td>1”</td>
<td>56mm</td>
<td>DDSA100SS</td>
</tr>
<tr>
<td>1½”</td>
<td>70mm</td>
<td>DDSA150SS</td>
</tr>
<tr>
<td>2”</td>
<td>70mm</td>
<td>DDSA200SS</td>
</tr>
</tbody>
</table>

coupler x female NPT

<table>
<thead>
<tr>
<th>Female NPT</th>
<th>Body Size</th>
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<td>70mm</td>
<td>DDSC150SS</td>
</tr>
<tr>
<td>2”</td>
<td>70mm</td>
<td>DDSC200SS</td>
</tr>
</tbody>
</table>

Female NPT x adapter

Female NPT x coupler
Dry Disconnect Couplings

Options for Hose and Tank Units

**Selectivity Options**

Selectivity versions of Hose and Tank units are available to prevent the accidental mixing of media.

The Tank units are furnished with slots and the Hose unit with pins that interlock upon connection.

A number of selectivity options are possible depending on coupling size.

**Handle Options**

Optional handles are available for 1”-4” Hose couplers. 2” Hose unit shown.

**Locking Devices**

Locking Devices eliminate the unintentional disconnection when subjected to vibration from transfer pumps

---

<table>
<thead>
<tr>
<th>Female NPT</th>
<th>Coupler x female NPT</th>
<th>Seal Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½”</td>
<td>Buna</td>
<td>DBC61-150</td>
<td>PTFE Encap.</td>
</tr>
<tr>
<td>2”</td>
<td>2½”</td>
<td>DBC61-200</td>
<td>FKM</td>
</tr>
<tr>
<td>3”</td>
<td>4”</td>
<td>DBC61-300</td>
<td>FFPM</td>
</tr>
<tr>
<td>4”</td>
<td>4½”</td>
<td>DBC61-400</td>
<td>EPT</td>
</tr>
<tr>
<td>5”</td>
<td>5½”</td>
<td>DBC61-500</td>
<td>FPM and PTFE</td>
</tr>
</tbody>
</table>

---

**Dry Disconnect Couplings**

**Options for Hose and Tank Units**

- **Selectivity Options**
  - A number of selectivity options are possible depending on coupling size.
  - Selectivity versions of Hose and Tank units are available to prevent the accidental mixing of media.

- **Handle Options**
  - Optional handles are available for 1”-4” Hose couplers. 2” Hose unit shown.

- **Locking Devices**
  - Locking Devices eliminate the unintentional disconnection when subjected to vibration from transfer pumps.

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**Dry Disconnect Couplings**

**Options for Hose and Tank Units**

- **Selectivity Options**
  - A number of selectivity options are possible depending on coupling size.
  - Selectivity versions of Hose and Tank units are available to prevent the accidental mixing of media.

- **Handle Options**
  - Optional handles are available for 1”-4” Hose couplers. 2” Hose unit shown.

- **Locking Devices**
  - Locking Devices eliminate the unintentional disconnection when subjected to vibration from transfer pumps.

---

**Dry Break Cam & Groove Style 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 handle allows product exposure to corrosive chemicals or washed down service
- strong handle attachment prevents bending of crank assembly
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have stainless steel 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 dixonvalve.com
- locking kit - DBCL-200 dust plug - G200-DP-AL

---

**Features: Locking Kit for Couplers**

- prevents unintentional opening of poppet assembly

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**Dust Plugs for Couplers**

**Features:**

- Must be used with a DBA style adapter for coupler to operate.
- Adapter sold separately. (see next page)

---

**Dust Plugs for Couplers**

**Features:**

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

---

**Dust Plugs for Couplers**

**Features:**

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

---

**Dust Plugs for Couplers**

**Features:**

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

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**Dust Plugs for Couplers**

**Features:**

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

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**Dry Disconnects - Cam & Groove**

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**Dry Disconnects - Dry Gas**

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**Dry Disconnects - Dry Gas**

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**Dry Disconnects - Cam & Groove**

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**Dry Disconnects - Dry Gas**

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**Dry Disconnects - Cam & Groove**

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**Dry Disconnects - Dry Gas**

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Dry Break Cam & Groove Style 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.

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

Female Adapter Size Seal Material
1½" 2" Buna DBA11-1520 1611AN-AL15
2" 2½" FKM DBA12-1520 1612AN-AL15
3" 4" PTFE Encap. Silicone DBA13-300 1613AN-AL30
2½" 3½" EPT DBA14-300 1614AN-AL30
3" 4½" FKM DBA15-300 1615AN-AL30

Pressure / Temperature Chart

1.5" 2.0" 3.0" Flow Rate GPM (H2O)

10.0 12.0 14.0
0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0

Vapor adapter x female NPT - DBAV73-2030

Dry Break Cam & Groove Style Dry Disconnect Couplings

Flow Chart

Vapor adapter x female NPSM - DBAV77-2030

Pressure / Temperature Chart

-1.5" - 3.0"

-20 40 60 80 100 120 140 160 180 200 220

Temperature deg F

-30 10 30 50 70 90 110 130 150 170 190

0 100 200 300 400

Dry Disconnects - Cam & Groove

Dust Caps for Adapters

Size Aluminum Stainless Steel
2" G200-DC-AL G200-DC-SS
2½" G250-DC-AL G250-DC-SS
4" G400-DC-AL G400-DC-SS
Bayonet Style Dry Disconnect Couplings

**Couplers**

**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

<table>
<thead>
<tr>
<th>Size</th>
<th>Seal Material</th>
<th>Anodized Aluminum</th>
<th>Dixon #</th>
<th>Emco Wheaton™ #</th>
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<tbody>
<tr>
<td>2&quot;</td>
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<td>BC61-200</td>
<td>JT7C-ABN0-B</td>
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</tr>
<tr>
<td>2&quot;</td>
<td>FKM</td>
<td>BC62-200</td>
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<td>BS61-300</td>
<td>JT7C-ABN1-B</td>
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<table>
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<td>BS62-200</td>
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**Dust Plugs for Couplers**

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<tr>
<td>3&quot;</td>
<td>BCP-300</td>
</tr>
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</table>

* Rubber dust plugs come with stainless steel chains.

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:**
- 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

<table>
<thead>
<tr>
<th>Size</th>
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<td>BA32-200</td>
<td>JT7A-BVN0-B / JT7A-AVN0-B</td>
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**Dust Caps for Adapters**

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</table>

* Rubber dust plugs come with stainless steel chains.
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

- stainless steel breaking bolts
- female NPT is standard, optional ASA/DIN flanges or male NPT are available
- FKM is standard seal
- stainless steel internal parts
- connections: parallel BSP threads with flat sealing surface, tapered internal NPT threads, flanges and grooves
- protecting ring in PUR (Vulkollan®)
- FKM-O-rings standard; other materials available upon request

Features:

- designed to be installed between a fixed point (pipe, pump, manifold) and a hose
- 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)
- for information on repair kits visit us on-line at dixonvalve.com

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.

- 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)
- For information on repair kits visit us on-line at dixonvalve.com

Industrial breaking bolt series

<table>
<thead>
<tr>
<th>Size</th>
<th>DN</th>
<th>Flow Rate</th>
<th>Width</th>
<th>Length</th>
<th>Weight lbs</th>
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<tr>
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<td>14&quot;</td>
<td>69.4</td>
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<tr>
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<td>12&quot;</td>
<td>16&quot;</td>
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<td>800 GPM</td>
<td>8.3&quot;</td>
<td>12.9&quot;</td>
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</tbody>
</table>

SS: Stainless Steel
AL: Aluminum

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

- 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.

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

Marine breaking bolt series

<table>
<thead>
<tr>
<th>Size</th>
<th>Flow Rate GPM</th>
<th>Width</th>
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<th>Weight lbs.</th>
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<td>14.0&quot;</td>
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<td>15.1</td>
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<td>8&quot;</td>
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<td>3700</td>
<td>13.5&quot;</td>
<td>17.7</td>
<td>302</td>
</tr>
</tbody>
</table>

\( ^1 \text{male NPT} \)

\( ^2 \text{150# flange} \)

MSBC300SS - stainless steel

Marine safety break-aways are designed to only release by inline pull and used between two strings of hose.

Dixon 877.963.4996

Dry Disconnects - Break-Away Bolt Series

Dixon 877.963.4996

Dry Disconnects - Break-Away Bolt Series
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)

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.

Bolt Series

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.
**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**

<table>
<thead>
<tr>
<th>Size</th>
<th>Used On</th>
<th>kN rating</th>
<th>Pounds Force</th>
<th>Kits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>SBC200AL</td>
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<td>SBC600ALFL</td>
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<td>S-N6D-44-54 O-N6D-01</td>
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**ratings and kits for the standard stainless steel industrial breaking bolt series**

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<tbody>
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<td>2&quot;</td>
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<td>2900</td>
<td>S-N2D-44 O-ND2-01</td>
</tr>
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<td>S-N3D-44 O-ND3-01</td>
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<tr>
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<td>SBC500SS</td>
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<tr>
<td>6&quot;</td>
<td>SBC600SSFL</td>
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<tr>
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**ratings and kits for the standard marine breaking bolt series**

<table>
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<th>Pounds Force</th>
<th>Kits</th>
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<td>MSBC300SS</td>
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<td>MSBC400SS</td>
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<td>MSBC500SS</td>
<td>81 kN</td>
<td>18,200</td>
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<tr>
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<td>MSBC600SSFL</td>
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<td>MSBC800SSFL</td>
<td>165 kN</td>
<td>37,000</td>
<td>S-N8M-44 O-N8M-01</td>
</tr>
</tbody>
</table>

**Safety Break-Away Couplings - Flow Diagram (Pressure Drop)**

Test Fluid: n-paraffin  
Temperature: 70°F  
Density: 100 oz/gal  
Viscosity: 1.75 cP

**Product Application**

products in use at a facility

Scan For more information on Dry Disconnect Repair Kits.
**Cam and Groove 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

**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:**
- 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 interlocked collar cannot be opened when connected and cannot 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
- Body: hard coated anodized AL 356 T6
- Shroud: hard coated anodized AL 356 T6 with stainless steel insert

**API couplers**

<table>
<thead>
<tr>
<th>Size</th>
<th>Seal Material</th>
<th>Stainless Steel</th>
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<td>2”</td>
<td>FKM</td>
<td>D2C71-200</td>
</tr>
<tr>
<td>1½”</td>
<td>PTFE encapsulated Silicone</td>
<td>D2C73-150</td>
</tr>
<tr>
<td>2”</td>
<td>EPDM</td>
<td>D2C74-150</td>
</tr>
</tbody>
</table>

**Chemical Compatibility (Buna seals):**
- Gasoline
- Diesel
- 10% Ethanol
- Any blend of the above fluids

**Chemical Compatibility (FKM-B seals):**
- Gasoline
- Diesel
- Jet fuel
- Avgas
- 100% Ethanol
- 100% Methanol
- 100% Biodiesel

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**More Information on Dry Disconnect Products**

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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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