

Safety Break-away Couplings - Breaking Bolt Series Industrial Version



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

Size	Width	Length	Weight in Lbs.		Flow Rate/ GPM
			stainless	aluminum	
2"	4.5"	7"	5	3	200
3"	6.8"	11"	18	8	650
4"	8.3"	12"	34	14	800
5"	10.6"	14"	71	27	1100
6"	12"	16"	101	35	1500
8"	13.5"	17.7"	157	66	3700



- 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
- high flow rate / low pressure drop
- female NPT is standard, optional ANSI / DIN flanges or male NPT are available
- stainless steel or aluminum
- working pressure: stainless steel **360 PSI** and aluminum **230 PSI** at ambient temperature (70°F)
- Viton® is standard seal

Size	DN	Stainless Steel		Aluminum	
		Part #	Price/E	Part #	Price/E
2"	50	SBC200SS	\$3667.85	SBC200AL	\$1711.90
3"	80	SBC300SS	6484.90	SBC300AL	3324.85
4"	100	SBC400SS	9960.10	SBC400AL	5085.10
5"	125	SBC500SS	0	SBC500AL	0
6"	150	SBC600SS	33608.90	SBC600AL	24709.70
8"	200	SBC800SSFL ¹	0	---	---

¹ 150# ASA flange

Marine Version

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



Size	Width	Length	Weight in Lbs.	Flow Rate/ GPM
2"	4.5"	7"	5.7	200
3"	6.8"	11"	18.8	650
4"	8.3"	12"	34.1	800
5"	10.6"	14"	71	1100
6"	12"	16"	101	1500
8"	13.5"	17.7"	157	3700



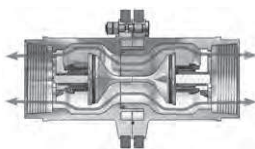
- designed to be installed within a hose string where the coupling will have a length of hose attached to both sides
- typical applications include: ship-to-offshore platform and ship-to-ship product transfer operations
- coupling automatically senses an excessive load, closes the valves and disconnects
- release is executed when force causes bolts to break
- female NPT is standard, optional ANSI / DIN flanges or male NPT are available
- working pressure: **360 PSI** at ambient temperature (70°F)
- 316T1 stainless steel body with Viton® O-rings

Size	DN	Stainless Steel	
		Part #	Price/E
2"	50	MSBC200SS	\$4400.20
3"	80	MSBC300SS	7781.65
4"	100	MSBC400SS	11958.30
5"	125	MSBC500SS	0
6"	150	MSBC600SS	36966.70
6"	150	MSBC600SSFL ¹	38693.00
8"	200	MSBC800SSFL ¹	0

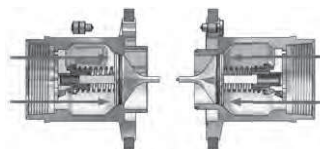
¹ 150# ASA flange

How it Works

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 an O-ring seal.



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

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 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.

Dry Disconnect Couplings

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.



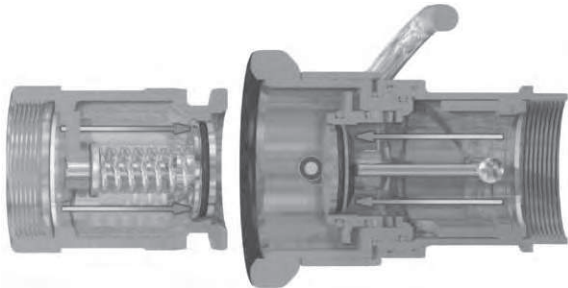
- Easy to handle - push and turn - free flow, turn and pull - closed
- Time saving - no need to drain hoses or pipe systems
- Economical - no loss or spillage of liquids at connection or disconnection
- Safety - the valve cannot be opened until the unit is coupled
- Environment friendly - accidental spillage eliminated when proper 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 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.
- Working Pressure (at ambient temperature (70°F):
 - aluminum: **300 PSI**, up to 4"
 - brass/ gunmetal *: **300 PSI**, up to 4"
 - stainless steel: **360 PSI**
- Optional seals:
 - EPDM
 - NBR - nitrile
 - Kalrez®
 - Chemraz®
 - Perlast®
- Seal kits are available

* produced to US government bronze specification G

Interchanges with Avery Hardoll and Todo-matic®

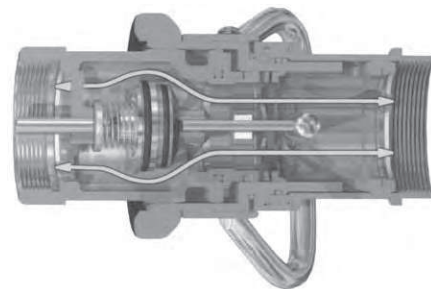
How it Works

The principle of operation is identical for all sizes of couplings.



Closed:

- Turn and pull
it's released - no spillage



Open:

- Push and turn
it's coupled - full flow

Dry Quick Disconnect Couplers

Crowder Supply Co., Inc. • 8495 Roslyn St., Commerce City, CO 80022 • Toll Free: 888-883-5144 • www.CrowderSupply.com

- coupler has built-in swivel
- stainless steel ball bearings
- shaft journal in stainless steel embedded in PTFE (Teflon®) 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

- all wetted parts are stainless steel
- 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
- Composite (Polyeten PE-HD 300) plugs provide very good protection against corrosion and withstand hot and cold environments.

Coupler - Hose Unit



3/4" and 1" design



3" design



1 1/2" and 2" design



4" design



6" design

dry quick disconnect couplers x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel		Anodized Aluminum		Brass / Gunmetal ¹	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4"	56 mm	DDC075SS	\$2193.90	DDC075AL	\$1145.40	DDC075BR	\$1606.80
1"	56 mm	DDC100SS	2193.90	DDC100AL	1145.40	DDC100BR	1606.80
1 1/2"	70 mm	DDC150SS	3693.60	DDC150AL	1544.00	DDC150BR	1877.70
2"	70 mm	DDC200SS	3693.60	DDC200AL	1544.00	DDC200BR	1877.70
3"	105 mm	DDC300SS105	5692.80	DDC300AL105	1714.95	DDC300GM105	2493.65
3"	119 mm	DDC300SS	5722.70	DDC300AL	1731.45	DDC300GM	2799.55
4"	164 mm	DDC400SS	9946.70	DDC400AL	3779.10	DDC400GM	5190.20
6"	238 mm	DDC600SS	25399.80	DDC600AL	16335.80	---	---

¹ produced to US government bronze specification G

Dust Plugs for Couplers



Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
3/4" and 1"	56 mm	DDDP075	\$107.90
1 1/2" and 2"	70 mm	DDDP150	112.30
3"	105 mm	DDDP300105	115.90
3"	119 mm	DDDP300	115.90
4"	164 mm	DDDP400	231.70
6"	238 mm	DDDP600 ¹	699.45

¹ 6" dust plug is aluminum

Dry Quick Disconnect Adapters

- adapter is usually installed on the tank or manifold
- conical valve seat reduces the risk for piston blow out
- PTFE (Teflon®) bearing between the piston shaft and the piston guide eliminate the risk for seizure
- available in female NPT, 150# ASA flange or TTMA
- Composite (Polyeten PE-HD 300) caps provide very good protection against corrosion and withstand hot and cold environments.

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

B

Dry
Disconnect

Adapter - Tank Unit

dry quick disconnect adapters x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel		Anodized Aluminum		Brass / Gunmetal ¹	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	56 mm	DDA075SS	\$798.50	DDA075AL	\$575.70	DDA075BR	\$654.40
1"	56 mm	DDA100SS	798.50	DDA100AL	575.70	DDA100BR	654.40
1½"	70 mm	DDA150SS	1214.40	DDA150AL	467.80	DDA150BR	537.70
2"	70 mm	DDA200SS	1214.40	DDA200AL	467.80	DDA200BR	537.70
3"	105 mm	DDA300SS105	1522.35	DDA300AL105	578.30	DDA300GM105	776.40
3"	119 mm	DDA300SS	1441.00	DDA300AL	591.60	DDA300GM	813.50
4"	164 mm	DDA400SS	2822.20	DDA400AL	1167.00	DDA400GM	1899.35
6"	238 mm	DDA600SS	10876.80	DDA600AL	7442.80	---	---



female NPT x adapter

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

150# Flange	Body Size	316 Stainless Steel		Anodized Aluminum		Brass / Gunmetal ¹	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	56 mm	DDA075SSFL	\$1487.35	---	---	---	---
1"	56 mm	DDA100SSFL	1487.35	DDA100ALFL	\$1023.10	DDA100BRFL	\$1162.90
1½"	70 mm	DDA150SSFL	1451.30	DDA150ALFL	739.25	DDA150BRFL	1027.50
2"	70 mm	DDA200SSFL	1451.30	DDA200ALFL	739.25	DDA200BRFL	1027.50
3"	105 mm	DDA300SS105FL	1607.85	DDA300AL105FL	859.50	DDA300GM105FL	1138.15
3"	119 mm	DDA300SSFL	2010.60	DDA300ALFL	959.40	DDA300GMFL	1251.45
4"	164 mm	DDA400SSFL	3444.35	DDA400ALFL	1393.60	DDA400GMFL	2340.20
6"	238 mm	DDA600SSFL	11587.50	DDA600ALFL	7885.70	---	---



150# flange x adapter

¹ produced to US government bronze specification G

dry quick disconnect adapters x TTMA flange with Viton® seals

TTMA Flange	Body Size	Anodized Aluminum	
		Part #	Price/E
3"	105 mm	DDA300AL105TTMA	\$859.50
3"	119 mm	DDA300AL119TTMA	959.40
4"	164 mm	DDA400AL164TTMA	1393.60



TTMA flange x adapter

Dust Caps for Adapters

Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
¾" and 1"	56 mm	DDDC075	\$175.10
1½" and 2"	70 mm	DDDC150	191.90
3"	105 mm	DDDC300105	212.25
3"	119 mm	DDDC300	236.15
4"	164 mm	DDDC400	443.95
6"	238 mm	DDDC600 *	2264.35

* 6" dust cap is aluminum

Size	Body Size	Rubber	
		Part #	Price/E
2"	71 mm	DGDC200	\$100.85
3"	119 mm	DGDC300	235.25

dust cap
compositedust cap
rubber

Dry Aviation Couplings

B

Dry
Disconnect

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 (*procured to U.S. government bronze specification G*)
- bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are aluminum and stainless steel
- **150 PSI** working pressure at ambient temperature (70°F)
- Composite (Polyeten PE-HD 300) plug provides good protection against corrosion and withstands hot and cold environments.

Coupler - Hose Unit

- stainless steel ball bearings
- gunmetal coupling ring minimizes the risk of seizure
- stainless steel shaft journal embedded in PTFE (Teflon®) eliminate seizure
- PTFE (Teflon®) 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 thread x coupler

aviation couplers x female NPT with Viton® seals

Female NPT	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAC250AL	\$2201.10
3"	ISO 45	DAC300AL	2201.10

aviation couplers x female BSP with Viton® seals

Female BSP	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAC250ALBSP	\$2201.10
3"	ISO 45	DAC300ALBSP	2201.10

Sight Flow Indicator with Filter / Screen

- 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	
		Part #	Price/E
2½" NPT	2½" BSP	ASFI25T25B	\$1491.45
3" NPT	3" BSP	ASFI30T30B	1491.45
2½" NPT	2½" NPT	ASFI25T25T	1491.45
3" NPT	3" NPT	ASFI30T30T	1491.45

Dust Plug for Couplers



Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
2½"	ISO 45	DADP250	\$272.40

Dry Aviation Couplings

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 in aluminum and stainless steel
- **150 PSI** working pressure at ambient temperature (70°F)
- Composite (Polyeten PE-HD 300) cap provides good protection against corrosion and withstands hot and cold environments.

Adapter - Tank Unit

- gunmetal coupling ring minimizes the risk of seizure
- PTFE (Teflon®) 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

aviation adapters x female NPT with Viton® seals

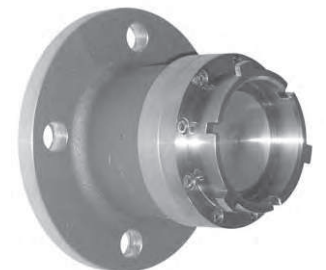
Female NPT	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAA250AL	\$1301.95
3"	ISO 45	DAA300AL	1301.95



female thread x adapter

aviation adapters x 150# ASA flange with Viton® seals

150# Flange	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAA250ALFL	\$1511.00
3"	ISO 45	DAA300ALFL	1511.00



150# flange x adapter

Dust Cap for Adapters

Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
2½"	ISO 45	DADC250	\$186.60



Dry Break Cam and Groove Dry Disconnect Couplings Couplers

Crowder Supply Co., Inc. • 8495 Roslyn St., Commerce City, CO 80022 • Toll Free: 888-883-5144 • www.CrowderSupply.com

- 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 steel internals¹
- for pressure ratings at other temperatures, contact the factory
- Dixon EZ Boss-Lock cam arms provide high security from accidental opening due to vibration or snagging on 1½" and 2" fittings
- large paddle type cam arms allow for an easy grip on 3" fittings

Must be used with a DBA style adapter for coupler to operate. **SAFETY ALERT**
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. Teflon® seals on cylinder assembly, stuffing box, and seal under poppet screw.

coupler x female NPT

Female NPT	Coupler Size	Seal Material	Max PSI at 70°	Aluminum		Stainless Steel ¹	
				Part #	Price/E	Part #	Price/E
1½" 2" 3"	2"	Buna	210	DBC61-150	\$731.45	DBC71-150	\$1619.40
	2½"		150	DBC61-200	769.45	DBC71-200	1801.70
	4"		120	DBC61-300	1602.60	DBC71-300	3867.15
1½" 2" 3"	2"	Viton®	210	DBC62-150	793.05	DBC72-150	1681.45
	2½"		150	DBC62-200	862.00	DBC72-200	1894.80
	4"		120	DBC62-300	1788.75	DBC72-300	4072.75
1½" 2" 3"	2"	Teflon® Encapsulated Silicone & Kalrez®	210	DBC63-150	1799.75	DBC73-150	2356.40
	2½"		150	DBC63-200	2062.25	DBC73-200	2755.90
	4"		120	DBC63-300	3314.40	DBC73-300	5463.30
1½" 2" 3"	2"	EPT	210	DBC64-150	1140.40	DBC74-150	1681.45
	2½"		150	DBC64-200	1265.75	DBC74-200	1894.80
	4"		120	DBC64-300	2054.30	DBC74-300	4072.75
1½" 2" 3"	2"	Kalrez® and Teflon® ²	210	---	---	DBC76-150	5042.45
	2½"		150	DBC66-200	4745.70	DBC76-200	5469.15
	4"		120	---	---	DBC76-300	11310.55
1½" 2" 3"	2"	Teflon® Encapsulated Viton® & Kalrez®	210	---	---	DBC77-150	2413.80
	2½"		150	---	---	DBC77-200	2384.10
	4"		120	---	---	DBC77-300	5063.80
3"	4"	Viton® B	120	DBC69-300	2158.55	DBC79-300	4458.70



1½" and 2" coupler x female NPT



3" coupler x female NPT

greaseless coupler x female NPT

Female NPT	Coupler Size	Seal Material	Max. PSI at 70°	Part #	Price/E
1½"	2"	Teflon® Encapsulated Viton® & Kalrez®	210	DBC77-150-GL	\$2684.15
2"	2½"	Teflon® Encapsulated Viton® & Kalrez®	150	DBC77-200-GL	2864.50

coupler x 90° swivel female NPT

Female NPT	Coupler Size	Seal Material	Max. PSI at 70°	Aluminum	
				Part #	Price/E
2"	2½"	Buna	150	DBS61-200	\$932.85
	2½"	Viton®	150	DBS62-200	1076.00
	2½"	Teflon® Encapsulated Silicone & Kalrez®	150	DBS63-200	2185.85



New for 2012

Dust Plug for Couplers

Size	Aluminum		Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	200-DP-AL	\$16.40	200-DP-SS	\$64.00
2½"	250-DP-AL	23.75	250-DP-SS	150.60
4"	400-DP-AL	36.15	400-DP-SS	175.00



Locking Kit for Couplers

Description	Aluminum Part #	Price/E
for use with 1½" and 2" dry disconnect couplers	DBCL-200	\$177.50
for use with 3" dry disconnect couplers	DBCL-300	177.50



Dry Break Cam and Groove Dry Disconnect Couplings Adapters

B
Dry
Disconnect

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.

Contact the Dixon at 800-355-1991 for chemical compatibility, size, and material selection. Special configurations can be designed for your application.

- two-piece adapter 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 Dixon

adapter x female NPT

Female NPT	Adapter Size	Seal Material	Max PSI at 70°	Aluminum		Stainless Steel ¹	
				Part #	Price/E	Part #	Price/E
1½"	2"	Buna	210	DBA11-150	\$199.70	DBA71-150	\$486.30
2"	2½"		150	DBA11-200	216.45	DBA71-200	557.10
3"	4"		120	DBA11-300	422.85	DBA71-300	1247.00
1½"	2"	Viton®	210	DBA12-150	203.95	DBA72-150	486.30
2"	2½"		150	DBA12-200	222.70	DBA72-200	625.00
3"	4"		120	DBA12-300	436.35	DBA72-300	1264.50
1½"	2"	Teflon® Encapsulated Silicone	210	DBA63-150	268.75	DBA73-150	491.60
2"	2½"		150	DBA63-200	310.30	DBA73-200	629.25
3"	4"		120	DBA63-300	465.45	DBA73-300	1466.20
1½"	2"	EPT	210	DBA64-150	248.25	DBA74-150	504.25
2"	2½"		150	DBA64-200	283.20	DBA74-200	557.10
3"	4"		120	DBA64-300	543.00	DBA74-300	1375.00
1½"	2"	Kalrez®	210	DBA66-150	853.30	DBA76-150	1140.35
2"	2½"		150	DBA66-200	1052.45	DBA76-200	1260.60
3"	4"		120	DBA66-300	1823.00	DBA76-300	2792.70
1½"	2"	Teflon® Encapsulated Viton®	210	---	---	DBA77-150	541.10
2"	2½"		150	---	---	DBA77-200	659.40
3"	4"		120	---	---	DBA77-300	1336.25
3"	4"	Viton® B	120	DBA69-300	667.15	---	---



1½" and 2" adapter



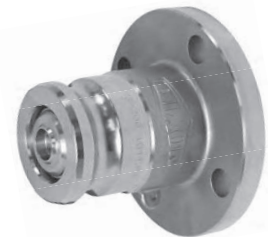
3" adapter

jump size adapter x female NPT

Female NPT	Adapter Size	Seal Material	Max. PSI at 70°	Aluminum	
				Part #	Price/E
2"	2"	Buna	150	DBA11-1520	\$208.50
2"	2"	Viton®	150	DBA12-1520	217.60

adapter x 150# ASA flange

Flange Size	Adapter Size	Seal Material	Max. PSI at 70°	Stainless Steel ¹	
				Part #	Price/E
2"	2"	Viton®	150	DBAF72-1520	\$1138.20
		Teflon® Encapsulated Silicone		DBAF73-1520	1149.50
		EPT		DBAF74-1520	1149.50
		Kalrez®		DBAF76-1520	1667.50
		Viton®		DBAF72-200	1175.55
2"	2½"	Teflon® Encapsulated Silicone	150	DBAF73-200	1185.50
		EPT		DBAF74-200	1185.50
		Kalrez®		DBAF76-200	1872.30
		Viton®		DBAF72-300	1872.40
		Teflon® Encapsulated Silicone		DBAF73-300	1951.60
3"	4"	EPT	120	DBAF74-300	1951.60
		Kalrez®		DBAF76-300	3082.60



vapor adapter x female thread

Female NPSM	Adapter Size	Seal Material	Max. PSI at 70°	Stainless Steel ¹	
				Part #	Price/E
2"	3"	Teflon®	150	DBAV73-2030	\$665.45



¹ stainless steel corrosion resistance is comparable to 304 stainless steel

Dust Cap for Adapters

New for 2012

Size	Aluminum		Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	200-DC-AL	\$29.20	200-DC-SS	\$105.00
2½"	250-DC-AL	50.70	250-DC-SS	202.00
4"	400-DC-AL	52.45	400-DC-SS	195.00



Dry Gas Couplings

Dry gas couplings are designed for safe loading and discharge of bobtails or intermediate bulk delivery trucks. They are quick and easy to connect and can be connected to a tank unit with pressures up to **225 PSI** at ambient temperature (70°F). 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.

- safe handling of LPG
- easy to use and saves time
- reliable and easy to maintain
- can be coupled to a tank 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
- compatible with existing dry disconnect couplings

Technical Information:

- stainless steel and brass / gunmetal (*produced to US government bronze specification G*)
- Viton® seals
- female NPT and ASA flanges
- **360 PSI** working pressure at ambient temperature (70°F)
- Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstand hot and cold environments.

Coupler - Hose Unit



female NPT x coupler

dry gas couplers x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel	
		Part #	Price/E
1"	56 mm	DGC100SS	\$2783.10
2"	71 mm	DGC200SS	4193.15
3"	119 mm	DGC300SS	5721.65

Dust Plugs for Couplers



Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
1"	56 mm	DGDP100	\$100.85
2"	71 mm	DGDP200	115.90
3"	119 mm	DGDP300	115.90

Adapter - Tank Unit



female NPT x adapter

dry gas adapters x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel	
		Part #	Price/E
1"	56 mm	DGA100SS	\$999.20
2"	71 mm	DGA200SS	1301.95
3"	119 mm	DGA300SS	1439.95

dry gas adapters x female ACME thread with Viton® seals

Female ACME	Body Size	316 Stainless Steel	
		Part #	Price/E
1¾"	56 mm	DGA100SS175	\$1343.25
3¼"	71 mm	DGA200SS325	2181.45

dry gas adapters x 150# ASA flange with Viton® seals



150# flange x adapter

150# Flange	Body Size	316 Stainless Steel	
		Part #	Price/E
1"	56 mm	DGA100SSFL	\$1637.70
2"	71 mm	DGA200SSFL	1742.80
3"	119 mm	DGA300SSFL	2010.60

Dust Caps for Adapters



Size	Body Size	Material	Part #	Price/E
1"	56 mm	polyeten PE-HD300	DGDC100	\$89.35
2"	71 mm	rubber	DGDC200	100.85
3"	119 mm	rubber	DGDC300	235.25

Flomax Part Number Cross-reference

B

Dry
Disconnect**Standard Series Connectors**

Dixon Part #	Caterpillar® part #	Wiggins part #
Engine Oil Nozzles		
ENBL	9S9273	OS2
ENBL-P	---	OSP2
ENBL-PLUG	9S9274	OP-12
ERJ	---	ON6
Engine Oil Receivers		
ERS	9S9271	ON2
ERS-C	---	ONC2A
ERS-CAP	9S9272	O3B12P
Coolant Fluid Nozzles		
CN	108-5455	EC280B8
CN-P	---	---
CN-PLUG	108-5456	1209-8
Coolant Fluid Receivers		
CR-S	IQ5459	EC285A8
CR-C	---	---
CR-CAP	5P3587	1208-8
Hydraulic Oil Nozzles		
HN	108-5433	6000B12
HN-P	---	---
HN-PLUG	---	6009-12
Hydraulic Oil Receivers		
HR	108-5454	6005A12
HR-C	---	---
HR-CAP	IQ-5468	6008-12
Transmission Fluid Nozzles		
TN	126-7538	C-1807
TN-P	---	---
TN-PLUG	---	P-1844
Transmission Fluid Receivers		
TR	108-5456	P-1804
TR-C	---	---
TR-CAP	SP3587	P-1880

Fuel Vent Series

Dixon Part #	Caterpillar® part #	Wiggins part #
VT	6G7803	ZV10
VT7	---	---
VT9	---	---
VTT	---	ZV10C

R Series Connectors

Dixon Part #	Caterpillar® part #	Wiggins part #
Engine Oil Nozzles		
R-EN	---	R15
R-EN-P	---	---
R-EN-PLUG	---	---
Engine Oil Receivers		
R-ER	---	R16
R-ER-C	---	---
R-ER-CAP	---	---
Coolant Fluid Nozzles		
R-CN	---	R11
R-CN-P	---	---
R-CN-PLUG	---	---
Coolant Fluid Receivers		
R-CR	---	R12
R-CR-C	---	---
R-CR-CAP	---	---
Hydraulic Oil Nozzles		
R-HN	---	R17
R-HN-P	---	---
R-HN-PLUG	---	---
Hydraulic Oil Receivers		
R-HR	---	R18
R-HR-C	---	---
R-HR-CAP	---	---
Transmission Fluid Nozzles		
R-TN	---	R13
R-TN-P	---	---
R-TN-PLUG	---	---
Transmission Fluid Receivers		
R-TR	---	R14
R-TR-C	---	---
R-TR-CAP	---	---

Diesel Fueling System

Dixon Part #	Caterpillar® part #	Wiggins part #
Nozzles		
FN600	---	ZZ99A1
FN600BL	---	---
FN600B-PLUG	---	---
Receivers		
FRS	269000	ZN2A
FRS-C	---	ZNC2A
FRA	269000	ZN2A
FRA-C	---	ZNC2A
FR-CAP	9D0630	ZC20P
FR2	---	---
FR2-C	---	---
FR2-R	---	---
GFR-0	---	ZN6A
GFR-45	---	---
GFR-90	---	ZN6B
GFR1-0	---	ZN6B
GFR1-45	---	---
GFR1-90	---	ZN6B
FNS	---	ZS9
FNS2	---	---
FN600S	---	---
FNS10	---	---

B

Dry
Disconnect

Flomax Diesel Fueling System

Designed for on-site refueling of construction, mining, forestry and agricultural equipment. Interchanges with Caterpillar® and Wiggins systems.

Diesel Fuel Nozzle

- 1½" female NPT
- integrated high flow swivel
- integrated sealing plug
- plug/bumper assembly gives complete nose seal
- stainless steel dog latch mechanism and ball lock styles available
- tested to 180 gallons per minute
- investment cast aluminum housing
- anodized aluminum non-wear parts
- heat treated stainless steel wear components
- Delron® bushings eliminate metal-to-metal wear



Description	Part #	Price/E
dog latch mechanism with sealing plug	FN600	\$2787.25
ball lock with sealing plug	FN600BL	2629.75
sealing plug for FN600	FN600B-PLUG	187.45
sealing plug for FN600BL	FN600B	187.45

Diesel Fuel Receiver

- 2" male NPT
- available in anodized aluminum or nickel-plated steel
- O-ring sealed aluminum cap
- cap has set screw attached vinyl coated cable lanyard

one-piece body



Description	Material	Part #	Price/E
one-piece receiver without cap	nickel-plated steel	FRS	\$371.25
one-piece receiver with cap	nickel-plated steel	FRS-C	431.75
one-piece receiver without cap	anodized aluminum	FRA	371.25
one-piece receiver with cap	anodized aluminum	FRA-C	431.75
cap for receiver	anodized aluminum	FR-CAP	123.75

- FR2 receiver allows replacement of wear components without draining the fuel tank
- FR2 receiver has an aluminum base with nickel-plated steel nose

two-piece body



Description	Part #	Price/E
two piece receiver with removable stainless sleeve without cap	FR-RS	\$664.00
two piece receiver with removable stainless sleeve with cap	FR-RS-C	695.65
removable sleeve replacement for two piece receiver	FR-RS-R	223.15

Diesel Fuel Swivels

- stainless steel male threaded base
- stainless steel ball bearings
- hand black anodized female threaded nut
- fluorosilicone sealing O-rings



standard

Thread Size	Description	Part #	Price/E
1½" male NPT x 1½" female NPT	standard	FNS	\$343.75
2" male NPT x 1½" female NPT	standard	FNS2	357.50
1½" female NPT x 1½" female NPT	double	FNSID	398.75



double

Thread Size	Description	Part #	Price/E
1½" male NPS x 1½" female NPT	used with FN600	FN600S	\$343.75

Flomax Diesel Fueling System

Diesel Fuel Gravity Fill Receiver

- used with the FN600 or FN600BL to convert to gravity fueling

Size	Description	Anodized Aluminum	
		Part #	Price/E
1-3/8"	straight	GFR-0	\$494.95
1-3/8"	45°	GFR-45	522.45
1-3/8"	90°	GFR-90	522.45
1"	straight	GFR1-0	522.45
1"	45°	GFR1-45	549.95
1"	90°	GFR1-90	549.95



B
Dry
Disconnect

Flomax Fuel Vent Series

- 2" male NPT
- billet cap provides superior impact resistance
- easily serviced all metal construction
- rigid ball cage for positive seal
- available with:
 - threaded outlet
 - half coupling
 - anti-vandalism mounting

Description	Part #	Price/E
with 5" tube	VT	\$453.70
with 7" tube	VT7	467.45
with 9" tube	VT9	481.20
with 5" tube and threaded outlet	VTT	509.90



Flomax Service Box

- Designed to enclose receivers for diesel fuel, hydraulic oil, transmission fluid and coolant reducing contamination and weather related problems.
- normally installed on heavy duty earth mover equipment and drill rigs
- 12 gauge steel construction with heavy duty hinges
- painted white - Imron® Primer

Part #	Price/E
FSB	\$1615.00




does not include receivers shown in photo


Flomax Standard Series Connectors

The Flomax standard series connectors consist of four color-coded mating connectors. They have all-metal construction with stainless steel wear components and anodized aircraft grade aluminum non-wear components. Each has easily recognizable labeling and is fully compatible and interchangeable with industry standards.

Engine Oil (red)


- universally fits all crankcase receivers, both R-series and Standard series
- incorporates 10 locking balls with a 40% deeper engagement
- resistant to clogging with a greater ease of cleaning
- smooth actuation
- larger diameter pullback lanyard
- bright red anodized aircraft grade aluminum


Nozzles	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	3/4" NPT	---	engine nozzle ball lock	ENBL	\$618.70
	3/4" NPT	---	engine nozzle ball lock with plug	ENBL-P	702.05
	---	---	engine nozzle plug	ENBL-PLUG	104.50

Receivers	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
 ERJ-C	3/4" NPT	---	engine receiver	ERS	\$261.25
	3/4" NPT	---	engine receiver with cap	ERS-C	344.60
	---	---	engine receiver cap	ERS-CAP	104.50
	3/4" JIC	---	engine receiver with JIC bulkhead base	ERJ	344.55
	3/4" JIC	---	engine receiver with JIC bulkhead base and cap	ERJ-C	405.15

Coolant Fluid (teal)

- nickle-plated stainless steel nozzle nose and base
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright teal anodized aircraft grade aluminum

Nozzles	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	1/2" NPT	---	coolant nozzle ball lock	CN	\$412.50
	1/2" NPT	---	coolant nozzle ball lock with plug	CN-P	495.80
	---	---	coolant nozzle plug	CN-PLUG	104.50

Receivers	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	1/2" NPT	---	coolant receiver	CR-S	\$220.00
	1/2" NPT	---	coolant receiver with cap	CR-C	303.35
	---	---	coolant receiver cap	CR-CAP	104.50

Flomax Standard Series Connectors


The Flomax standard series connectors consist of four color-coded mating connectors. They have all-metal construction with stainless steel wear components and anodized aircraft grade aluminum non-wear components. Each has easily recognizable labeling and is fully compatible and interchangeable with industry standards.

B

Dry
Disconnect

Hydraulic Oil (gold)


- nickle-plated stainless steel wear components
- 10 steel dog latching mechanism
- ergonomically engineered pullbacks and caps
- bright gold anodized aircraft grade aluminum


Male Thread	Female Thread	Description	Anodized Aluminum		Nozzles
			Part #	Price/E	
---	3/4" NPT	hydraulic nozzle	HN	\$620.15	
---	3/4" NPT	hydraulic nozzle with plug	HN-P	702.05	
---	---	hydraulic nozzle plug	HN-PLUG	104.50	

Male Thread	Female Thread	Description	Anodized Aluminum		Receivers
			Part #	Price/E	
3/4" NPT	---	hydraulic receiver	HR	\$500.45	
3/4" NPT	---	hydraulic receiver with cap	HR-C	583.80	
---	---	hydraulic receiver cap	HR-CAP	104.50	

Transmission Fluid (violet)

- nickle-plated stainless steel nose and base
- 6 steel dog latching mechanism
- ergonomically engineered pullbacks and caps
- bright violet anodized aircraft grade aluminum

Male Thread	Female Thread	Description	Anodized Aluminum		Nozzles
			Part #	Price/E	
1/2" NPT	---	transmission nozzle	TN	\$549.95	
1/2" NPT	---	transmission nozzle with plug	TN-P	633.30	
---	---	transmission nozzle plug	TN-PLUG	104.50	


Male Thread	Female Thread	Description	Anodized Aluminum		Receivers
			Part #	Price/E	
---	3/8" NPT	transmission receiver	TR	\$288.75	
---	3/8" NPT	transmission receiver with cap	TR-C	372.10	
---	---	transmission receiver cap	TR-CAP	104.50	


Flomax R Series Connectors

The Flomax R-series connectors are fully compatible and interchangeable with industry standards. They have all-metal construction using anodized aircraft grade aluminum non-wear components.

Engine Oil (red)


- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright red anodized aircraft grade aluminum


Nozzles	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	---	3/4" NPT	R-series engine nozzle	R-EN	\$482.35
	---	3/4" NPT	R-series engine nozzle with plug	R-EN-P	564.55
	---	---	R-series engine nozzle plug	R-EN-PLUG	104.50

Receivers	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver	R-ER	\$206.25
	1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver with cap	R-ER-C	289.60
	---	---	R-series engine receiver cap	R-ER-CAP	104.50

Coolant (teal)

- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright teal anodized aircraft grade aluminum

Nozzles	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	---	1/2" NPT	R-series coolant nozzle	R-CN	\$454.85
	---	1/2" NPT	R-series coolant nozzle with plug	R-CN-P	537.05
	---	---	R-series coolant nozzle plug	R-CN-PLUG	104.50

Receivers	Male Thread	Female Thread	Description	Anodized Aluminum	
				Part #	Price/E
	1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver	R-CR	\$165.00
	1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver with cap	R-CR-C	248.35
	---	---	R-series coolant receiver cap	R-CR-CAP	104.50

Flomax R Series Connectors


B


Dry
Disconnect

The Flomax R-series connectors are fully compatible and interchangeable with industry standards. They have all-metal construction using anodized aircraft grade aluminum non-wear components.

Hydraulic Oil (gold)


- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright gold anodized aircraft grade aluminum


Male Thread	Female Thread	Description	Anodized Aluminum		Nozzles
			Part #	Price/E	
---	1" NPT	R-series hydraulic nozzle	R-HN	\$530.70	
---	1" NPT	R-series hydraulic nozzle with plug	R-HN-P	614.05	
---	---	R-series hydraulic nozzle plug	R-HN-PLUG	104.50	

Male Thread	Female Thread	Description	Anodized Aluminum		Receivers
			Part #	Price/E	
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver	R-HR	\$261.25	
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver with cap	R-HR-C	344.60	
---	---	R-series hydraulic receiver cap	R-HR-CAP	104.50	

Transmission Fluid (violet)

- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright violet anodized aircraft grade aluminum

Male Thread	Female Thread	Description	Anodized Aluminum		Nozzles
			Part #	Price/E	
---	3/4" NPT	R-series transmission nozzle	R-TN	\$426.25	
---	3/4" NPT	R-series transmission nozzle with plug	R-TN-P	509.55	
---	---	R-series transmission nozzle plug	R-TN-PLUG	104.50	



Male Thread	Female Thread	Description	Anodized Aluminum		Receivers
			Part #	Price/E	
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver	R-TR	\$198.00	
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver with cap	R-TR-C	281.35	
---	---	R-series transmission receiver cap	R-TR-CAP	104.50	

Flomax High Flow Series

3/4" Series

Consists of 6 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This provides complete protection against cross contamination.

- maximum flow rate of 45 GPM at 70 PSI
- working pressure rating: **200 PSI**
- The standard mounting for the nozzle is a 3/4" female NPT and for the receiver is a 3/4" male NPT.

Nozzles	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
	3/4" NPT	red nozzle with plug	ENBL-P	\$702.05
		gold nozzle with plug	ENBL-P2	702.05
		teal nozzle with plug	ENBL-P3	702.05
		violet nozzle with plug	ENBL-P4	702.05
		navy nozzle with plug	ENBL-P5	702.05
		copper nozzle with plug	ENBL-P6	702.05
Receivers	Male Thread	Description	Anodized Aluminum	
			Part #	Price/E
	3/4" NPT	red receiver with cap	ERS-C	\$344.60
		gold receiver with cap	ERS-C2	344.60
		teal receiver with cap	ERS-C3	344.60
		violet receiver with cap	ERS-C4	344.60
		navy receiver with cap	ERS-C5	344.60
		copper receiver with cap	ERS-C6	344.60

Note: ERS series is available with JIC bulkhead base. Substitute 'J' for 'S'. Example: ERJ-C2

1" Series

Consists of 7 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This will provide complete protection against cross contamination.



Each of the 7 nozzles and 7 receivers has the following performance:

- The nozzle/receiver combination has a flow area equivalent to a 1" schedule 80 pipe.
- The fittings have a **500 PSI** working pressure rating with 1500 PSI minimum burst pressure.
- All wear parts are constructed of stainless steel for long life and corrosion resistance.
- All non-wear parts are constructed of colored anodized aircraft grade aluminum for high strength, lightweight and corrosion resistance.

- The standard mounting for the nozzle is a 1" female NPT and for the receiver is a 1" male NPT. The receivers also come with a 1" female NPT threaded base.
- The nozzle incorporates a "ball lock" mechanism to ensure smooth and reliable operation.

Physical Description:

- nozzle length: 3.90" (99 mm)
- receiver length: 3.44" (87 mm)
- diameter: 2.50" (64 mm)
- hex size: 2" (51 mm)
- nozzle and receiver coupled length: 5.44" (138 mm)

Nozzles	Female NPT size	Description	Anodized Aluminum	
			Part #	Price/E
	1"	red nozzle with plug	HFN-P1	\$812.05
		gold nozzle with plug	HFN-P2	812.05
		teal nozzle with plug	HFN-P3	812.05
		violet nozzle with plug	HFN-P4	812.05
		navy nozzle with plug	HFN-P5	812.05
		copper nozzle with plug	HFN-P6	812.05
		blue/gray nozzle with plug	HFN-P7	812.05
Receivers	Male NPT size	Description	Anodized Aluminum	
			Part #	Price/E
	1"	red receiver with cap	HFR-C1	\$509.55
		gold receiver with cap	HFR-C2	509.55
		teal receiver with cap	HFR-C3	509.55
		violet receiver with cap	HFR-C4	509.55
		navy receiver with cap	HFR-C5	509.55
		copper receiver with cap	HFR-C6	509.55
		blue/gray receiver with cap	HFR-C7	509.55