EZ-FLON
HIGH PERFORMANCE HOSES & PIPES

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Know Your Application

Copy this page and use it as a checklist

At any stage of this process please call us for any help or further information.

To make the best choice of coupling, you need to know your application by way of the following four primary areas:

- The media (and any different states it may have when flowing through the coupling)
- Size requirements (relating to nominal bore sizes of related pipe systems or the surroundings)
- Operating conditions (for the coupling and its environment)
- Coupling functionality (by way of type of valving, allowable spillage, interchangeability or other needs)

The following table expands on these four categories and can work as a checklist to enable you to make the correct choice.

What You Need to Know	This Will Help You Decide	Your Notes
Media Identify what will flow through the coupling set and associated piping. Determine for any state it may be in what compatibility requirements exist for the coupling body, seals and any other 'wetted' surfaces.	The material of manufacture for the coupling body, seals etc.	
Size Determine what nominal pipe size your coupling will be connected to. Do any overall physical size constraints exist for operation or maintenance?	The coupling nominal bore & end fitting size.	
Operating Conditions Temperature range of media Ambient temperature range Maximum working pressure requirements Flow rate required Maximum allowable pressure drop Acceptable spillage (usually measured in cc's) Any other special requirements, (e.g. vibration, prevention of cross connection, corrosive atmosphere).	In conjunction with the media and size information above, this information will focus more towards the coupling body and seal material compatibility.	
Functionality How do you need the coupling to seal when it is disconnected? Choose the option for single or double shut-off to suit the amount of acceptable spillage. Also remember to consider any interchangeability with any existing fitting.	The valving design you need.	

Once you have all the information, go to Page 24 to see which coupling will best suit your application.

Deciding Which Coupling to Use

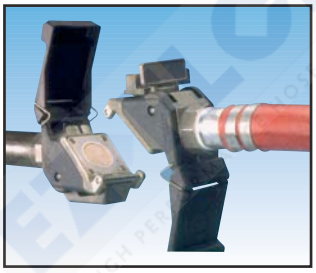
What is Important?

Dry disconnect couplings are designed to prevent the loss of product when disconnecting hose lines and protecting the operator and the environment.

Consideration of the following points will assist in making the best choice of couplings for your application:

- **Valve Type**
  Poppet, ball or butterfly. This is often a matter of personal preference but will also affect the performance of the coupling in terms of flow rate and spillage.
- **Acceptable Level of Spillage**
  Prevention of spillage on disconnection is the main reason for using dry disconnect couplings, but the acceptable level will vary greatly according to the application and environment. The couplings in this brochure offer a choice according to how critical this factor is.
- **Pressure Drop**
  Flow rate will vary greatly from one coupling type to another – indeed the pressure drop on a 2" Butterfly type is hardly greater than on a 3" poppet valve type.
- **Interchangeability**
  Are there already couplings in use with which the couplings must interchange? Conversely, it may be important that the new couplings will not mate with existing fittings on site.
- **Method of Operation/Ease of Use**
  The position of connection or the familiarity of the operative with the design may make one type of coupling more suitable on a particular site.
- **Weight and Size**
  Weight will be important to the operator when moving the hose according to the frequency of connection, while size may be critical e.g. when the coupling must fit within the envelope of an IBC (intermediate bulk container).
- **Temperature/Pressure/Media/Nominal Bore**
  The chosen coupling must be available in the required size and pressure rating with materials compatible with the media, temperature and environment.
- **Safety for the Operative and the Environment**
  Apart from the level of spillage, prevention of accidental disconnection should be considered. This can be achieved with a mechanical interlock so that disconnection is only possible when the valve is closed.
- **Avoidance of Cross Contamination**
  Accidental connection of the wrong hose line can have serious consequences. Mechanical "keying" of the coupling – or the fitting of sensors – is an option in order to prevent this.
- **Potential for Abuse**
  Some couplings are more robust than others. For instance, Polypropylene is light and gives excellent resistance to aggressive chemicals but it may not be suitable in applications where the hose line is frequently thrown about.
- **Maintenance**
  Unfortunately, mechanical seals and other components do not last forever. On some couplings e.g. Dry Link, the main seals can be changed in situ, whereas other couplings may need to be returned to the workshop for repair with consequent downtime.
- **Cost**
  Oh yes, the cost! Apart from the cost of different materials, generally the coupling cost will be inversely proportional to the amount of spillage on disconnection. Put simply, the more critical the application is in terms of loss of product and protection of the operator and the environment, the more expensive the coupling!

This list is not exhaustive – experience has shown that every new application brings different factors to bear in the best choice of dry disconnect couplings. We would be happy to discuss your specific requirements with you in order to provide further appropriate details and guidance with your selection.



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Product Index

							
		Dry Link	**Mann-Tek**	**Snap-Tite**	**Fulcrum**	**Dry-Mate**	**DryDis**
Product Type	Pressure Drop	None	Some	Some	Some	Some	None
	Spillage	None	Some	Some	None	Some	None
Thread Sizes	1/2" (DN13)			1/8 thru 1/2			●
	1" (DN25)	●	●	●	●	●	●
	1 1/2" (DN38)	●	●	●	●	●	●
	2" (DN50)	●	●	●	●	●	●
	3" (DN75)	●	●	●	●		●
	4" (DN100)	●	●	●	●		●
Body Material	Stainless Steel	●	●	●	●	●	●
	Polypropylene					●	
	Aluminium		●	●	●		●
	Hastelloy	●	●		●		
	Steel			●			
	Brass / Gunmetal		●	●	●		●
Seals	PTFE	●				●	
	Buna / Nitrile		●	●	●		●
	Viton	●	●	●	●	●	●
	Kalrez / Chemraz	●	●	●	●	●	●
Valve Style	Butterfly Valve	●					
	Ball Valve					●	
	Poppet Valve			●			
	Dry Break	●	●	●	●	●	●

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Snap-Tite Quick Disconnect Couplings

"Performance without compromise on a global scale"

As official Snap-Tite distributors, Action-Sealtite can offer a wide range, size and type of quick disconnect couplings, including poppet style, dry break and thread to connect varieties.

The Snap-Tite range has, since 1935, supplied hundreds of markets and industries with couplings with the ability to perform under the most demanding conditions.

The standard range includes the following series:-

General Purpose, Poppet Couplings

H Series

General purpose quick coupler for hydraulics, pneumatics, gases, and chemicals

- Most popular style
- Wide range of end fitting options
- Available in sizes 1/4" thru 6"
- Working pressures to 11,000 PSI (759 bar)
- Available in Plated Steel, Brass, Aluminum, or 316 Stainless Steel construction
- Double or single shut-off or straight-through configuration

EA & E Series

General purpose, vacuum, and steam poppet coupling/quick coupler

- Excellent high temperature sealing
- Handles vacuums down to 29.72" hg
- Available sizes: EA Series 1/4" thru 3/4", E Series 1" thru 4"
- Working pressures to 3000 PSI (207 bar)
- Available in Steel, Aluminum, Brass and 316 Stainless Steel
- End fitting versatility
- Double or single shut-off or straight-through configuration

60 Series

General purpose, Parker 4000 interchange coupling

- Ball locking, poppet style coupling
- Available in 1/4" and 3/8"
- Working pressure to 3,000 PSI (207 bar)
- Available in Plated Steel construction
- Interchangeable with Parker 4000 and Aeroquip FD42 Series
- Bulkhead mounting groove as standard
- Double shut-off configuration

61 Series

ISO 7241-1 Series A (ISO-A) interchange coupling

- Coupling conforms to ISO 7241-1 Series A and ISO 5675 specifications
- Available in sizes 1/4" thru 1"
- Working pressures to 5,000 PSI (345 bar)
- Plated Steel construction
- Superior pressure and flow to competition
- Double shut-off configuration

General Purpose, Poppet Couplings

72 Series

ISO 7241-1 series B (ISO-B) interchange coupling

- Coupling conforms to ISO 7241-1 Series B specifications
- Available in sizes $^{1}/_{8}$" thru 1"
- Working pressure to 7,500 PSI (517 bar)
- Available in Steel, Brass, 303 or 316 Stainless Steel construction
- Exceeds pressure and flow capabilities of competition
- Double shut-off configuration

75 Series

Heavy duty, thread-to-connect hydraulic coupling

- Rugged, heavy duty acme thread-to-connect construction
- Available in sizes $^{3}/_{4}$" thru 4"
- Working pressure to 3000 PSI (207 bar)
- Available in Steel or Stainless Steel construction
- Det Norske Veritas (DNV) Approved
- Connect-under-pressure capability
- Double shut-off configuration

76 Series

High pressure thread-to-connect hydraulic coupling

- Zero leak, soft seat poppet valving
- Sizes $^{1}/_{4}$" and $^{3}/_{8}$"
- Working pressures to 14,500 PSI (1,000 bar)
- Available in rugged Plated Steel
- Thread-to-connect sleeve accommodates hand or wrench connection
- Performance exceeds ball style valve interchanges
- Double shut-off configuration

25 Series

Chemical and cryogenic coupling

- Teflon or KEL F (PCTFE) seals available for a host of corrosive materials
- Sizes $^{1}/_{4}$" thru $^{1}/_{2}$"
- Working pressure to 1,000 PSI (69 bar)
- 316 Stainless Steel construction
- Optional safety sleeve lock
- Ball locking design
- Available as double shut-off or straight-through

Snap-Tite Quick Disconnect Couplings

Since 1935, the Quick Disconnect and Valve Division of Snap-Tite Inc., has offered more combinations, sizes, and types of quick disconnect couplings than any other manufacturer in the world today.

Hundreds of markets and industries depend on our couplings' ability to perform under the most demanding conditions.

From the ocean floor to the very edges of our solar system, and everywhere in between, Snap-Tite quick disconnects set the industry standard.

Action-Sealtite's strength is providing expert solutions matched to the needs of each customer and highly consistent quality in exactly the right product, delivered on time, at the right price.

Performance without compromise is Snap-Tite's promise. It means doing whatever it takes to make your business more profitable.

It's a commitment our people make every day.

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Dry Break, Non-Spill Couplings

71 Series

Flush face, dry break, general purpose, hydraulic couplings

- Most popular, economical dry break
- Push-to-connect design
- Available in sizes 1/8" thru 2"
- Working pressures to 10,000 PSI (690 bar)
- Available in Steel, Stainless Steel, or high pressure Stainless Steel
- Safety sleevelock optional

74 Series

Flush face, dry break, ISO 16028 interchange, hydraulic coupling

- ISO 16028 interchange
- Connect under pressure capability available in 1/2" size
- 3/8" also meets HTMA specifications
- Push-to-connect design
- Available in sizes 1/8" thru 1"
- Working pressures to 4,568 PSI (315 bar)
- Steel construction
- Optional safety sleevelock

77 Series

High pressure, dry break coupling

- Dog-locking design
- Internal safety sleevelock prevents accidental disconnection
- Available in 1/4" size
- Working pressure to 36,000 PSI (2483 bar)
- Plated Steel or Stainless Steel construction
- Autoclave end fittings available

78 Series

Thread-to-connect, dry break, hydraulic, interchange coupling

- Heavy duty construction
- Available with wing nut or hex nut for easy connection
- Available in sizes 3/4" thru 1 1/2"
- Working pressure to 3,000 PSI (207 bar)
- Brass body construction with Plated Steel sleeve
- Steel flange available for bulkhead mounting of nipple half

28-1 Series

Military and aerospace dry break coupling

- Lightweight design
- Ball-locking with push-to-connect feature
- Available in sizes 1/4" thru 2"
- Working pressures to 1,000 PSI (69 bar)
- Aluminum or Stainless Steel construction
- Performance meets or exceeds MIL-C-7413B and MIL-C-25427A specifications

29 Series

Military and aerospace dry break coupling

- Ball-locking design with push-to-connect feature
- Exceeds the requirements of MIL-C-25427A
- Available in sizes 1/8" thru 1 1/4"
- Working pressures to 5,500 PSI (379 bar)
- Available in Aluminum or 316 Stainless Steel construction

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HIGH PERFORMANCE HOSES & PIPES

H Series

Snap-Tite's H Series Quick Disconnect has been proven by years of use on hydraulic and pneumatic applications and in handling of many gases and fluids. The H Series coupling's fully engineered design meets or exceeds MIL-C-51234 and provides superior flow characteristics with built in reliability. Options are available for static pressure hydraulic systems and also for pneumatic air tool use.

H Series General Purpose Poppet Coupling

General Purpose Quick Coupler for Hydraulics, Pneumatic, Gases & Chemicals

Features

- **Construction** - Available in Brass, Aluminium, Plated Steel and 316 Stainless Steel
- **Sizes** - 1/8" thru 4"
- **Seal Versatility** - Wide choice of standard and special seal materials for a wide variety of media
- **Positive Sealing when Connected** - Two sealing methods available based on application parameters
- **Dependable Operation** - Ball locking mechanism for positive connection
- **Low Pressure Drop** - Valve design and positive valve positioning maintain clean linear flow
- **Det Norske Veritas (DNV)** Approved
- **Valve Configurations** - Available with double or single shut-off valve or straight through
- **Pressure Ratings** - For use in working pressures to 11,000 PSI (759 bar)
- **End Fitting Versatility** - Two piece body construction allows for many end fitting options

Benefits

Applications include general hydraulic systems, plastic molding, machine tool, test equipment, agricultural, Departments of Transportation, and other mobile hydraulics. The IH option is available for reciprocating, pulsating and rotary motion air tools while the PH option is available for connection against static hydraulic pressure.

Working Pressures*

	VALVE & VALVE (Double Shut-off) VALVE & PLAIN (Single Shut-off)								PLAIN & PLAIN (No Shut-off)							
Quick Disconnect Size	STEEL		ALUMINIUM		BRASS		STAINLESS STEEL		STEEL		ALUMINIUM		BRASS		STAINLESS STEEL	
	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/4"	6500	448	2250	155	2250	155	5000	345	11000	759	4000	276	4000	276	10000	690
3/8"	4500	310	2250	155	2250	155	4000	276	11000	759	4000	276	4000	276	8000	552
1/2"	4000	276	1750	121	2000	138	3750	259	11000	759	4000	276	4000	276	8000	552
3/4"	3500	241	1750	121	2000	138	2000	138	9000	621	3500	241	3500	241	7000	483
1"	2000	138	1500	103	1750	121	2000	138	6000	414	3000	207	3000	207	4000	276
1 1/4"	1750	121	375	26	350	24	1500	103	5000	345	1000	69	1000	69	3000	207
1 1/2"	1500	103	375	26	350	24	1500	103	5000	345	1000	69	1000	69	3000	207
2"	1500	103	300	21	400	28	500	34	4000	276	750	52	750	52	1000	69
2 1/2"	1000	69	300	21	400	28	400	28	1000	69	300	21	400	28	400	28
3"	750	52	200	14	200	14	400	28	750	52	200	14	200	14	400	28
4"	500	34	150	10	150	10	300	21	500	34	150	10	150	10	300	21

NOTE:
Pressure ratings were established under static pressure conditions. Therefore, pressure ratings for any given flow, pressure surge, and/or vibration may vary from these ratings.

Pressure and Flow Data

Pressure ratings of standard quick disconnects can be increased for some applications by slight design modifications or if specific operating conditions are met. On applications requiring higher ratings than those listed or pressure surges, please consult our Sales Office.

Burst pressures listed were taken at the point at which failure rendered the quick disconnect inoperative. (Proof pressure equals 1 1/2 times the working pressure; burst pressure equals 2 times working pressure.)

* For Det Norske Veritas (DNV) compliance, divide the working pressures shown by 2.

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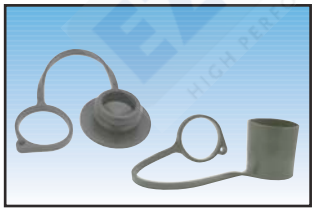
H Series

How to Order

PART NUMBER B	V	H	C	4-	4	RP	OPTIONS		
Material	**Body Type**	**Series**	**Coupling Half**	**Coupling Size**	**End Fitting Size**	**End Fitting Type**	**Optional Seal**	**Seals**	**Options**
No Letter	V	H	C	4 = 1/4"	2 = 1/8"	RP	-9	Standard	SL
=	=		=	6 = 3/8"	4 = 1/4"	=	=	=	=
Plated Steel	Valve		Coupler	8 = 1/2"	6 = 3/8"	Female British	O-Ring and	Buna	Sleeve Lock
A	P		N	12 = 3/4"	8 = 1/2"	Parallel	Teflon back-up	V	
=	=		=	16 = 1"	10 = 5/8"	F	Ring for Steel	=	
Aluminium	Plain		Nipple	20 = 1 1/4"	12 = 3/4"	=	and Stainless	Viton	
B	(without			24 = 1 1/2"	16 = 1"	Female NPT	Steel only	E	
=	valve)			32 = 2"	20 = 1 1/4"	M		=	
Brass				40 = 2 1/2"	24 = 1 1/2"	=		Ethylene	
S				48 = 3"	32 = 2"	Male NPT			
=				64 = 4"	40 = 2 1/2"				
Stainless Steel					48 = 3"				
316					64 = 4"				

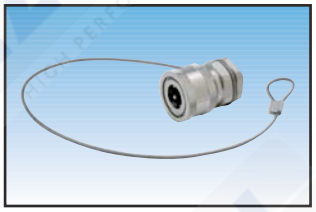


Plastic Caps and Plugs

- Inexpensive means to protect your investment against contamination and damage.
- Comes with a loop to fit over pipe fitting or affixing to equipment with sheet metal screw.
- Available in sizes 1/4" thru 1".

Aluminium Dust Caps and Plugs

- Alternative method to protect your equipment. Aluminium dust caps and plugs are available in sizes 1/4" thru 3".
- The 1/4" thru 3/4" sizes come with 10" Chrome Plated Brass bead chain.
- 1" and above come with Steel Zinc Plated sash chain.



Pressure Caps

- Pressure-tight pressure caps for nipples are standard in Steel, Zinc Yellow Dichromate Plated.
- Other materials such as Brass, Aluminium and Stainless Steel available on special order.
- Sizes available 1/4" thru 3".
- Sizes 1/4" thru 3/4" come with 10" length of corrosion resistant Steel cable.
- Sizes 1" thru 3" come with 12" of cable.
- All with adjustable loop at end of cable.

SIZES	PLASTIC PLUG	PLASTIC CAP	ALUMINIUM PLUG	ALUMINIUM CAP	PRESSURE CAP
1/4"	PDP-4	PDC-4	AMPH-4	ADCH-4	MCH-4
3/8"	PDP-6	PDC-6	AMPH-6	ADCH-6	MCH-6
1/2"	PDP-8	PDC-8	AMPH-8	ADCH-8	MCH-8
3/4"	PDP-12	PDC-12	AMPH-12	ADCH-12	MCH-12
1"	PDP-16	PDC-16	AMPH-16	ADCH-16	MCH-16
1 1/4"			AMPH-20	ADCH-20	MCH-20
1 1/2"			AMPH-24	ADCH-24	MCH-24
2"			AMPH-32	ADCH-32	MCH-32
2 1/2"			AMPH-40	ADCH-40	MCH-40
3"			AMPH-48	ADCH-48	MCH-48

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HIGH PERFORMANCE HOSES & PIPES

71 Series

The 71 Series couplings are designed for today's applications including special features for modern needs - dry break, push-to-connect, high pressure, rugged and versatile. Extra large flow chambers and Snap-Tite's exclusive valve design permit exceptional flow while maintaining low pressure drop.

71 Series Dry Break, Non-Spill Couplings

Flush face, Dry Break, General Purpose, Hydraulic Couplings

Features

- **Flush Face/Dry Break** spillage and system contamination are held to a minimum with flush face valve
- **Push-to-Connect** Ideal one-hand operation when one half is mounted. Sleeve retracts to disconnect
- **Rugged Unit** Heavy duty construction ideally suited for tough applications
- **Pressure Capability** Designed for operating pressures up to 10,000 PSI (690 bar)
- **Versatile Construction** Available in Plated Steel, Stainless Steel & high pressure Stainless Steel
- **Range of Sizes** 1/8" thru 2" sizes are available
- Superior flow and low pressure drop
- **Det Norske Veritas (DNV)** Certified
- Autoclave cone & threaded fittings are available
- **Sleeve Lock Feature** This optional feature protects against accidental disconnection

Benefits

Snap-Tite's 71 Series quick disconnect product line offers customers an economical flush face, dry break coupling capable of operating at pressures to 10,000 PSI (690 bar). Special seals are available to handle troublesome media as well as optional Autoclave Engineers cone and threaded end fittings for high pressure applications. The 71 Series is ideal for test stands and other hydraulic and chemical applications where endurance and cleanliness are requirements.

Pressure Ratings

Size (Ins)	Spillage (CC)	Air Inclusion (CC)	STEEL				316 STAINLESS STEEL				HIGH PRESSURE STAINLESS STEEL			
			Max. Working		Min Burst*		Max. Working		Min Burst*		Max. Working		Min Burst*	
			PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/8"	.12	.02	10,000	689	22,000	1517	N/A		N/A		N/A		N/A	
1/4"	.02	.01	10,000	689	20,000	1379	5,000	344	12,500	862	10,000	689	20,000	1379
3/8" x 1/4" **(1)**	.02	.02	10,000	689	20,000	1379	5,000	344	12,500	862	10,000	689	20,000	1379
3/8"	.02	.02	10,000	689	20,000	1379	5,000	344	12,500	862	10,000	689	20,000	1379
3/8" x 1/2" **(2)**	.02	.02	10,000	689	20,000	1379	5,000	344	12,500	862	10,000	689	20,000	1379
1/2"	.03	.03	10,000	689	20,000	1379	5,000	344	12,500	862	10,000	689	20,000	1379
3/4"	.06	.04	7,500	517	15,000	1034	5,000	344	12,500	862	7,500	517	15,000	1034
1"	.10	.06	7,500	517	15,000	1034	4,000	275	10,000	689	7,500	517	15,000	1034
1" x 1 1/4" **(3)**	.10	.06	7,500	517	15,000	1034	4,000	275	10,000	689	7,500	517	15,000	1034
2" x 1 1/2" **(4)**	5.25	30.50	5,000	344	10,000	689	3,000	206	6,000	413	5,000	344	10,000	689
2"	5.25	30.50	5,000	344	10,000	689	3,000	206	6,000	413	5,000	344	10,000	689

(1) Unit is 3/8" with 1/4" end fitting.
(2) Unit is 3/8" with 1/2" end fitting.
(3) 1" Unit with 1 1/4" end fitting.
(4) 2" Unit with 1 1/2" end fitting.

NOTE:*
Pressure Ratings were established under static pressure conditions. For high impulse applications, multiply the above pressure ratings by .6 for approximate pressure ratings.

** For Det Norske Veritas (DNV) compliance, divide the burst pressure by 4 for the maximum working pressure.

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71 Series

How to Order

PART NUMBER	71-3	C	4-	4	RP	OPTIONS	
Material	**Series**	**Coupling Half**	**Coupling Size**	**End Fitting Size**	**End Fitting Type**	**Seals**	**Options**
No Letter	71-3	C	2 = 1/8"	2 = 1/8"	RP	Standard	SL
=	=	=	4 = 1/4"	4 = 1/4"	=	=	=
Plated Steel	1/4" thru 1 1/4"	Coupler	6 = 3/8"	6 = 3/8"	Female British	Buna	Sleeve Lock
S	71-1	N	8 = 1/2"	8 = 1/2"	Parallel	V	
=	=	=	12 = 3/4"	12 = 3/4"	F	=	
Stainless Steel	1 1/2" & 2"	Nipple	16 = 1"	16 = 1"	=	Viton	
SH			32 = 2"	20 = 1 1/4"	Female NPT	E	
=				24 = 1 1/2"	M	=	
High Pressure				32 = 2"	=	Ethylene	
Stainless Steel					Male NPT		

PLASTIC DUST CAP		
Size	**Coupler Dust Cap**	**Nipple Dust Cap**
1/4"	71-3PCC-4	71-3PNC-4
3/8"	71-3PCC-6	71-3PNC-6
1/2"	71-3PCC-8	71-3PNC-8
3/4"	71-3PCC-12	71-3PNC-12
1"	71-3PCC-16	71-3PNC-16

72 Series

The 72 Series Quick Disconnect Coupling is designed to meet or exceed ISO Series B requirements. This ISO specification stipulates the test parameters of the couplings and the nipple dimensions so the units will interchange with those of other manufacturers meeting this same specification. The 72 Series features superior pressure and flow characteristics over the competition making it the premier ISO industrial interchange.

72 Series General Purpose Poppet Coupling

ISO 7241-1 Series B (ISO-B) Interchange Coupling

Features

- **Available Sizes** - 1/8" thru 1"
- **Working Pressure** - To 7,500 PSI (520 bar)
- **Performance** - Exceeds pressure & flow characteristics of the competition
- **Materials** - Available in Steel, Brass, 303 or 316 Stainless Steel or optional exotic Alloy as required
- Double shut-off valve configuration
- **Interchangeable** - Connects to other manufacturers ISO 7241-1 Series B (ISO-B) units
- Proven ball-locking mechanism
- **Sleeve Lock** - Available safety option to prevent accidental disconnection

Benefits

Applications for the Snap-Tite 72 Series include general in-plant use, chemical transfer, chemical injection, test equipment, mobile equipment all the way to rug cleaning. This product line is also available with special seal materials, which allow it to be used in food applications such as fryers. Other modifications are possible as well to handle special applications.

Pressure Ratings Double Shut-off (Valved and Valved)

Size	STEEL				STAINLESS STEEL				BRASS			
	Max. Working		Min Burst		Max. Working		Min Burst		Max. Working		Min Burst	
	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/8"	5,000	345	20,000	1,380	4,000	280	16,000	1,105	3,000	210	12,000	830
1/4"	7,500	520	30,000	2,070	5,500	380	22,000	1,520	3,750	260	15,000	1,035
3/8"	5,000	345	20,000	1,380	3,750	260	15,000	1,035	2,750	190	11,000	760
1/2"	5,000	345	20,000	1,380	3,750	260	15,000	1,035	3,000	210	12,000	830
3/4"	4,000	280	16,000	1,105	3,000	210	12,000	830	2,200	155	8,800	610
1"	4,000	280	16,000	1,105	3,000	210	12,000	830	1,500	105	6,000	415

How to Order

PART NUMBER B	72	C	4	4	RP	OPTIONS	
Material	**Series**	**Coupling Half**	**Coupling Size**	**End Fitting Size**	**End Fitting Type**	**Seals**	**Options**
No Letter	72	C	2 = 1/8"	2 = 1/8"	RP	Standard	SL
=		=	4 = 1/4"	4 = 1/4"	=	=	=
Plated Steel		Coupler	6 = 3/8"	6 = 3/8"	Female British	Buna	Sleeve Lock
S		N	8 = 1/2"	8 = 1/2"	Parallel	V	
=		=	12 = 3/4"	10 = 5/8"	F	=	
Stainless Steel		Nipple	16 = 1"	12 = 3/4"	=	Viton	
303				16 = 1"	Female NPT	E	
SS						=	
=						Ethylene	
Stainless Steel							
316							
B							
=							
Brass							

SIZES	PLASTIC PLUG	PLASTIC CAP
1/8"	72PDP-2	72PDC-2
1/4"	72PDP-4	72PDC-4
3/8"	72PDP-6	72PDC-6
1/2"	72PDP-8	72PDC-8
3/4"	72PDP-12	72PDC-12
1"	72PDP-16	72PDC-16

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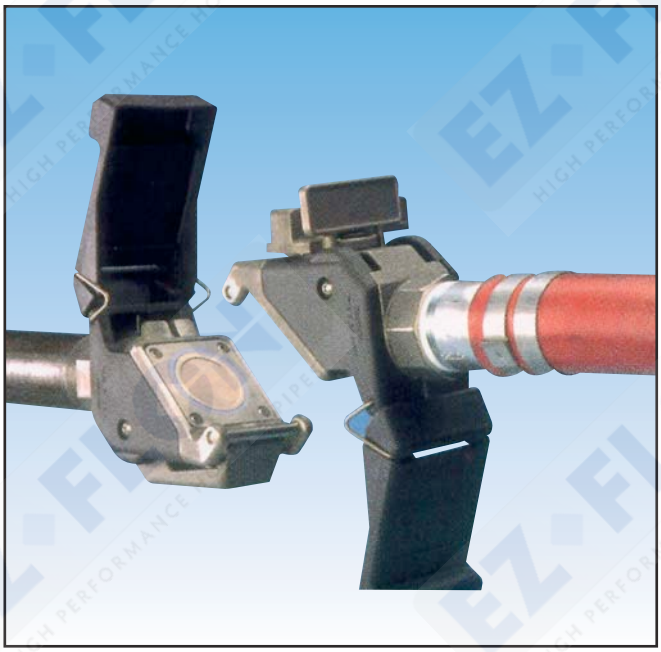
Dry Link Dry Disconnect Couplings

"The ultimate dry disconnect designed for critical applications where any spillage must be avoided. Patented valve design gives a remarkably lightweight, low maintenance unit, while a mechanical interlock prevents accidental openings. With very low pressure drop, ideal for fluid transfer where the prevention of spillage is all important."



Chemicals can be inexpensive until they leak/drip and then cost thousands to clean up!

You can avoid this expense and associated legal actions – just use Dry Link.

Dry Link uses a unique drip-free design to trap chemicals before they leak onto the floor. Protect your workforce, the environment and your budget.

Dry Link products are also lightweight for ease of handling and use fewer internal components for maximum flow.

Product Information

Lots of flow, with hardly a drop. The revolutionary hose coupling that prevents spillage.

Drip-Free Design

- Minimises exposure to fluids in the line
- Eliminates costly clean-ups
- Offers greater protection for workers and the environment

No Spills

- Identical disc halves securely seal flow in the line
- Mechanical interlock prevents accidental opening
- Disc must be sealed and closed before coupler and adaptor can be separated

Better Flow

- Fewer internal components create a better flow rate
- Smooth bore, simple configuration of Dry Link assembly result in lowest pressure drop available
- Ideal for higher viscosity fluids

Easy Operation and Maintenance

- Up to 50% lighter than comparable dry disconnect units
- Coupler has built-in swivel which eases alignment
- Parts are accessible for easy maintenance

Dry Link®

Technical Information

THIS PRODUCT IS NOT RECOMMENDED FOR USE WITH GASES

WARNING:

FOR ONE TIME FIELD TEST ONLY, the maximum joint working pressure may be increased to 1 1/2 times the figures shown.

Vacuum: Tested to 28" (711mm Hg) vacuum in all positions without leakage.

Miscellaneous Test Data

Bending moments (coupled assembly):

Maximum 200 ft-lbs. (271 n*m) at the swivel

Temperature Data

The Dry Link adaptor/coupler assembly has an operating temperature range of: -20° F to +230° F (-29° C to +110° C), using Fluoroelastomer or EPDM seals and +20° F to +230° F (-7° C to +110° C) using PTFE seals.

Seals made of Perfluoroelastomer material may be rated to higher temperatures.

Materials Data

Wetted Metal Parts:

All 316 Stainless Steel (standard), Alloy 20 (Carpenter 20 CB-3) and Hastelloy C (Optional)

*Disc is Electroless Nickel Plated (ENP) to minimize wear and galling.

Main Seals:

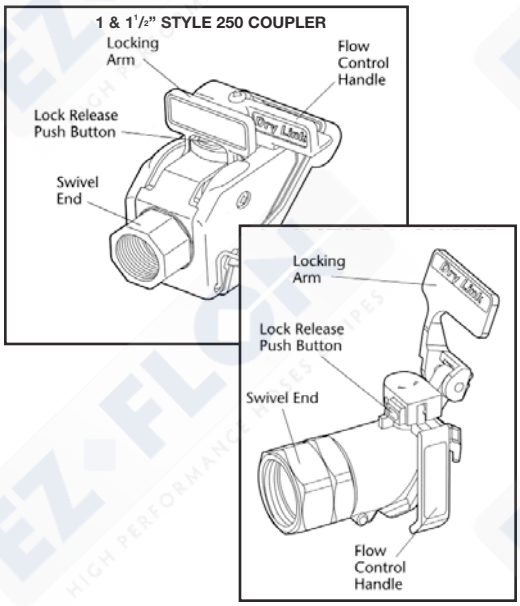
Choice of PTFE (Teflon®), Fluoroelastomer (Viton®), EPDM or Perfluoroelastomer (FFKM, Kalrez®, Chemraz®).

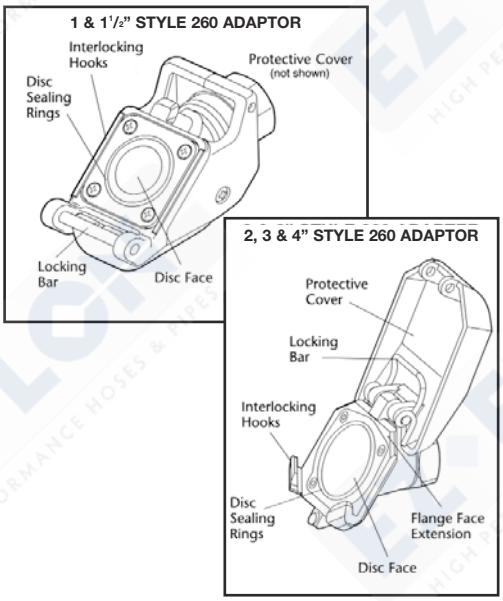
Teflon®, Viton® and Kalrez® are the registered trademarks of Dupont Dow Elastomers Company.

Chemraz® is the registered trademark of Green Tweed Company.

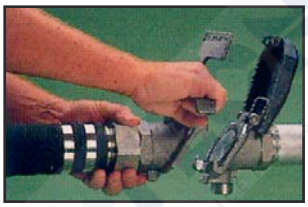
Pressure Data

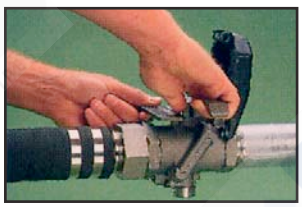
Maximum Working Pressure			
1"	(DN 25)	210 PSI	(14.3 bar)
1 1/2"	(DN 40)	210 PSI	(14.3 bar)
2"	(DN 50)	150 PSI	(10.3 bar)
3"	(DN 80)	120 PSI	(8.3 bar)
4"	(DN 100)	120 PSI	(8.3 bar)

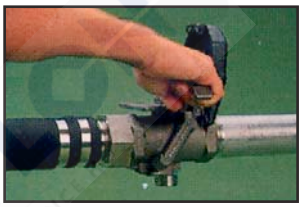




Simple Connection and Operation







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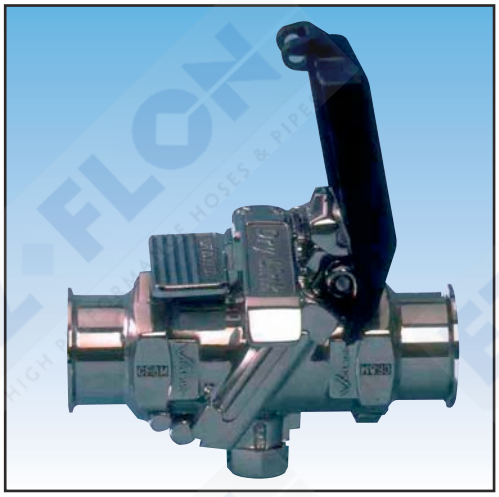
Special Features

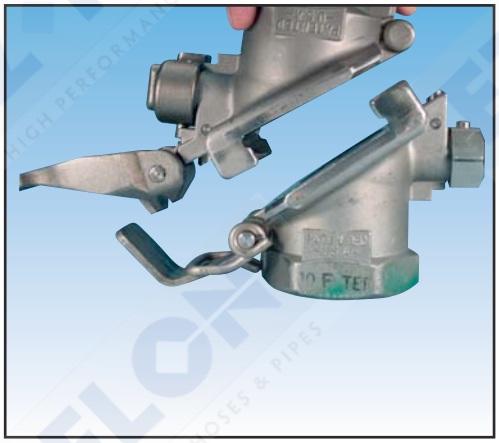


Tri-Clover Ends and Polished Internals

For use in the pharmaceutical and food processing industries

Keyed Dry Links

For prevention of accidental cross-contamination of products



Stageing Device

Available for ease of handling for vertical loading of 2" and 3"

Pressure Cap

For added protection, a metallic pressure cap is available on 2" and 3"

Body Material Options - for Highly Corrosive Applications

Alloy 20

Carpenter 20, Carpenter CB-3, ASTM A351 Grade CN7M

Introduced for sulphuric acid applications

Hastelloy C

ASTM A494 Grade CW2M

Introduced for all highly corrosive applications

Special Main Seal Options - Perfluoroelastomer

The main seal is now available in Elastomeric PTFE material. (Perfluoroelastomer FFKM Trade names being Chemraz® and Kalrez®). This is the most chemical resistant and tough elastomer available in the marketplace. These seals have been introduced because they do not score as easily as PTFE and will last longer in harsh environments.

Product Guidance Chart

Dry Link Couplings are available in a variety of standard and special features as shown below.

TYPE	SIZE	BODY MATERIAL	MAIN SEAL MATERIAL	END CONNECTION	SPECIAL FEATURES
Coupler	1" (DIN 25)	SS 316	PTFE	BSP (Female)	Sanitary with 20 RA polished internals
(Style 250)	1.5" (DIN 40)	Alloy 20	Viton	NPT (Female)	FDA approved seals
	2" (DIN 50)	Hastelloy C	EPDM	Butt-weld	Keyed couplings
	3" (DIN 75)		Chemraz	Flanged (ANSI Class 150)	As specified by the customer
	4" (DIN 100)			Triclover	
Adaptor	1" (DIN 25)	SS 316	PTFE	BSP (Female)	Sanitary with 20 RA polished internals
(Style 260)	1.5" (DIN 40)	Alloy 20	Viton	NPT (Female)	FDA approved seals
	2" (DIN 50)	Hastelloy C	EPDM	Butt-weld	Keyed couplings
	3" (DIN 75)		Chemraz	Flanged (ANSI class 150)	Safety pressure cap with back-up seal
	4" (DIN 100)			Triclover	Staging accessory for vertical loading
					As specified by the customer

Coupler and Adaptors

NOMINAL SIZE	1"	1½"	2"	3"
Seal Material	**Code**	**Code**	**Code**	**Code**
Style DLF Coupler (With Built-in Swivel End and Protective Cover). For NPT, Change BSP to NPT to code below				
PTFE	DLF100-T-BSP	DLF150-T-BSP	DLF200-T-BSP	DLF300-T-BSP
VITON	DLF100-V-BSP	DLF150-V-BSP	DLF200-V-BSP	DLF300-V-BSP
EPDM	DLF100-E-BSP	DLF150-E-BSP	DLF200-E-BSP	DLF300-E-BSP
CHEMRAZ	DLF100-C-BSP	DLF150-C-BSP	DLF200-C-BSP	DLF300-C-BSP
Style DLM Adaptor (With Swing-down Protective Cover). For NPT, Change BSP to NPT to code below				
PTFE	DLM100-T-BSP	DLM150-T-BSP	DLM200-T-BSP	DLM300-T-BSP
VITON	DLM100-V-BSP	DLM150-V-BSP	DLM200-V-BSP	DLM300-V-BSP
EPDM	DLM100-E-BSP	DLM150-E-BSP	DLM200-E-BSP	DLM300-E-BSP
CHEMRAZ	DLM100-C-BSP	DLM150-C-BSP	DLM200-C-BSP	DLM300-C-BSP

Replacement Kits

NOMINAL SIZE	1"	1½"	2"	3"
Replacement Kit	**Code**	**Code**	**Code**	**Code**
Replacement Part Kits				
PTFE Main Seal Kit: For Coupler Only	K010250131	K015250131	K020250131	K030250131
PTFE Main Seal Kit: For Adaptor Only	K010250141	K015250141	K020250141	K030250141
EPDM Main Seal Kit: For Coupler Only	K010250A3B	K014250A3B		
EPDM Main Seal Kit: For Adaptor Only	K010260B3B	K014260B3B		
Main Seal - VITON			K020250201	K030250201
Main Seal - EPDM			K020250301	K030250301
CHEMRAZ 'O' Ring	K010250121	K015250121		
PTFE Encapsulated 'O' Ring			K020250121	K030250121
VITON 'O' Ring			K020250221	K030250221
EPDM 'O' Ring			K020250321	K030250321
Swivel Seal Kit	K010250051	K015250051	K020250051	K030250051
Locking Arm Kit	K010250041	K015250041	K020250041	K030250041
Flow Control Handle	K010250042	K015250042	K020250042	K030250042
Coupler Disc Kit	K010250031	K015250031	K020250031	K030250031
Adaptor Disc Kit	K010250033	K015250033	K020250033	K030250033
Adaptor Locking Cap	K010250032	K015250032		
Disc Lock Plunger			K020250032	K030250032
Coupler Cover and Side Panels	K010250053	K015250053		
Coupler Dust Cover			K020250053	K030250053
Adaptor Cover and Side Panels	K010250052	K015250052		
Adaptor Cover and Locking Bar			K020250052	K030250052
Seal Replacement Tool	K010250T1A	K014250T1A	K020250T1A	K030250T1A

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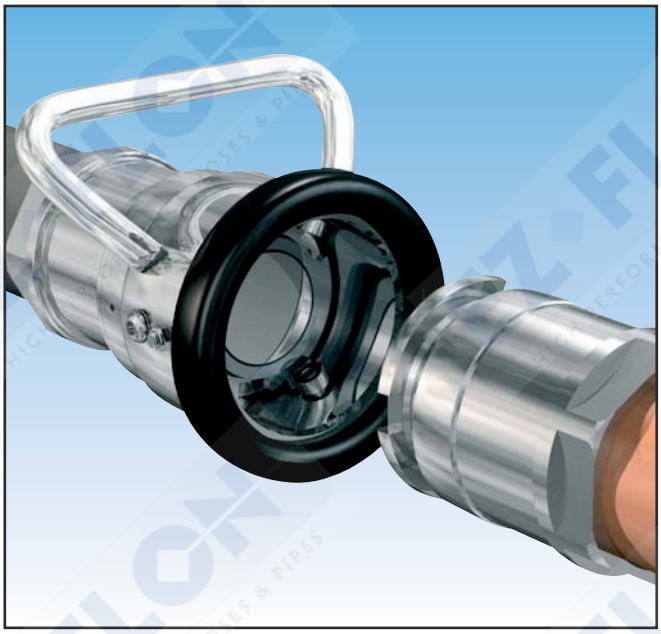
Mann-Tek DDCouplings®



Unique Design Gives Several Advantages

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

Safe

- The valve opens as the valve is coupled together

Environmentally Friendly

- Accidental spillage eliminated

Reliability

- No loss or spillage at connection or disconnection

Mann-Tek Couplings should be used at transfer points for fluids, gases or bulk powders, where spills can be costly and hazardous. They are especially needed in areas of zero tolerance spillage when your product:

- is of high value
- requires costly environmental methods of cleaning up in case of spillage
- is expensive to reprocess or dispose of
- is hazardous to the environment
- can cause a health risk
- is prone to accidental spillage and product loss

DDCouplings® 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 caustic products and speciality acids.

They are in use in installations all over the world, especially where certification is a pre-requisite and are certified by TÜV, Apragaz, Veritas, TDT, plus regionally required approvals.

DDCouplings® are CE-branded and produced according to NATO standard STANAG 3756 and can be delivered with Atofina General Technical Documents compliance, if this is specified by the customer.

Size

The couplings are available in sizes from $^{3}/_{4}$" (DN 20) to 4" (DN 100) with BSP, NPT and S60x6 threads. Other threads are available on request. The tank units are also available in flanged connections (DIN, ASA, TW, TTMA, EN 1092-1:2001).

Materials

Aluminium, Brass/Gunmetal, Stainless Steel, Hastelloy C and PEEK.

Seals

FPM (Viton®), EPDM, Chemraz®, NBR (Nitrile) Kalrez®.

Working Pressure

PN10 – PN25

Selectivity – Avoid Mixing Products

To avoid product contamination caused by connecting a hose unit to the wrong tank unit, selective versions of the hose and tank units are available. Each unit has a number of selective positions, designated by a coded part number according to the coupling size – specify when placing order.

Interchangeability

Compatibility with other existing brands according to NATO STANAG 3756 and ATOFINA SGM 2049:TUY.C

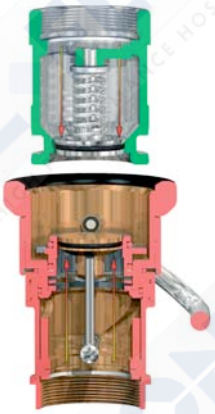
Special Models

With integrated break-away, pressure relief valve etc. on request.

How it Works

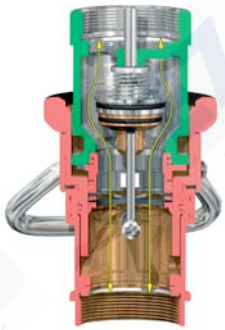
The Coupling Function

The principle of operation is identical for all sizes of DDCouplings®



Closed

Turn and pull – it's released - no spillage



Open

Push and turn – it's coupled - full flow

Reliable Combinations of Materials

Couplings are designed and built to have resistance to the media transferred through them. Therefore, all DDCouplings® are tailored to the requirements of each application, ensuring that all materials of the body and internal working parts are fully resistant.

DDCouplings® Stainless Steel

All wetted parts in Stainless Steel and Hastelloy.

Typical applications:

- Chemical industry
- Pharmaceutical industry
- Waste transfer

DDCouplings® Brass/Gunmetal

All wetted parts in Brass/Gunmetal and Stainless Steel.

Typical applications:

- Marine refuelling
- Petrol handling
- Tanker loading

DDCouplings® Aluminium

All wetted parts in Aluminium and Stainless Steel.

Typical applications:

- Military use
- Petrol handling
- Aviation fuel

DDCouplings® Hastelloy

All wetted parts in Hastelloy.

Typical applications:

- Hydrochloric acid

Application Areas

Mann-Tek DDCouplings® are used in a wide range of applications from tanker loading to aviation bunkering.

Oil & Chemical

- Bulk loading/discharge
- Tanker top/bottom loading
- Loading arms
- Exchange manifolds
- Blending pits
- Bunkering
- Rail car outlets
- Paints and inks
- In process products transfer
- Rail locomotive refuelling

Marine

- Ship to shore transfer
- Ship to ship transfer
- Ship to rig transfer
- Well head material supply
- Rig gas exchange
- Rig temporary vent lines
- Ship manifold exchange
- Marine refuelling

Specialized

- Bulk powder transfer (fine non-abrasive only)
- Nuclear coolant and gas
- Aviation bunkering
- Natural gas
- Brewery finished products
- Food feedstock
- Pharmaceutical feedstock
- Hazardous waste transfer
- IBC container outlets
- Bitumen transfer
- ISO retrofit and new build
- Refuelling race cars

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DDCouplings® Product Line

1" DDCouplings® (Socket 56mm)

Used in a diverse range of applications from pharmaceutical processing to auto gas vehicle fuelling, perfume dosing to freon gas transfer.

2" DDCouplings® (Socket 70mm)

2" DDCouplings® probably cover the widest selection of applications in the DDCouplings® range.

Eg: Diesel locomotive refuelling, pharmaceutical processing, blending pits.

2½" DDCouplings® (Socket 105mm)

Used extensively for road tanker bottom loading, aviation fuel bunkering (AVGAS), acid transfer and lubrication blending.

3" DDCouplings® (Socket 119mm)

A true 3" coupling, similar in size to the 2½" but with greater flow.

Typically used for road and rail tank loading/discharge in plant chemical transfers etc.

4" DDCouplings® (Socket 164mm)

Used extensively for offshore ship to rig transfers of fuels and drinking water, aviation fuel bunkering, rail tank loading/discharge etc.

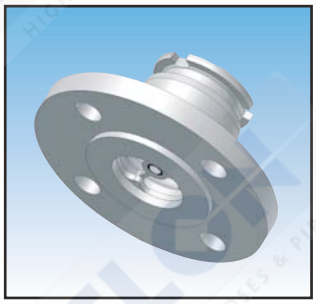
Plugs and Caps

Available in Stainless Steel and Composite material.

Other material on request.

Corrosive Liquids

DDCouplings® are available in PEEK, a high resistant plastic material for corrosive liquids, or Hastelloy. Inner parts are of Hastelloy, seals of FPM, FFPM, Chemraz® or Kalrez®.



PN25 for Gases

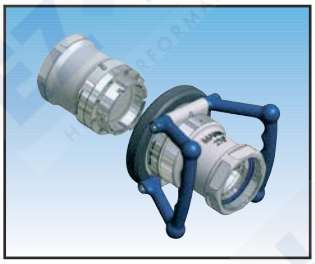
DDCouplings® in Stainless Steel have been approved and certified by APRAGAZ in pressure stage PN25 bar for gaseous media, e.g. LPG, Ethylene Oxide and Propylene Oxide. Tank unit with a thick flange.

EN 1092-1:2001 Type E: Spigot.

Nominal Size mm	Thread	ALUMINIUM Code	BRASS Code	STAINLESS STEEL Code
Hose Unit Female BSP Coupler, For NPT, Add -NPT to code below				
56	1"	HU56MM10FV-M-AL	HU56MM10FV-M-GM	HU56MM10FV-M-SS
70	1.5"	HU70MM15FV-M-AL	HU70MM15FV-M-GM	HU70MM15FV-M-SS
70	2"	HU70MM20FV-M-AL	HU70MM20FV-M-GM	HU70MM20FV-M-SS
105	2.5"	HU105MM25FV-M-AL	HU105MM25FV-M-GM	HU105MM25FV-M-SS
105	3"	HU105MM30FV-M-AL	HU105MM30FV-M-GM	HU105MM30FV-M-SS
119	3"	HU119MM30FV-M-AL	HU119MM30FV-M-GM	HU119MM30FV-M-SS
164	4"	HU164MM40FV-M-AL	HU164MM40FV-M-GM	HU164MM40FV-M-SS
Tank Unit Female BSP Adaptor, For NPT, Add -NPT to code below				
56	1"	TU56MM10FV-M-AL	TU56MM10FV-M-GM	TU56MM10FV-M-SS
70	1.5"	TU70MM15FV-M-AL	TU70MM15FV-M-GM	TU70MM15FV-M-SS
70	2"	TU70MM20FV-M-AL	TU70MM20FV-M-GM	TU70MM20FV-M-SS
105	2.5"	TU105MM25FV-M-AL	TU105MM25FV-M-GM	TU105MM25FV-M-SS
105	3"	TU105MM30FV-M-AL	TU105MM30FV-M-GM	TU105MM30FV-M-SS
119	3"	TU119MM30FV-M-AL	TU119MM30FV-M-GM	TU119MM30FV-M-SS
164	4"	TU164MM40FV-M-AL	TU164MM40FV-M-GM	TU164MM40FV-M-SS
Flanged Tank Unit ASA150lb Adaptor				
105	2.5"	TU105MM25ASA150V-M-AL	TU105MM25ASA150V-M-GM	TU105MM25ASA150V-M-SS
119	3"	TU119MM30ASA150V-M-AL	TU119MM30ASA150V-M-GM	TU119MM30ASA150V-M-SS

Nominal Size mm	ALUMINIUM Code
Dust Cap	
56	PLUGHU56MMV-M-AL
70	PLUGHU70MMV-M-AL
105	PLUGHU105MMV-M-AL
119	PLUGHU119MMV-M-AL
164	PLUGHU164MMV-M-AL
Dust Plug	
56	CAPTU56MMV-M-AL
70	CAPTU70MMV-M-AL
105	CAPTU105MMV-M-AL
119	CAPTU119MMV-M-AL
164	CAPTU164MMV-M-AL

Other Couplings



2'/₂" DACouplings ISO 45/MS 24484

Dry Aviation Couplings are designed for use in aviation/military refuelling systems manufactured to accept the international standard: 2'/₂" the point bayonet, hose and refuelling nozzles, according to: ISO 45/MS 24484/STANAG3105/ British Aerospace Spec. 2C14, with a maximum working pressure of 10 bar.

Also available in military green RAL colour.

Materials: All wetted parts in Aluminium and Stainless Steel.

Flanges: ASA, DIN, TTMA, TW. Other types available on request.

Threads: BSP and NPT.

Sealing Materials: FPM (Viton®). Other materials available on request.

Full Flow Ball Valves

Ball valve and 2-way valves.

Made for petroleum tank trucks.

Material: Aluminium.

Size: 2" to 4", PN10.

Connection: Variety of flange connections.

Swivel Joints

Materials: Aluminium, Brass, Stainless Steel.

Size: ³/₄" to 4", PN10 - PN25

Connection: BSP and NPT.

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DDCouplings® for Ethylene Oxide

Mann-Tek DDCouplings® tank unit and hose unit with a special flange for gases, according to the standard: EN1092-1:2001 Type E: Spigot, BSP threads or with NPT threads.

The Stainless Steel construction has all moving parts pivoted in self lubricated bearings, the coupling function has been optimised for non-lubricating media.

Sizes: DN 50, 2" (70mm) for gas service, DN 80, 3" (119mm) for liquid service.

Operation

The couplings are operated by connecting the hose unit onto the tank unit and rotating it clockwise.

This action secures the units together and forms a gas-tight and leak-proof seal. At the same time the internal valves open, allowing the product to flow through.

Each tank unit contains a 'fail safe' spring loaded valve seating on a tapered seat. The valve is controlled by the action of coupling and uncoupling the base unit.

Materials

Body Material:

Stainless Steel EN 10283-1.4409+AT.
Sealing material:
Chemraz® 505
Others available on request.

Approvals

DDCouplings® in Stainless Steel have been approved and certified by APRAGAZ in pressure stage PN25 bar for gaseous media, e.g. Ethylene Oxide and Propylene Oxide.

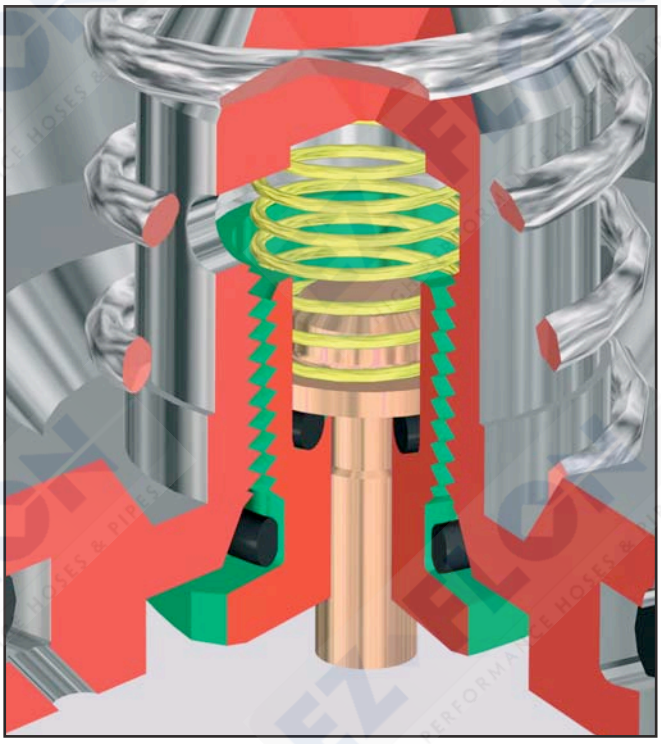
Tank Unit and Hose Unit:

Apragaz: APRAGAZ 0302/P5832

Tank Unit and Hose Unit and Cap:

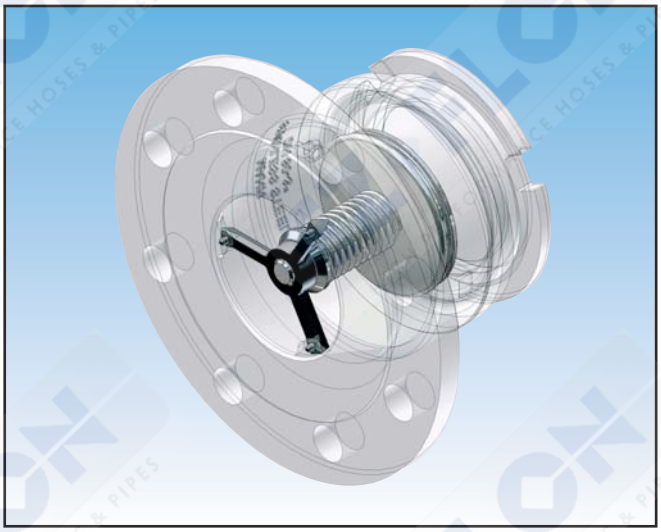
TÜV: TÜ.AGG.304-99

Option



Pressure Relief Valve

This system dissipates trapped fluid pressure into the hose coupler without spillage, to allow easy connection.



Non-Projecting Spindle

Tank units with no parts projecting from the coupling in connected position. For mounting directly onto ball valves, etc.

Fulcrum Dry Break Couplings

Fulcrum dry break couplings are an effective form of connection where exceptionally low spillage and air inclusion properties are required.

- Available in Aluminium, Bronze and Stainless Steel.
- 3/4" to 4" size range.
- BSP or NPT Female threads and flanged options.
- Working pressure 150 PSI (10 bar).
- Connectable against internal pressures up to 60 PSI (4 bar).
- High flow rates / low pressure drops.
- Optional selectivity to prevent cross coupling contamination.
- Tested and approved by TUV.
- Environmentally friendly.
- A team standard product, interchangeable with Todo, Avery Hardoll, Emco Wheaton & Mann-Tek.
- Integrated 360° swivels on hose units.

Applications

Fulcrum couplings have a wide range of industrial applications, which include aircraft refuelling, bottom loading road and rail tankers, handling dangerous, toxic, valuable or unpleasant fluids where minimum spillage is vital.

How it Works

Coupling is connected by rotating the hose unit onto the tank unit. The rotary action forces the internal poppet of the hose unit forward, opening the valve in the tank unit. Once coupled, transfer of product is possible. On disconnection both the hose and tank unit valves close automatically and spill free separation is achieved.

The standard materials are Aluminium, Bronze and 316 Stainless Steel all fitted with Viton seals as standard. Optional seal materials include EPDM, Nitrile, Kalrez etc.

The coupling size is distinguished by the coupling bore of the hose unit and the outside diameter of the tank unit. The standard sizes of which are 56mm, 70mm, 105mm, 119mm and 164mm.

The Fulcrum Dry Break Coupling Range

Hose Unit

Tank Unit

56mm Socket Range
1" Nominal Bore

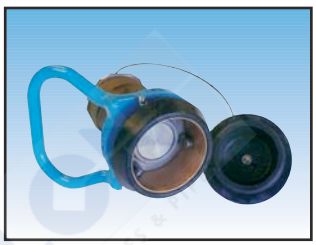
Uses: Transfer of food and pharmaceutical products

Connections: 3/4" and 1" BSP or NPT

Material: Aluminium Bronze, 316 Stainless Steel

Seals: Standard Viton - others upon request

Hose Unit



Tank Unit

70mm Socket Range
1 1/2" Nominal Bore

Uses: As the 56mm range as well as mini IBC containers

Connections: 1 1/2" and 2" BSP, NPT or flanged

Material: Aluminium Bronze, 316 Stainless Steel

Seals: Standard Viton - others upon request

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Hose Unit

Tank Unit

105mm Socket Range
2½" Nominal Bore

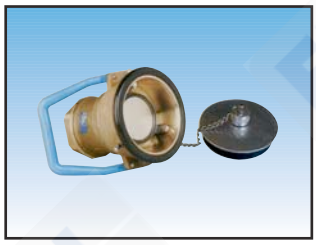
Uses: Road tanker bottom loading, fuel, oils and acids

Connections: 2½" and 3" BSP, NPT or flanged

Material: Aluminium Bronze, 316 Stainless Steel

Seals: Standard Viton - others upon request

Hose Unit



Tank Unit

119mm Socket Range
3" Nominal Bore

Uses: As 105 but for higher loading rates

Connections: 3" BSP, NPT or flanged

Material: Aluminium Bronze, 316 Stainless Steel

Seals: Standard Viton - others upon request

Hose Unit

Tank Unit

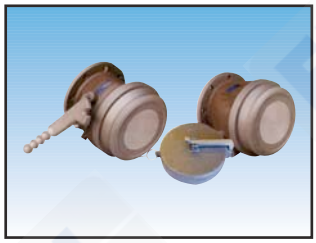
164mm Socket Range
4" Nominal Bore

Uses: Loading/unloading of bulk petroleum tankers

Connections: 4" BSP, NPT or flanged

Material: Aluminium

Seals: Standard Viton - others upon request



Hose Unit

Tank Unit

API Range
4" Nominal Bore

Uses: For petroleum product bulk transfer only

Connections: TTMA 4" flanges

Material: Aluminium

Seals: Viton

Dust Caps and Dust Plugs to Fit All Sizes are Also Available.

Nominal Size mm	Thread	ALUMINIUM Code	BRASS Code	STAINLESS STEEL Code
Hose Unit Female BSP Coupler, For NPT, Add -NPT to code below				
56	1"	HU56MM10FV-AL	HU56MM10FV-GM	HU56MM10FV-SS
70	1.5"	HU70MM15FV-AL	HU70MM15FV-GM	HU70MM15FV-SS
70	2"	HU70MM20FV-AL	HU70MM20FV-GM	HU70MM20FV-SS
105	2.5"	HU105MM25FV-AL	HU105MM25FV-GM	HU105MM25FV-SS
105	3"	HU105MM30FV-AL	HU105MM30FV-GM	HU105MM30FV-SS
119	3"	HU119MM30FV-AL	HU119MM30FV-GM	HU119MM30FV-SS
164	4"	HU164MM40FV-AL		
Tank Unit Female BSP Adaptor, For NPT, Add -NPT to code below				
56	1"	TU56MM10FV-AL	TU56MM10FV-GM	TU56MM10FV-SS
70	1.5"	TU70MM15FV-AL	TU70MM15FV-GM	TU70MM15FV-SS
70	2"	TU70MM20FV-AL	TU70MM20FV-GM	TU70MM20FV-SS
105	2.5"	TU105MM25FV-AL	TU105MM25FV-GM	TU105MM25FV-SS
105	3"	TU105MM30FV-AL	TU105MM30FV-GM	TU105MM30FV-SS
119	3"	TU119MM30FV-AL	TU119MM30FV-GM	TU119MM30FV-SS
164	4"	TU164MM40FV-AL		
Flanged Tank Unit ASA150lb Adaptor				
105	2.5"	TU105MM25ASA150V-AL	TU105MM25ASA150V-GM	TU105MM25ASA150V-SS
119	3"	TU119MM30ASA150V-AL	TU119MM30ASA150V-GM	TU119MM30ASA150V-SS

Nominal Size mm	ALUMINIUM Code	RUBBER Code
Dust Cap		
56		PLUGHU56MMN-NR
70		PLUGHU70MMN-NR
105	PLUGHU105MMV-AL	
119	PLUGHU119MMV-AL	
164	PLUGHU164MMV-AL	
Dust Plug		
56		CAPTU56MMN-NR
70	CAPTU70MMV-AL	
105	CAPTU105MMV-AL	
119	CAPTU119MMV-AL	

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Banjo Dry-Mate

User Friendly

Operating Dry-Mate is simple.

The handles interlock making it easy to identify which handle opens or closes first. No guessing is involved! The two Dry-Mate halves couple together with cam levers for positive engagement.

Design

Dry-Mate is designed for safe and easy spill free connections. The "double ball" design allows maximum flow, while the cam lever style of connection is the most recognised coupling connector.

Features

- Available in Stainless Steel and Polypropylene
- Unrestricted flow
- Minimal fluid spillage
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance*
- Cannot be uncoupled in open position

*Not for low flash point liquids

THIS PRODUCT IS NOT RECOMMENDED FOR USE WITH GASES

Lockable Yoke to Prevent Accidental Spills

Dry-Mate uses a ball valve design giving an unrestricted path for fluid flow. The handles on each half interlock make it easy to identify which handle opens or closes first.

The cam lever style of connection is the most recognised type of connection available. This offers an easy, quick and positive connection of the coupling halves.

For safety the Dry-Mate has a number of features. Both handles have interlock buttons that prevent the ball valves from opening when the halves are separated. The Female part also has a locking yoke that locks the cam levers once the valve handle has been rotated to the open position.

The gasket, which seals between the two halves, is mechanically held in place to ensure that it remains located when the halves are disconnected.

Stainless Steel

Maximum Working Pressure: 100 PSI / 7 bar

Maximum Temperature: 65ºC at 70 PSI

Material: 316 Stainless Steel

Seals: 100% PTFE ball seats and seals

Face seal (that between the two halves) Viton, EPDM (Kalrez® available as an option)

Size Range: 1", 1 1/2", and 2"

End Connection: BSP or NPT Female

Polypropylene

Maximum Working Pressure: 100 PSI / 7 bar

Maximum Temperature: 65ºC at 70 PSI

Material: Fibreglass Reinforced Polypropylene

Seals: PTFE seats and Viton seals

Face seal (between the two halves) in Viton or EPDM (Kalrez® available as an option)

Size Range: 1 1/2" and 2"

End Connection: BSP or NPT Female

Nominal Size		STAINLESS STEEL		POLYPROPYLENE	
Ins	mm	Code	Wt - g	Code	Wt - g
Male Dry-Mate, For NPT, replace BSP with NPT to code below					
1	25	DMA100-SS-BSP	1000		
1 1/2	40	DMA150-SS-BSP	2700	DMA150-P-BSP	1200
2	50	DMA200-SS-BSP	2600	DMA200-P-BSP	1200
Female Dry-Mate, For NPT, replace BSP with NPT to code below					
1	25	DMD100-SS-BSP	1150		
1 1/2	40	DMD150-SS-BSP	3050	DMD150-P-BSP	1200
2	50	DMD200-SS-BSP	3000	DMD200-P-BSP	1200

DryDis

Material
Stainless Steel

Certifications
TUV

Working Pressure
16 bar standard, 25 bar on request

Sizes
DN 25-G 1" up to DN 100-G 4"

Potential Areas of Application

In all fields of industry

Technical Advantages

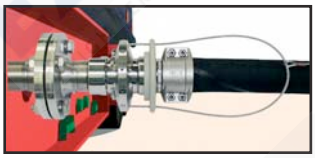
Easy handling, high leverage, lightweight, high serviceability, stream optimised stiff design cinematic components, lubricant free.

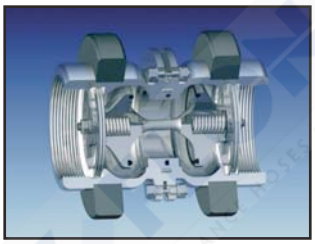
A coupling for applications where the need for minimum spillage/air inclusion is related to the maximum flow rate.

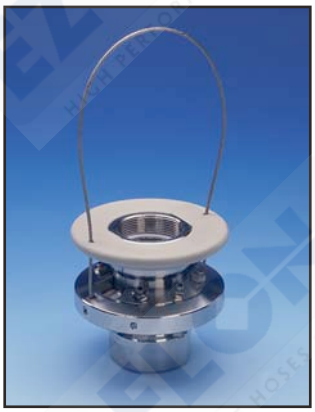
Extremely low spillage due to any moving parts being outside the flow movement.

Ideal for highly aggressive products.

Self-Sealing Breakaway Coupling







Material
Stainless Steel, Brass, Aluminium, Hastelloy

Certifications
All structural members certified under TÜV-No TÜ-AGG 214

Sizes
DN 40 - G2 up to DN 80 - G4

Potential Areas of Application

- Stationary and mobile storage tankers
- Road and rail tankers
- Chemical industry
- Food industry
- Plant and power station construction
- Shipbuilding

Technical Advantages

- Compact construction
- Superior quality and safety through use of TÜV Approved materials
- Standard thread DIN-ISO 228 - 100% flow rate as in the given hose size

Designed to protect the loading hoses, the loading arms and pipelines connected to mobile tankers.

The couplings of both systems are self-sealing thus preventing product loss.

For more information, please call our Sales Office

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