FLUID CONVEYING PRODUCTS

Serving your industry with quality fluid conveying products



Construction



Forestry



Public Safety



Utility



Marine and Defense



Oil and Gas



Transportation

\\eroquip



Steel

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Machine Tool

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FLUID CONVEYING PRODUCTS

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QUICK DISCONNECT COUPLINGS

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Industry Application Symbols

Industry symbols are provided for each coupling indicating where it is typically used. But remember, a coupling can be used in any industry, provided it meets the established application requirements.

Marine and Defense



FD14, FD15, FD35, FD45 (stainless) FD45 (brass), 5100, 5400, 5600, FD69, FD86, FD90

Pharmaceutical/Medical

FD15, FD45 (brass), FD45 (stainless), FD89, 5400

Agriculture

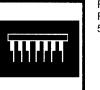


FD14, FD42 FD48, 5400, 5600, FD70, FD71, FD72, FD76, FD89, FD90

FD45, FD49, FD89,

5100, 5400

Electronic Cooling



FD45 (stainless), FD45 (brass), 5100, 5400

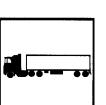


Industrial Plants



FD14, FD35, FD40, FD41, FD43, FD48, FD49, 5100, 5600, FD69, FD86,

Transportation



FD14, FD15, FD42,



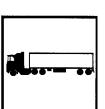
Forestry

Food & Beverage

FD15, FD45 (stainless)



FD45 (steel), FD45 (brass), FD45 (stainless), FD89, FD90



FD45 (steel), FD45 (brass), 5100, 5400, 5600, FD90

Utility



FD14, FD15, FD35, FD45 (steel), FD49, 5100, 5600, FD86, FD89, FD90

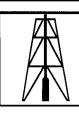
QUICK DISCONNECT COUPLINGS **Chemical Processing**

Construction



FD14, FD15, FD35, FD40, FD41, FD42, FD43, FD45 (steel), FD48, FD49, 5100, 5400, 5600, FD69, FD86, FD89, FD90

Oil and Gas



FD15, FD35, FD45 (stainless), FD45 (brass), 5100, 5600, FD86, FD89, FD90



Maintenance & Repair Operations

FD14, FD40, FD41, FD43, FD45 (steel), FD45 (brass), FD49, 5100, 5600, FD69, FD89, FD90

FD14, FD15, 5600,

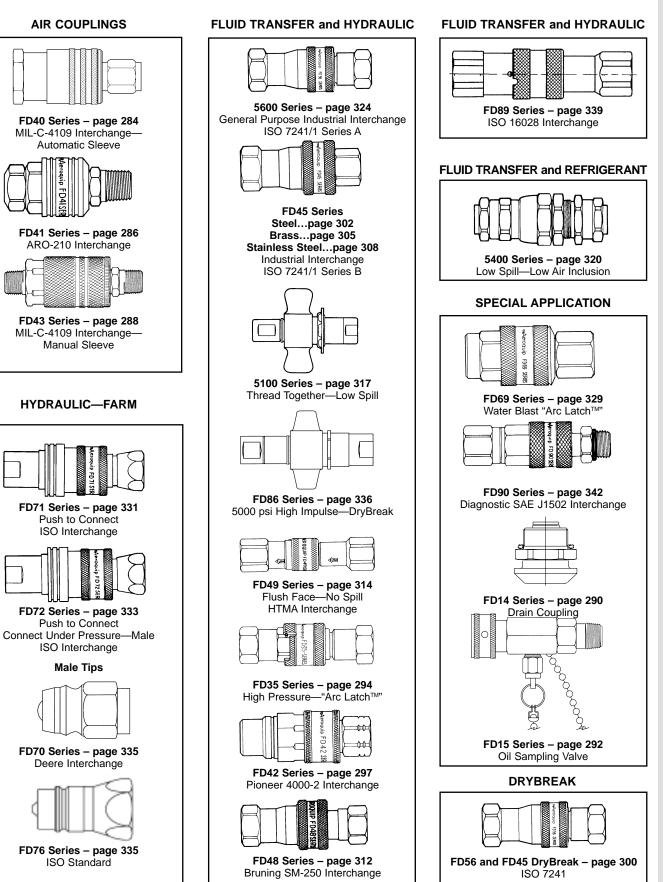
FD86, FD89



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CONFIGURATION INDEX





QUICK DISCONNECT COUPLINGS





How to Order

Aeroquip quick disconnect couplings can generally be ordered as a complete assembly or as separate halves. Couplings ordered by complete assembly part numbers will be supplied by halves. For special packaging, contact Eaton Aeroquip. (The FD14, FD40, FD41, FD43, FD86 and FD90 series are ordered by halves only.)

Standard coupling part numbers are described below:

	<u>5601-8-10</u>
Coupling series and body style	
Port or thread size*	
Nominal coupling size*	
Material (steel)	

	<u>FD45</u> - <u>1002</u> -0	6-06
Coupling series —		
Coupling half and — material designation		
Port or thread size*		

*Size designations are represented in 16ths of an inch, i.e., 06 = %/16 or 3/6 inch

Dimensions

Dimensions in this catalog are for reference only. Actual dimensions may vary from those shown.

Coupling Identification

Generally, the coupling series or complete part number will be stenciled on the coupling body.

Caution:

The user should observe carefully the precautions listed in this catalog. These include selection of seals and body materials for fluid compatibility and recommendations on the selection of quick disconnect couplings. In addition, care should be taken not to exceed the maximum operating pressures listed for each coupling size and type shown in the physical characteristics table for each coupling. Because of possible variations in machining tolerances, quality control, inspection and quality assurance, Aeroquip coupling halves should not be used with coupling halves supplied by other manufacturers except where such use is approved for a particular coupling as noted in this catalog.

For Technical Assistance Contact:

Eaton Aeroquip Industrial Division 3000 Strayer Road, P.O. Box 631 Maumee, Ohio 43537-0631 419/867-2600; Fax: 419/867-2629 www.aeroquip.com

leroquip



Construction



Transportation



Forestry



Safety Information for Aeroquip Coupling and Swivel Products

1.0 General Instructions

1.1 Scope. The scope of this safety bulletin is to warn against improper selection, use, installation, etc. of Aeroquip coupling/swivel products.

1.2 Distribution. A copy of this safety bulletin should be distributed to all individuals responsible for using and/or selecting Aeroquip coupling/swivel products.

1.3 Fail-Safe. Design all systems and equipment for fail-safe operation such that failure of any component does not result in personal injury and/or property damage.

1.4 User Responsibility. It is the sole responsibility of the user to select and determine that the Aeroquip product is compatible with the end use application. The user is responsible for reading and following this safety bulletin as well as any instructions or literature on the Aeroquip product being used. The user must provide necessary product warnings for Aeroquip couplings/swivel products, used with systems or equipment, to the operators of the systems or equipment.

1.5 Usage with other Manufacturers' Products. When using Aeroquip coupling/swivel products with other manufacturers' adapters, hoses, etc., do not exceed the lowest pressure rating of any of the components being used or rupture may result.

2.0 Selection of Aeroquip Couplings/Swivels.

2.1 Pressure. Ensure that the maximum operating pressure of the system or equipment does not exceed the rated operating pressure of the Aeroquip coupling/swivel product or rupture may result.

2.2 Fluid compatibility. Verify that all components (seals, metals, etc.) are compatible with the fluid being conveyed. Failure to do so may result in high speed fluid discharge and/or leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful.

2.3 Temperature. Ensure that the maximum operating temperature of the system or equipment does not exceed the rated operating temperature of the Aeroquip coupling/swivel product (including seals) or rupture may result.

2.4 Coupling/Swivel Size. Use properly sized couplings/ swivels such that there is not a large pressure drop across them thus avoiding system damage due to excessive heat generation or failure of internal components.

2.5 Sleeve Lock. Use sleeve locks or threaded couplings where there is the possibility of accidental disconnection. Failure to utilize sleeve locks or threaded couplings in these applications may result in hose whip, expelled components, high speed fluid discharge, system damage, or leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful.

2.6 Connect or Disconnect Under Pressure. If connection and/or disconnection of couplings under pressure is a requirement, only use couplings designed for connection/disconnection under pressure. Failure to utilize this type of coupling in that application may result in hose whip, expelled components, high speed fluid discharge, and/or system damage. Be certain not to confuse the rated operating pressure with the rated connect/disconnect under pressure.

2.7 Environment. Ensure that Aeroquip couplings/swivels are compatible with the surrounding environment. The surrounding environment may be heat, salt water, moisture, chemicals, and the like. Failure to protect against an adverse environment may cause system damage, premature failure, and/or leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful.

2.8 External Loads. Avoid any external loads such as side loads, tensile loads, vibration, etc. Failure to do so may result in accidental disconnection, premature failure, system damage, and/or leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful.

2.9 Welding & Brazing. Extreme heating of plated products above +450°F (+232°C) such as welding, brazing, baking, etc., where the plating is burned off, may result in the release of deadly gases.

3.0 Installation of Aeroquip Coupling & Swivel Products.

3.1 Inspection of Product. Prior to installation, ensure that the Aeroquip product meets all of the requirements of the system and/or equipment it is to be used on. Ensure you have the correct part number, function test the coupling by connecting it with a mating half, and function test the swivel by rotating the sleeve. The function test should result in smooth, non-binding operation or premature failure may result.

3.2 Cleanliness. Use end caps and plugs to reduce the risk of system contamination or damage to critical sealing surfaces. Failure to do so may result in leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful. Caps and plugs are not a secondary seal unless explicitly noted.

3.3 Location. Place Aeroquip couplings and swivels in a safe location such as not to expose the user to personal injury (slippage, tripping, falling, etc.) during installation, connection, disconnection and maintenance.

4.0 Product Maintenance. A maintenance schedule should be put in place to ensure that Aeroquip couplings and swivels are functioning properly.

4.1 Inspection. Visually inspect to ensure that there is NO leakage, cracked components, corrosion build-up, contamination build-up, wear, etc. If any abnormality is encountered, the coupling or swivel should be replaced immediately.



Quick Disconnect Couplings

Quick disconnect couplings are connecting devices which permit easy, immediate connection and separation of fluid lines. When installed in a fluid system, quick disconnect couplings save time by eliminating system bleeding, recharging and purging of air whenever an accessory is being replaced. Dependability is assured because the coupling valves automatically open and close and because the possibility of air, dirt, and moisture being trapped in the system is minimized.

Aeroquip quick disconnect couplings may be used in systems to help align components and the swivel feature helps prevent twisting of hose assemblies. However, they are not intended to be used as swivel joints in applications subjected to constant rotation. Aeroquip swivel joints should be used in these applications. See pages 229-244.

Selection of Quick Disconnect Couplings

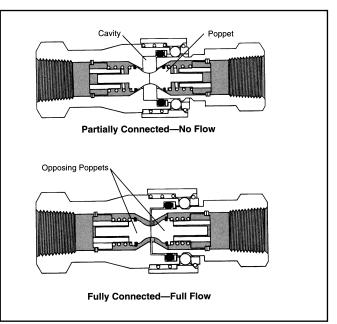
See selection chart on pages 280 and 281.

The following questions should be answered before selecting or specifying a quick disconnect coupling.

- 1. What are the functional requirements of the coupling?
- 2. To what pressures will the coupling be subjected?
- 3. What are the flow requirements of the coupling?
- 4. What is the maximum acceptable pressure drop at specified flow rate?
- **5.** Is the coupling to be connected or disconnected under pressure? How much pressure? Which half?
- 6. What metals are compatible with the fluid in the system?
- 7. What seals are compatible with the system's fluid?
- 8. Are minimum air inclusion or fluid loss upon connection and disconnection critical to the proper operation of the system?
- 9. What threads and end configurations are necessary?
- **10.** Is bulkhead flange or frame mounting necessary?
- **11.** Should the coupling be interchangeable with other couplings presently in use?

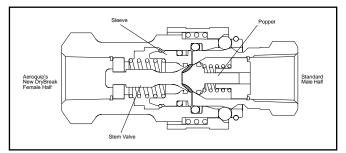
I. Types of Valves

Double Poppet Valves – Most Common FD14, FD35, FD42, FD45, FD48, 5600, FD71, FD72, FD76



- Spring loaded poppet valves in each half immediately selfseal both halves upon disconnection.
- Cavity between halves allows some air inclusion when connecting and some fluid loss upon disconnection.
- Durable and economical.

Stem Valve and Sleeve – Poppet FD45 DryBreak and FD56 DryBreak

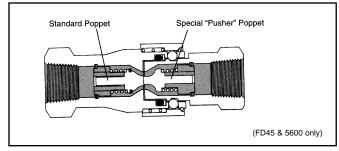


- Patented valving for low air inclusion and fluid loss.
- Allows mating to any standard ISO 7241 poppet style male half.
- Spring loaded sleeve in the female half seals against stem valve and body.
- Poppet valve in opposing half self seals.
- No cavity between halves to cause spillage or air inclusion.

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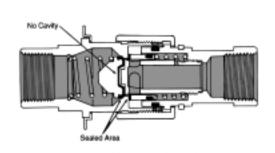
Valved – One Side FD40, FD41, FD43, FD45, 5600



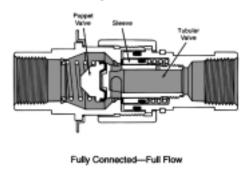
- Immediate self-sealing in valved half only.
- Either male or female half can be valved.
- Full flow in non-valved half upon disconnection.

NOTE: A "Pusher" poppet is needed in non-valved half to open poppet in valved half except for FD40, FD41 and FD43.

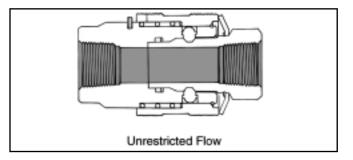
Tubular Valve and Sleeve – Poppet FD49, 5100, 5400, FD86, FD89, FD90



Partially Connected-No Flow



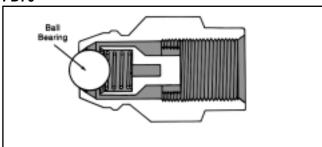
No Valves FD45, 5600, FD69



- Full flow when connected and disconnected.
- Minimum pressure drop.
- Maximum flow.

- Precision valving for low air inclusion and fluid loss.
- Spring loaded sleeve provides access to tubular valve ports.
- Poppet valve in opposing half self seals.
- No cavity between halves to cause spillage or air inclusion.

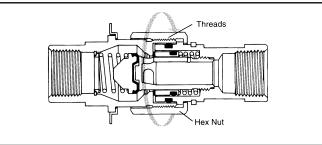
Ball Bearing Valve FD70



- Spring loaded ball bearing.
- Durable and economical.
- Not recommended for vacuum.
- Metal-to-metal seal.

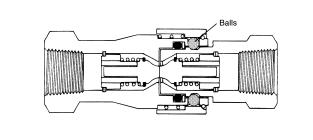


II. Types of Latches Threaded Connections 5100, 5400, FD86



- Uses mechanical advantage of threads to connect or disconnect under pressure.
- Greater holding power under impulsing and vibration.
- Union nuts may be wing or hex type.

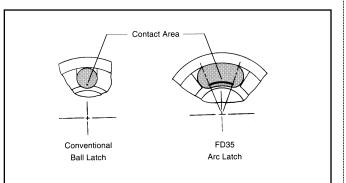
Ball Latch Connections FD14, FD40, FD42, FD43, FD45, FD48, FD49, 5600 (FD56), FD71, FD72, FD89, FD90



- Series of balls on female half, lock into recess on male half.
- Allows for 360° swiveling (not intended for constant swiveling).
- Quick and easy to connect and disconnect.
- Can be used as an emergency breakaway when female sleeve is frame mounted.
- Most popular and economical latching design.

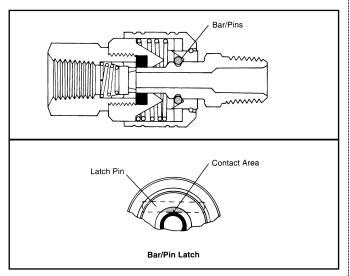
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"Arc Latch™" Connections FD35, FD69



- Exclusive Aeroquip design.
- Series of arcs in female half, lock into recess on male half (same as ball latch).
- Greater surface contact area gives tremendous holding strength.
- For high pressure applications.

Bar/Pin Latch Connections FD41

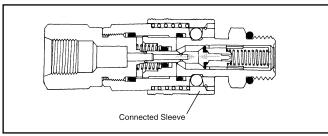


- Two bar/pins in female half lock into recess on male half.
- Allows for 360° swiveling (not intended for constant swiveling).
- Design allows for push to connect operation.
- Typically used for low pressure applications.



Latching Methods—(How To) Push-to-Connect

FD14, FD40, FD41, FD49, FD89, FD90, (FD71, FD72 when female half is frame mounted)



To Connect

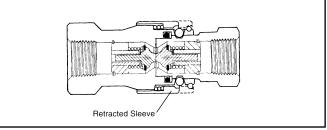
- Relieve system pressure.
- Insert and push male half into female half.
- Release sleeve on female half will connect automatically.
- Only one hand is required.
- FD71, FD72, only—to obtain push-to-connect female half must be frame mounted. (Ref. 5603 breakaway frame.) Female half end port must be connected to a 12" minimum length of flexible hose for full female body motion.

To Disconnect

- Relieve system pressure.
- Manually retract release sleeve on female half and remove male half.
- FD71, FD72 only—female half must be frame mounted and will automatically disconnect when male half is pulled out. This requires a slightly higher force to disconnect.

Retract (Sleeve) To-Connect

FD35, FD42, FD43, FD45, FD48, 5600 (FD56), FD69



To Connect

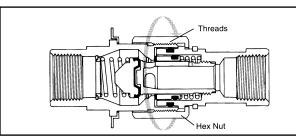
- Relieve system pressure.
- Pull back and hold release sleeve on female half.
- Insert male half.
- Let go of release sleeve on female half.

To Disconnect

- Relieve system pressure.
- Pull back and hold release sleeve on female half.
- Remove male half.
- Let go of release sleeve on female half.

Thread-to-Connect

5100, 5400, FD86



- Prevent male from rotating.
- Insert male into union nut on female body assembly.
- Rotate union nut clockwise.
 With hand if wing nut type.
 With wrench if hex nut type.
- Tighten as follows.

5100 Series

• Tighten until halves bottom out and connection indicator groove is no longer visible.

FD86 Series

• Tighten until halves bottom out and connection indicator *O-Ring* is no longer visible.

5400 Series

 Recommended torque values for S2 half to S5 half are listed below.

Dash Size	Torque – ft. Ibs.				
-4	10–12				
-8	35–37				
-12	45–47				
-16	65–67				



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WARNING: The information provided in the chart below is provided to assist the customer in the selection of appropriate components. The final selection must take into account fluid type, ambient temperature, concentration of agent, nature of exposure to fluid (intermittent or continuous.) A fluid compatibility chart has been provided on page 282 with additional information in the product description. The failure to evaluate these factors may result in the selection of a connector which may fail under operating conditions with the potential for serious personal injury and property damage. Where dash sizes appear in the chart below, the coupling is available only in those sizes.

The check marks (\checkmark) in the chart below indicate product is normally available in either final assembly and/or component form. Contact Eaton Aeroquip for availability of products without a check mark.

										FD45				
Function	Nominal Coupling Size (inches)	Dash Size	FD14 Pg. 290	FD15 Pg. 292	FD35 Pg. 294	FD40 Pg. 284	FD41 Pg. 286	FD42 Pg. 297	FD43 Pg. 288	DryBreak Steel Pg. 300	Steel Pg. 302	Brass Pg. 305	SS Pg. 308	FD48 Pg. 312
	1/8	-2									4500	1000		
	1/4	-4		50/300		300	300	3000	300	4000	5000	1000	3000	3000
	3/8	-6	50		10000	300			300	4000	4000	1000	1500	
	1/2	-8				300			300					
	1/2	-8-10								4000	4000	1000	1500	
	3/4	-12								4000	4000	1000	1500	
	1	-16									4000	1000	1250	
	1 ¹ / ₄	-20										1000		
	1 ¹ / ₂	-24												
	2	-32												
Vacuum (in./Hg.)		•	28	28	28	28	28	28		28/15	28	28	28	28
Choice of Seals	Buna-N		1	1		1	1	1		1	1	1	1	1
(other seal com-	Neoprene								1					
pounds available	EPR									1	1	1	1	
upon request)	Viton*		1		1					1	1	1	1	
	No-spill valving			N/A						1				
	Double valve		1	N/A	1			1		1	1	1	1	1
Valve Options	Valved male only	/		N/A							1	1	1	
-	Valved female or	nly		N/A		1	1		1		1	1	1	
	Straight thru - no	valves		N/A							1	1	1	
	Steel		1	1	1	~	 ✓ 	1	1	1	1			1
Basic Material	Brass											1		
	Stainless Steel												1	
	Aluminum													
	Polypropylene													
	"Arc latch™"				1									
	Ball latch		1			1		1	1	1	1	1	1	1
Latch Style	Bar Pin latch		-			-	1	-			-	-	-	
	Threaded						-							
	Female pipe		1		1	1	 ✓ 	1	1	1	1	1	1	1
	Male pipe			1	•	~		•		•	•		•	
	Fem. st. thd. O-r	ina	•	•	1	•	-	1	•					
	Male st. thd. O-r	-	1	1	•			•						
End Connections	SAE 37° (JIC) m	-	-	-										
	Metric male O-rin		1											
	Braze	'9	•											
	Hose barb								1					
	Bulkhead							1	•					
Mounting Method	Flange							•						
incurring metriou	Frame													+
Connect Under Pre						~	1		1					+
Caps/Plugs	533UI C		1		✓	~	~	1	• •	1	✓	✓	 ✓ 	1
Full Field Service			v		✓ ✓			·		•	✓ ✓	✓ ✓		↓ *
Push to Connect (Automatic Sloav		1		~	1	✓				·	~	~	───
Interchangeable w			×		✓	✓ ✓		1	1	1	✓	<i>✓</i>	✓	1
*Viton is a DuPont trader					~	~	v	v	v	v	~	~	v	v

*Viton is a DuPont trademark

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COUPLING SELECTION CHART



							00						
Function	Nominal Coupling Size (inches)	Dash Size	FD49 Pg. 314	5100 Pg. 317	5400 Pg. 320	DryBreak Pg. 300	Standard Pg. 324	FD69 Pg. 329	FD71 Pg. 331	FD72 Pg. 333	FD86 Pg. 336	FD89 Pg. 339	FD90 Pg. 342
	1/8	-2											
	1/4	-4		3000*	3000*		5000					4350	7000
	³ /8	-6	3000	3000*		4000	4000					4350	
Maximum	1/2	-8		3000*	1750*			10000				3625	
Operating	1/2	-8-10				4000	4000		3000	3000			
Pressure	3/4	-12		3000*	700*	4000	4000					3625	
(psi connected)	1	-16		3000*	700*		4000				5000	3625	
	1 ¹ / ₄	-20		2750*							5000	3625	
	1 ¹ / ₂	-24		2500*								2900	
	2	-32										2900	
Vacuum (in./Hg.)			28	28	28	28/15	28	28	28	28	28	28	28
Choice of Seals	Buna-N		~	1		1	1	~	1	1	1	1	1
(other seal com-	Neoprene				1								
pounds available	EPR			1		1	1	1			1		1
upon request)	Viton [†]			1		1	1	1			1		1
	No spill valving		1	1	1	1					1	1	1
	Double valve		1	1	1	1	1		1	1	1	1	1
Valve Options	Valved male only						1						
	Valved female only						1						
	Straight thru - no						1	1					
	Steel		1		1	1	1	1	1	1	1	1	1
	Brass			1		-		-	-		-	-	
Basic Material	Stainless Steel			-				1					
	Aluminum							•					
	Polypropylene												
	"Arc latch™"							1					
	Ball latch		~			1	~	•	~	~		~	1
Latah Stula	Bar Pin latch		•			~	~		•	•		~	•
Latch Style	Threaded			1									
	Female pipe				~		~	1	1		✓ ✓		
			1	~		✓	~	~	~	~	~	~	
	Male pipe												
	Fem. st. thd. O-rin	0	<i>✓</i>			~	~				1		1
	Male st. thd. O-rin	-	~										
End Connections	SAE 37° (JIC) ma				1								<i>✓</i>
	Metric male O-ring	g											~
	Braze				1								
	Hose barb												
	Bulkhead				1				1	1			1
Mounting Method	Flange			1							1		
	Frame					1	1		1	1			
Connect Under Pr	essure		500	500	1		-8 -10			1	750		500
Caps/Plugs			1	~	~	~	~		~	1	1	~	~
Full Field Service				1	1		1	1			1		
Push to Connect (Automatic Sleeve)		1						1	1		1	1	
Fush to Connect (Interchangeable with Other Brands							•	-		-	

*Not recommended for continuous hydraulic impulse applications at maximum operating pressure. †Viton is a DuPont trademark.

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.





WARNING: Final responsibility for determining compatibility rests with the user.

FLUID COMPATIBILITY

This chart indicates the suitability of various elastomers and metals for use with fluids to be conveyed. It is intended for use with Aeroquip couplings and should not be used to determine compatibility for other products. It is intended as a guide only and is not a guarantee. Final selection of the proper seal or material of metal components is further dependent on many factors including pressure, fluid and ambient temperature, concentration, duration of exposure, etc.

HOW TO USE THE CHART

- 1. Both the elastomer and the metal must be considered when determining suitability of a combination for a coupling.
- Locate the fluid to be conveyed and determine the suitability of the elastomeric and metal components according to the resistance ratings shown for each.
- 3. Dimensional and operation specifications for each coupling can be found on the catalog pages.
- Information on seal options for couplings, and how to specify them, are shown in the respective sections of this catalog.
- Be sure to check the table below for maximum operating temperature range of the elastomer for desired temperature.
- For further details on the products shown in this catalog, and their applications, contact Eaton Aeroquip Inc., Industrial Division, Maumee, Ohio, 419-867-2600.
- 7. Coupling component materials may differ from body material. Refer to specific catalog pages.

RESISTANCE RATING KEY

- E = Excellent Fluid has little or no effect.
- G=Good Fluid has minor to moderate effect.
- $\label{eq:C} C = Conditional Service \ conditions \ should be \ described \ to \ Eaton \ Aeroquip \ for \ determination \ of \ suitability \ for \ application.$

U=UNSATISFACTORY

The differences between ratings "E" and "G" are relative. Both indicate satisfactory service. Where there is a choice, the materials rated "E" may be expected to give better or longer service than those rated "G".

SEAL ELASTOMER DATA

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Seal Elastomer	Application Specification	Max. Operating Temperature Range
Buna-N	none	-40°F to +250°F (-40°C to +121°C)
Neoprene	none	−65°F to +300°F (−54°C to +149°C)
EPR (Ethylene Propylene Rubber)	none	−65°F to +300°F (−54°C to +149°C)
Viton	MIL-R-25897	-15°F to +400°F (-29°C to +204°C)

NOTE: This chart does not apply to bonded seals used in the 5100 and FD86 Series Couplings. Consult Eaton Aeroquip for special applications.

E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Buna-N	Neoprene	EPR/EPDM	Viton*	Steel	Brass	Cres	Aluminum	Monel
FLUID		SE/	ALS				META	L	
Acetaldehyde Acetic Acid, 10% Acetic Acid, Glacial Acetone Acetophenone Acetyl Acetone Acetyl Chloride Acetylene Air, Hot (Up to +160°F) Air, Hot (161°F – 200°F) Air, Hot (201°F – 300°F) Air Wet Aluminum Chloride Aluminum Fluoride Aluminum Sulfate Aluminum Sulfate Aluminas Ammonia, Cold	E U U U U U U U U U E E E E E E	E C U U U U U U U U U U U U U U U U U U	Е С Е С О Е О О Е Е О О Е Е Е Е	О О О О О О О О О О О О О О О О О О О	EGJJEUCCEEEEJJCU	いいんれん のきましい ううきょう	шшОСшшсСшшшшоОСшш	п п с с п с с с п п п п п с с с с с с с	шш ОС ШШШШШШ ОСССС

E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Buna-N	Neoprene	EPR/EPDM	Viton*	Steel	Brass	Cres	Aluminum	Monel
FLUID		SE/		-			METAI	_	
Ammonia, Hot Ammonia, Anhydrous Ammonia, Aqueous Ammonium Carbonate Ammonium Carbonate Ammonium Nikrate Ammonium Nikrate Ammonium Nikrate Ammonium Sulfate/Sulfide Amyl Acetate Amyl Acetate Amyl Acetate Anjline, Aniline Oil Aniline, Aniline Oil Asphat Astm #2 ASTM #1 Astm #2 Astm #2 Astm #2 Astm #2 Astm #2 Astm #2 Astm #2 Barium Chloride Barium Sulfide Datyl Acetate Butyl Acetate Butyl Acetate Butyl Acetate Butyl Acetate Butyl Acetate Butyl Acetate Butyl Acetate Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Dioxide Carbon Chiorobenzene Chiorocetic Acid Chioroaetica Chiorocetic Acid Chioroaetica Citric Acid Copper Choride Copper Sulfate Copper Sulfate Copper Sulfate Copper Sulfate Disesel Oil Disezyl Ether Disesel Oil Diseryl Ether Disesel Oil Diseryl Ether Disesel Oil Diseryl Ether Disesel Oil Diseryl Ether Disesel Oil Diseryl Ether Disesel Oil Disersel Cilulose Ethyl Acetate Ethyl Acetate Ethyl Acetate Ethyl Chloride	U E E U E C E E E U G U U E G E E E E E E E E E U E U	С О С С П О С С О С О С О С О С О С О С	С Э С Э С Э Ш Ф О С Э П Ф О С Э Ш Ф О Э Э О С Э Ш О Э Э О О О О О О О О О О О О О О О	лслстоновония в предокторосорания и предокторосорания и предокторости и предокторости с предокторости с предок	шшшшы Опщопопопопопопопопопопопопопопопопопопо	1000日日 へんしのの日日ののののののののののののののののののののののののののののののののの	ш ш ш О О О О О О Ш Ш Ш Ш Ш Ш О О О О О	равоно и по посто по	рована и половоние половодо с состорово половити и поредерово по половите по половите по полово по полово по по

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.

FLUID COMPATIBILITY

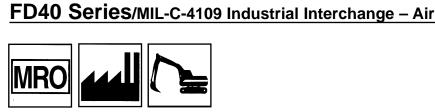
S AP [™]

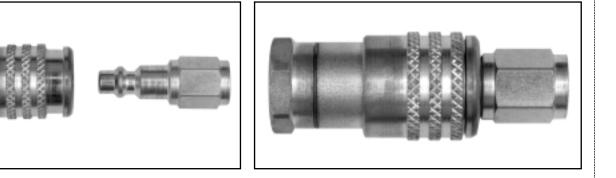
E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Buna-N	Neoprene	EPR/EPDM	Viton*	Steel	Brass	Cres	Aluminum	Monel
FLUID		SE/		-			METAL		~
Ethylene Dichloride	Ŭ	U	U	G	G	С	G	G	G
Ethylene Glycol Ferric Chloride	E	E G	E	E	E U	G U	EU	EU	E U
Ferric Nitrate	E	Ĕ	Е	Е	Ŭ	Ŭ	G	Ŭ	Ŭ
Ferric Sulfate	G	G	G	E	Ŭ	Ŭ	E	U	U
Formaldehyde Formic Acid	C C	C G	G E	G U	E U	E C	E C	G C	G C
Fuel Oil	Ĕ	Ğ	Ū	Ĕ	Ĕ	Ĕ	Ĕ	Ĕ	Ĕ
Furfural	C	C	G	U	G	G	G	G	G
Gallic Acid Gasoline	GE	G C	GU	E	U E	Ē	GE	C E	G E
Gasohol	G	G	U	Ē	Ē	Ē	Ē	Ġ	Ē
Glycerine/Glycerol	Ē	Ē	Ē	Е	Е	G	E	Ē	E
Green Sulfate Liquor	G	G	E	E	Ŭ	U E	E	μ	UE
Helium Heptane	E	E G	U	E	E	E	E	E	E
Hexaldehyde	Ū	Ğ	Ğ	Ū	Ğ	Ğ	Ē	Ē	Ğ
Hexane	E	G	U	Е	Е	Е	E	E	E
Hydraulic Oils Straight Petroleum	E	G	U	Е	Е	Е	Е	E	E
Water Petroleum Emulsion	Ē	G	U	Ē	Ċ	Ē	Ē	Ğ	Ē
Water Glycol	E	Ē	Ē	Е	Ē	Е	E	G	E
Straight Phosphate Ester	U	U	G	C	E	E	E	E	E
Phos. Ester/ Petroleum Blend	U	U	U	С	E	Е	E	E	E
Ester Blend	E	U	U	E	Е	Е	Е	E	E
Silicone Oils	E	E	E	Ē	E	E	E	Ē	E
Hydrobromic Acid Hydrochloric Acid	UU	UU	E G	E	EU	U U	E U	EU	U U
Hydrocyanic Acid	c	č	Ē	Ē	Ē	Ĕ	Ğ	Ē	Ğ
Hydrofluoric Acid	U	Ŭ	С	U	U	U	Ū	U	C
Hydrofluorosilic Acid	GE	G E	E	E	U E	U E	UE	U E	U E
Hydrogen Hydrogen Peroxide	G	G	G	E	Ū	Ŭ	G	Ē	
Hydrogen Sulfide, Dry	U	G	Ē	U	Ĕ	Ğ	G	Ğ	Ğ
Isocyanate	υ	U	G	E	G	_	G	=	
Iso Octane Isopropyl Acetate	E U	GU	U G	EU	E	E	E	E	E
Isopropyl Alcohol	G	Ğ	Ĕ	Ē	Ē	Е	Ē	Ğ	Ē
Isopropyl Ether	G	U	U	U	G	G	G	-	-
JP-4, JP-5	E	UU	UU	E	E	E	E	E	E
Kerosene Lacquer/Lacquer Solvents	Ū	U	U	Ū	Ū	Ē	Ē	Ē	Ē
Lime Sulfur	-	-	-				-	-	
Linseed Oil	E	G	U	E	E	E	E	Ē	E
LPG Lubricating Oils	E	G	U	E	E	Е	E	E	E
Magnesium Chloride	E	Е	Е	Е	Е	С	с	G	G
Magnesium Hydroxide	G	G	Е	E	Е	G	E	G	G
Magnesium Sulfate	E U	EU	EU	E	E	E G	E G	E G	E G
Maleic Acid Maleic Anhydride	U	U	U	E	G	U	E	G	E
Malic Acid	G	G	U	G	U	-	Е	G	E
Mercuric Chloride	E	E	E	E	Ŭ	U	U	U	U
Mercury Methanol	E G	E G	E	E U	E G	U G	E	U G	G E
Methyl Bromide	Ğ	Ŭ	Ū	Ĕ	Е	E	Ğ	Ŭ	Ē
Methyl Chloride	U	U	Ŭ	E	E	E	E	U	G
Methyl Butyl Ketone Methyl Ethyl Ketone	UU	UU	E	U U	E G	E G	E G	- G	E G
Methylene Chloride	Ŭ	Ŭ	Ū	G	G	G	G	G	G
Methyl Isobutyl Ketone	U	U	U	U	G	G	G	G	G
Methyl Isopropyl Ketone	U U	U U	U C	U	G E	G	G G	G E	G G
Methyl Salicylate MIL-L-2104	E	G	U	U E	Ē	G E	E		E
MIL-D-5606	E	G	Ŭ	E	Е	Е	E	E	E
MIL-H-6083	E	E	U	E	E	E	E	-	E
MIL-L-7808 MIL-L-23699	G G	U U	UU	E	G E	G E	E	Ē	Ē
MIL-H-46170	E	G	U	E	Ē	Ē	Ē		E
MIL-H-83282	E	Е	U	E	Е	Е	Е	=	E
Mineral Oils Naphtha	E C	G U	U U	E	G –	E	E	E -	E _
Naphthalene	U	U	U	E	Ē	G	E	G	G
Naphthenic Acid	С	Ū	Ũ	E		G	Е	G	G
Natural Gas	E	E	Ŭ	E	G	G	Ģ	G	Ģ
Nickel Acetate Nickel Chloride	C E	C G	E	G E	G U	C U	E G	G U	E G
Nickel Sulfate	Ē	E	Ē	Ē	U	G	G	U	G
Nitric Acid, to 10%	U	U	U	E	U	U	Е	U	U
Nitric Acid, over 10%	U	U	U	G	U	U	E	C	μ
Nitrobenzene	UE	UE	UE	G E	E	G E	E	E	E
Nitrogen									

This chart is intended for reference use only. The information in this chart pertains strictly to material compatibility and is not intended to be used as an application guide. See page 272 for application information. For applications not included on these pages, please contact Eaton Aeroquip Inc.
*Viton is a DuPont trademark.

						2			\mathcal{D}	
E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Buna-N	Neoprene	EPR/EPDM	Viton*	Steel	Brass	Cres	Aluminum	Monel	
FLUID		:	SEALS	;			ME	TAL		
Oleic Acid Oleum (Fuming Sulfuric	U U	U U	C U	G E	C G	E U	G G	C U	G U	
Acid) Oleum (Mineral Spirits)	E	G	υ	E	E	E	E	E	E	
Ortho-Dichlorobenzene Oxalic Acid	Ū G	Ŭ G	Ŭ E	E	G U	G C	G C	G C	G C	
Oxygen Palmitic Acid	– E	- G	– G	Ē	G G	G -	G E	G G	G G	
Para-Dichlorobenzene Pentane	U E	U E	U U	E	G G	G G	G G	G E	G G	
Perchloroethylene Phenol (Carbolic Acid)	UUU	UU	U G	E	C U	G	G	GE	E G	
Phosphoric Acid Phosphorous Trichloride	UU		GE	E	UCC	E U	E C	E	E	
Potassium Acetate Potassium Chloride	G E E	G E E	E E	U E E	C E C	G C U	C E	U U U	G G C	
Potassium Cyanide Potassium Dichromate Potassium Hydroxide,	E G	E G	E	E G	CG	C G	G C G		C C E	
to 10% Potassium Hydroxide,	c	c	E	U	G	G	G		E	
over 10% Potassium Nitrate	E	E	E	E	G	G	E	G		
Potassium Sulfate Propane	Ē	Ē	Ē	Ē	– E	– E	– –	– E	– E	
Propyl Acetate Propyl Alcohol	Ŭ E	U E	G E	U E	E	Ē	E	E	E	
Propylene Refrigerant R-12	U G	U E	U C	E	E	E	E	E	E	
Refrigerant R-13 Refrigerant R-22	G U	E	C C	E U	E	E E	E	E	E E	
Refrigerant R-134a Sewage	C E	E	C E	UE	E G	E G	E G	E G	E G	
Soap (Water Solutions) Sodium Acetate	E G	E G	E	E U	E	E	E G	U E	E	
Sodium Bicarbonate Sodium Borate	E E E	E E E	E E	E	GE	GE	E	G	E - E	
Sodium Carbonate Sodium Chloride Sodium Cyanide	E	E	E	E	E U E	G C	E C C	U E U		
Sodium Hydroxide, to 10%	Ū	Ğ	Ē	Ē	Ċ	G	č	Ŭ	c	
Sodium Hydroxide, over 10%	U	U	G	E	С	С	С	U	С	
Sodium Hypochlorite Sodium Metaphosphate	C E	C E	E	C E	U E	U G	U G	U U	C G	
Sodium Nitrate Sodium Perborate	G G	G G	E	Ē	E C	C U	E C	E U	E C	
Sodium Peroxide Sodium Phosphates	G E	G E	E	E	U U	U E	C G	C U	C E	
Sodium Silicate Sodium Sulfate	E	E	E	E	E G	E G	E G	E G	E G	
Sodium Sulfide Sodium Thiosulfate	E G	E	E	E	C U	U	C	U G	G	
Soy Bean Oil Stannic Chloride	E	G	UE	E	E U	E U	E U	E U	E U	
Steam (up to 300°F) Stearic Acid	U G	U G	G	C E E	E C E	E C E	E	G C E	E	
Stoddard Solvent Styrene Sulfur	E U U	G U E	U U E	GE	E	EU	EG	E	E E E	
Sulfur Chloride Sulfur Dioxide	U		U G	E	GE	- G	G G	GE	U G	
Sulfur Trioxide Sulfuric Acid, over 10%	U U	UU	GU	E G	G C	C C	GU	GU	G C	
Sulfurous Acid	Č E	Č E	Ŭ E	Ŭ	Ŭ E	Č E	Č E	C C	Ŭ E	
Tar (Bituminous) Tartaric Acid	GE	Ū G	Ū G	E	Ē	G C	Ē	Ē	E	
Tertiary Butyl Alcohol Titanium Tetrachloride	G C	G U	G U	E	G E	G U	G G	G U	E G	
Toluene (Toluol) Trichlorethylene	U U	U U	U U	E	E E	E G	E	E	E E	
Tricresyl Phosphate Trianthanolamine	U U	U G	E	G U	E	Ū	C E	Ē	G E	
Tung Oil Turpentine	G G	GU	UU	E	E G	G G	E	E G	E G	
Varnish Vinyl Chloride	GU	UU	UU	E	E	G U	E	E	E	
Water (to +150°F) Water (+151°F to +200°F)	E	E	E	E	C C C	G G C	E	GG	E	
Water (+201°F to +250°F) Xylene	U U E	U U E	U U E	G E E	C E E	G E U	E E U	G E C	E E G	
Zinc Chloride Zinc Sulfate	E	E	E	E	U	C C	G	c	G	

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.





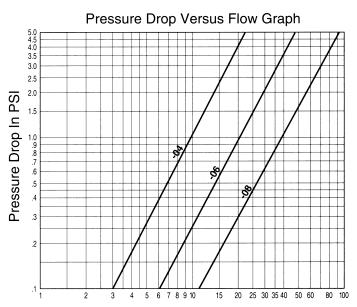
The FD40 Series offers a one-hand push-to-connect latch ideal for compressed air service. The female half features self-sealing poppet valves, preventing air loss while disconnected. Male half uses straight through design.

- Automatic sleeve for one-hand push-to-connect operation.
- Protective collar to prevent accidental snagging and disconnection.
- Meet dimensional requirements of MIL-C-4109 for industrial interchangeability.
- Swivels 360°, eliminating hose kinking.
- Ball latching mechanism.

\eroquip

- Standard seal material Buna-N.
- Standard body material Zinc plated steel.

Flow Data



Cubic Feet Per Minute Flow (At 100 PSI Inlet Pressure)

Phys	Physical Characteristics										
	Maximum Mininum Burst Pressure (psi) Operating										
Coupling Size	Pressure (psi)	Female Half Only	Connected	Vacuum (in./Hg.) Connected Only							
-04	300	3000	8000	28							
-06	300	3000	8000	28							
-08	300	2000	8000	28							



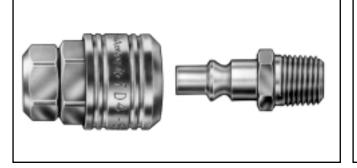
	Coupling	Thread	Dime	nsiona	I Data	Part Number	Lin
D40 Series	Size	Size(P)	Α	В	(1)	Buna-N	Rei
Female Half	-04	¹ / ₄ -18	1.88	1.00	.81	FD40-1000-04-04	1
Female Pipe/Valved	-04	³ /8-18	2.56	1.00	.94	FD40-1000-06-04	2
A	-06	1/4-18	2.63	1.16	.94	FD40-1000-04-06	3
	-06	³ /8-18	2.13	1.16	.94	FD40-1000-06-06	4
	-08	¹ /2 -14	2.38	1.28	1.06	FD40-1000-08-08	5
							6
							7
Ĺ).							8
Female Half	-04	1/4-18	2.63	1.00	.81	FD40-1001-04-04	9
Male Pipe/Valved	-04	³ /8-18	2.63	1.00	.81	FD40-1001-06-04	10
A	-06	³ /8-18	2.88	1.16	.94	FD40-1001-06-06	11
	-08	¹ /2 -14	3.50	1.28	.88	FD40-1001-08-08	12
							13
							14
							15
, Í							16
Male Half	-04	1/8-27	1.21		.56	FD40-1013-02-04	17
Female Pipe/Non-Valved	-04	1/4-18	1.62		.62	FD40-1013-04-04	18
	-04	³ /8-18	1.80		.88	FD40-1013-06-04	19
• A	-06	³ /8-18	1.90		.88	FD40-1013-06-06	20
	-08	¹ /2 -14	2.40		1.12	FD40-1013-08-08	21
							22
The second secon							23
	-						24
Male Half	-04	¹ /8-27	1.50		.50	FD40-1014-02-04	25
Male Pipe/Non-Valved	-04	¹ /4-18	1.75		.56	FD40-1014-04-04	26
	-04	³ /8-18	1.75		.69	FD40-1014-06-04	27
• A•	-06	¹ /4-18	1.88		.62	FD40-1014-04-06	28
	-06	³ /8-18	1.88		.69	FD40-1014-06-06	29
	-06	¹ /2 -14	2.13		.88	FD40-1014-08-06	30
P	-08	³ /8-18	2.18		.69	FD40-1014-06-08	31
λ <u>ι</u> /	-08	¹ /2 -14	2.44		.88	FD40-1014-08-08	32

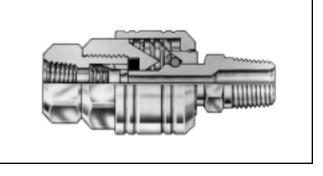
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FD41 Series/ARO 210 Interchange - Air







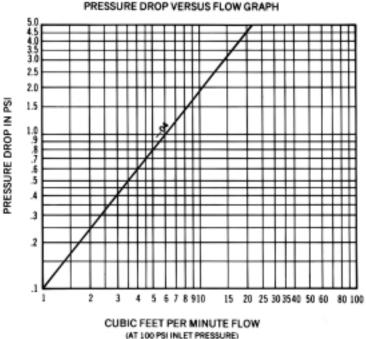
The FD41 interchanges with the ARO 210 Series for compressed air service, with a self-sealing female half and straight through male half.

- Designed to interchange with ARO 210 Series.
- Automatic sleeve for one hand push-to-connect operation.
- Swivels 360°, eliminating hose kinking.
- Designed to assure high flow with low pressure drop for peak tool performance.
- Standard seal material Buna-N.

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Standard body material – Zinc plated steel.

Flow Data



(AT 100 PST NLET

Physical Characteristics										
	Maximum Operating	Mininum Burst	Mininum Burst Pressure (psi)							
Coupling Size	Pressure (psi)	Female Half Only	Connected	Vacuum (in./Hg.) Connected Only						
-04	300	3000	8000	28						



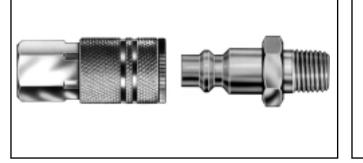
FD41 Series	Coupling	Thread	Dim	ensional l	Data	Part Number	Line
I D-I T Series	Size	Size (P)	Α	В	<u>(1)</u>	Buna-N	Ref.
Female Half	-04	¹ /8-27	2.15	1.12	.62	FD41-1000-02-04	1
Female Pipe/Valved	-04	¹ /4-18	1.62	1.12	.81	FD41-1000-04-04	2
•····- A							3
							4
							5
							6
							7
							8
Male Half	-04	¹ /4 -18	1.51	-	.62	FD41-1013-04-04	9
Female Pipe/Non-Valved							10
							11
A							12
							13
							14
۹ ل ۹ ۲							15
~							16
Male Half	-04	1/4-18	1.61	-	.56	FD41-1014-04-04	17
Male Pipe/Non-Valved							18
→							19
							20
							21
							22
d'							23
							24

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.



FD43 Series/Industrial Interchange—Air







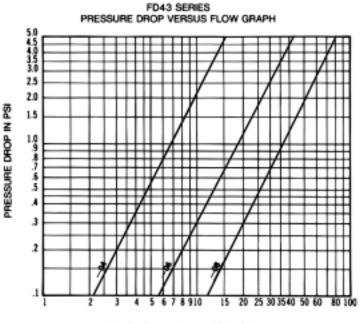
The FD43 Series is a manual retract-type ball latch industrial interchange coupling. Ideal for compressed air service, the FD43 uses FD40 male tips.

- Meets dimensional requirements of MIL-C-4109 specifications for industrial interchangeability.
- Protective collar to prevent accidental snagging and disconnection.
- Manual retract latch design allows quick and easy connection of hose lines.
- Swivels 360°, eliminating hose kinking.
- Standard seal material Neoprene.

Neroquip

• Standard body material – Zinc plated steel.

Flow Data



(AT 100 PSI INLET PRESSURE)

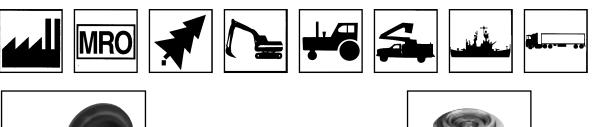
Physical Characteristics											
Coupling	Maximum Operating	Minimum Burs	Vacuum								
Dash Size	Pressure (psi)	Female Half Only	Connected	(in./Hg.) Connected Only							
-04	300	3000	8000	Not Rated							
-06	300	3000	8000	Not Rated							
-08	300	2000	8000	Not Rated							



D43 Series	Coupling		Hose	-	nsiona	l Data	Part Number	Lin
	Síze	Size(P)	I.D.	Α	В	$\sqrt{1}$	Neoprene	Re
Female Half	-04	¹ /8-27		1.88	.88	.75	FD43-1001-02-04	1
Female Pipe/Valved	-04	¹ /4-18		2.09	.88	.75	FD43-1001-04-04	2
→ A►	-04	³ /8-18		2.16	.88	.81	FD43–1001–06–04	3
	-06	¹ /4 -1 8		2.38	1.06	.88	FD43-1001-04-06	4
	-06	³ /8-18		2.38	1.06	.88	FD43-1001-06-06	5
	-06	¹ /2 -14		2.53	1.06	1.00	FD43-1001-08-06	6
£D [*]	-08	¹ /2 -14		3.06	1.19	1.00	FD43-1001-08-08	7
Female Half	-04	¹ /8-27		2.19	.88	.75	FD43-1011-02-04	8
Male Pipe/Valved	-04	¹ /4-18		2.28	.88	.75	FD43-1011-04-04	ç
A	-04	³ /8-18		2.34	.88	.75	FD43-1011-06-04	1
	-06	¹ /4-18		2.41	1.06	.88	FD43-1011-04-06	1
A B	-06	³ /8-18		2.44	1.06	.88	FD43-1011-06-06	1:
	-06	¹ /2 -14		2.56	1.06	.88	FD43-1011-08-06	1
	-08	¹ /2 -14		3.09	1.19	1.00	FD43-1011-08-08	1
Female Half	-04		1/4	2.78	.88	.75	FD43-1031-04-04	1
OCKETLESS [™] Hose Barb/Valved	-04		³ /8	2.78	.88	.75	FD43-1031-06-04	1
A								1
								1
								1
								2
<u>,</u>								2
Male Half	-04	¹ /8-27		1.21		.56	FD40-1013-02-04	2
Female Pipe/Non-Valved	-04	¹ /4-18		1.62		.62	FD40-1013-04-04	2
⊸ A►	-04	³ /8-18		1.80		.88	FD40-1013-06-04	2
	-06	³ /8-18		1.90		.88	FD40-1013-06-06	2
	-08	¹ /2-14		2.40		1.12	FD40-1013-08-08	2
								2
Ť.								2
Male Half	-04	1/8-27		1.50		.50	FD40-1014-02-04	2
Male Pipe/Non-Valved	-04	¹ /4-18		1.75		.56	FD40-1014-04-04	3
A	-04	³ /8-18		1.75		.69	FD40–1014–06–04	3
	-06	1/4-18		1.88		.62	FD40-1014-04-06	3
	-06	³ /8-18		1.88		.69	FD40-1014-06-06	3
	-06	¹ /2 -14		2.13		.88	FD40–1014–08–06	3
	-08	³ /8-18		2.18		.69	FD40–1014–06–08	3
	-08	1/2-14		2.44	1	.88	FD40–1014–08–08	3



FD14 Series/Drain Coupling





Male Half with Rubber Molded Cap



Female Half

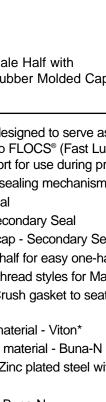
The FD14 Drain coupling is designed to serve as a drain port for use with systems such as the Aeroquip FLOCS® (Fast Lube Oil Change System) as well as providing a purging port for use during prefill operations.

- Low-Profile, with multiple sealing mechanisms •
 - O-ring primary seal •
 - Metal-to-metal Secondary Seal ٠
 - Rubber protective cap Secondary Seal •
- Push-To-Connect female half for easy one-hand operation
- Broad range of standard thread styles for Male Half
 - · Utilizes a Copper-Crush gasket to seat against the port face.
- Standard male half seal material Viton*
- Standard female half seal material Buna-N
- Standard body material Zinc plated steel with zinc die-cast valve •
- Rubber molded cap
 - Standard material Buna-N •

Physical Characteristics										
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)						
-06	50	200	28	3						

*Viton is a DuPont trademark.

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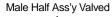


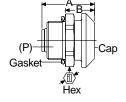


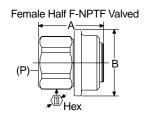
Aeroquip FD14 Drain Coupling

Providing direct access for fast oil changes.

The FLOCS[®] Direct Access Conversion Kit uses the Aeroquip-developed FD14 Drain Coupling as an alternative to the standard remote hose kit. This coupling design permits easy, one-hand connection and disconnection of the evacuation unit's hose.







Swivel Joint

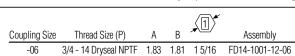
Cap Molded Rubber

Coupling Cize				1	Torque	(Includes	Gasket	
Coupling Size	Thread Size (P)	А	В		(FtLbs.)	Gasket & Cap)	(Copper-Crush)	Cap (Buna-N)
-06	1/2 - 20 UNF - 2A	1.33	.56	15/16	20-24*	FD14-1002-01-06	FD14-1206-01	FD14-1204-06
-06	M18 x 1.5 6g	1.33	.56	1 1/4	20-40*	FD14-1002-02-06	FD14-1206-04	FD14-1204-06
-06	M14 x 1.25 6g	1.33	.56	15/16	20-24*	FD14-1002-03-06	FD14-1206-02	FD14-1204-06
-06	1 1/4 - 18 UNEF - 2A	1.37	.56	1 1/2	30-60*	FD14-1002-05-06	FD14-1206-11	FD14-1204-06
-06	1 -18 UNS - 2A	1.37	.56	1 1/4	30-60*	FD14-1002-06-06	FD14-1206-07	FD14-1204-06
-06	7/8 - 18 UNS - 2A	1.37	.56	1 1/4	30-60*	FD14-1002-07-06	FD14-1206-06	FD14-1204-06
-06	5/8 - 18 UNF - 2A	1.33	.56	15/16	20-40*	FD14-1002-08-06	FD14-1206-03	FD14-1204-06
-06	3/4 - 16 UNF - 2A	1.37	.56	1 1/4	30-50*	FD14-1002-09-06	FD14-1206-04	FD14-1204-06
-06	7/8 - 14 UNF - 2A	1.37	.56	1 1/4	30-60*	FD14-1002-10-06	FD14-1206-06	FD14-1204-06
-06	M24x2 6g	1.37	.56	1 1/4	30-60*	FD14-1002-11-06	FD14-1206-07	FD14-1204-06
-06	9/16 - 18 UNF - 2A	1.33	.56	15/16	20-40*	FD14-1002-12-06	FD14-1206-02	FD14-1204-06
-06	1 1/8 - 12 UNF - 2A	1.37	.56	1 1/2	30-60*	FD14-1002-14-06	FD14-1206-09	FD14-1204-06
-06	M20 x 1.5 6g	1.37	.56	1 1/4	30-60*	FD14-1002-16-06	FD14-1206-05	FD14-1204-06
-06	M25 x 1.5 6g	1.37	.56	1 1/4	30-60*	FD14-1002-17-06	FD14-1206-07	FD14-1204-06
-06	M22 x 1.5 6g	1.37	.56	1 1/4	30-60*	FD14-1002-18-06	FD14-1206-06	FD14-1204-06
-06	M24 x 1.5 6g	1.37	.56	1 1/4	30-60*	FD14-1002-19-06	FD14-1206-07	FD14-1204-06
-06	1 1/16 - 12 UN - 2A	1.37	.56	1 1/2	30-60*	FD14-1002-20-06	FD14-1206-08	FD14-1204-06
-06	M30 x 1.5 6g	1.37	.56	1 1/2	30-60*	FD14-1002-21-06	FD14-1206-10	FD14-1204-06
-06	1/2 - 14 UNS - 2A	1.33	.56	15/16	20-24*	FD14-1002-22-06	FD14-1206-01	FD14-1204-06
-06	M12 x 1.5 6g	1.33	.56	15/16	20-24*	FD14-1002-23-06	FD14-1206-01	FD14-1204-06
-06	M14 x 1.5 6g	1.33	.56	15/16	20-24*	FD14-1002-24-06	FD14-1206-02	FD14-1204-06
-06	M12 x 1.75 6g	1.33	.56	15/16	20-24*	FD14-1002-25-06	FD14-1206-01	FD14-1204-06
-06	3/4 - 14 Dryseal NPTF	1.52	.56	1 1/4		FD14-1002-26-06	None Needed	FD14-1204-06

Ass'y

Assembly

* A CAUTION: Failure to meet minimum assembly torque could result in fluid leakage.



Cap (Buna-N)

FD14-1204-06

Assembly FD14-1004-12-12

В

1.400

Thread Size (P)

3/4 - 14 Dryseal NPTF

А

0.519

FLOCS System Components & Accessories



- FLOCS Oil Thief Sampling System



 FLOCS 15 Direct Access Oil Evacuation Unit (Electric)



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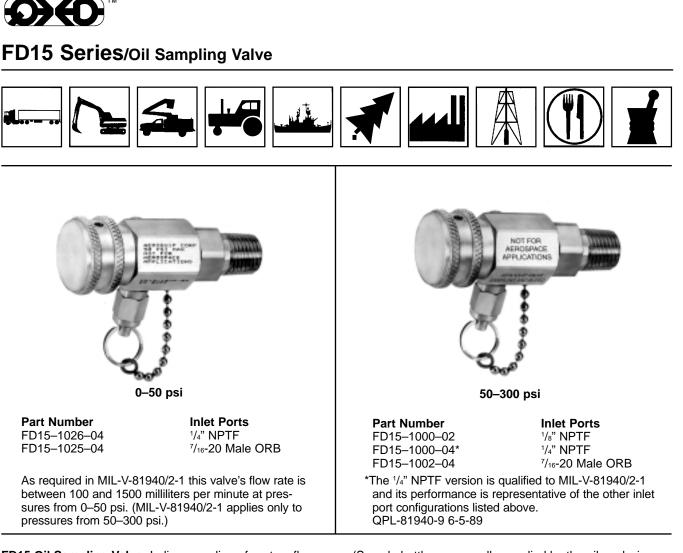
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Coupling Size

-06

Coupling Size

-06



FD15 Oil Sampling Valve: In-line sampling of system fluids is made without system shutdown, usually in less than one minute, and without fluid contamination.

Application: Engine oil, lubricating oil, transmission fluid and hydraulic fluids in mobile construction equipment, military vehicles, trucks and stationary equipment.

For best results, Aeroquip FD15 Oil Sampling Valves should be installed in dynamic fluid lines in low pressure and return lines. If only one sampling point can be chosen, it should be in the return line, upstream of any return line filter. This will insure a representative sample of all components in the fluid system for their present condition.

Operation: Remove metal dustcover on discharge port. Discharge approximately 200 ml of oil to flush valve by turning knurled knob ¹/₄ turn to the right. Dispose of this sample in the appropriate manner. Locate clean oil sample bottle under discharge port.

eroquip

(Sample bottles are usually supplied by the oil analysis lab.) Turn knurled knob ^{1/4} turn to the right until bottle is filled to the desired level. The knob can be backed off to throttle the rate of flow. When bottle is filled let go of the knurled knob, the valve will close automatically. Replace metal dustcover wrench tight.

Construction: Corrosion resistant plated steel with brass internal components and Viton* seals.

Operating Temperature Range: -65°F to +275°F (-53°C to +135°C)

Minimum Burst Pressure: 1200 psi

Minimum Particle Restriction: 500 microns

Maximum Torque to Operate: 10 in. lbs.

Note: This valve is not intended for aerospace applications.

*Viton is a trademark of DuPont.



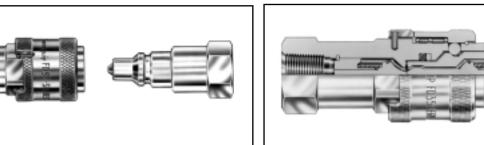
				Dir	noncio	nal Dat	2		Part Number	
FD15 Series	Coupling Size	Thread Size (P)	Α	В	C		.a 	<u>,3</u>	Viton*	Line Ref.
	-	¹ /8-27	2.42	1.00	1.30	.69	<u>ک</u> ے/ .38	<u>-</u>	FD15–1000–02	1
Male Pipe Thread 50–300 psi	_	¹ / ₄ -18	2.42	1.00	1.30	.69	.38	_	FD15-1000-02	2
A		74-10	2.50	1.00	1.50	.09	.30	-	FD15-1000-04	
										3
										4
										5
										6
										7
										8
										_
· · · · · · · · · · · · · · · · · · ·						A ⁻				
Male SAE O-Ring Thread 50–300 psi	_	7/16-20	2.79	1.00	1.30	.69	.38	.56	FD15-1002-04	9
A										10
										11
										12
										13
										14
										15
										16
Male Pipe Thread	_	¹ /4-18	2.56	1.00	1.30	.69	.38	-	FD15-1026-04	17
0–50 psi										18
										19
										20
										21
										22
										23
										24
H DO										
Male SAE O-Ring Thread	_	7/16-20	2.79	1.00	1.30	.69	.38	.56	FD15-1025-04	25
0–50 psi										26
								 		27
										28
								 		29
								 		30
										31
<u>ک</u> (ً) ک										32
A 2										

*Viton is a DuPont trademark.



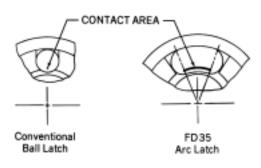
FD35 Series/Arc Latch™ for 10,000 psi High Pressure Applications





The FD35 Series Arc Latch[™] design has a greater surface contact area for long surface life in rugged high pressure applications. The maximum operating pressure is 10,000 psi.

- Safety sleeve lock prevents accidental disconnection.
- Heavy duty back-up ring prevents O-ring extrusion.
- Heat treated and plated steel for greater wear and corrosion resistance.
- Self-sealing poppet valves provide excellent high and low pressure sealing.
- Standard seal material Viton*.
- Standard body material Zinc plated steel.

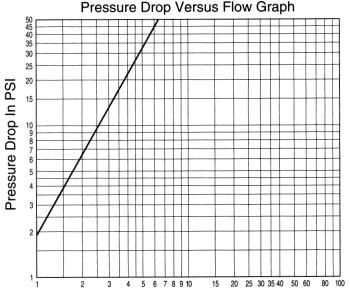


Physical Characteristics Maximum Minimum Operating Burst Rated Air Fluid Coupling Pressure Vacuum Flow Inclusion Loss Pressure Size (in./Hg.) (psi) (psi) (gpm) (cc. max.) (cc. max.) 0.50 -06 10,000 40,000 28 2 0.50

*Viton is a DuPont trademark.

eroquip

Flow Data



Gallons Per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil At 100° F.)



FD35 Series	Coupling	Thread	Dimer	nsional		Part Number	Line
FD35 Series	Size	Size (P)	Α	В	$\langle 1 \rangle$	Viton*	Ref.
Male Half	-06	³ /8-18	2.05		0.94	FD35-1002-06-06	1
Female Pipe/Valved							2
-							3
• A							4
							5
							6
							7
Ĵ.							8
	-06	³ /8-18	2.56	1.27	0.94	FD35-1001-06-06	9
Female Half Female Pipe/Valved	-00	-/8-10	2.00	1.27	0.94	FD35-1001-08-06	
							10
A							11
							12
							13
							14
P (1)							15
							16
Complete Coupling	-06	³ /8-18	3.53			FD35-1000-06-06	17
Female Pipe/Valved							18
							19
							20
							21
							22
							23
							24
Male Half	-06	⁹ / ₁₆ -18	2.05		0.94	FD35-1008-06-06	25
Female SAE O-Ring/Valved		710 10	2.00		0.04		26
· · · · · · · · · · · · · · · · · · ·							20
← A							27
							29
							30
<u> </u>							31
	<u> </u>						32
Female Half	-06	⁹ / ₁₆ -18	2.56	1.27	0.94	FD35–1007–06–06	33
Female SAE O-Ring/Valved							34
							35
							36
							37
							38
							39
							40

*Viton is a DuPont trademark.



Aeroquip



Coupling	Thread	Dimen	siona	l Data	Part Number	Line
Size	Size(P)	Α	В	<u>(1)</u>	Viton*	Ref.
-06	⁹ / ₁₆ -18	3.53			FD35-1006-06-06	1
						2
						3
						4
						5
						6
						7
						8
-06	³ /8-18	2.05		0.94	FD35-1043-06-06	9
						10
						11
						12
						13
						14
						15
						16
-06	⁹ / ₁₆ -18	2.12		0.94	FD35-1044-06-06	17
						18
						19
						20
						21
						22
						23
						24
						25
-06	Male Val	lvina			FF10173-06	26
	-	-				27
		-	Arcl	atch		28
						29
-06	Fits Male	and Fe	emale	Halves	FD35-1042-06	30
			analo		. 200 1012 00	31
						31
						33
						34
						35
						36
						30
	-06	Size Size(P) -06 ⁹ /16-18 -06 ³ /8-18 -06 ³ /8-18 -06 ⁹ /16-18 -06 ⁹ /16-18 -06 ⁹ /16-18 -06 Female -06 Female	Size Size(P) A -06 9/16-18 3.53 -06 9/16-18 3.53 -06 3/8-18 2.05 -06 3/8-18 2.05 -06 9/16-18 2.12 -06 9/16-18 2.12 -06 9/16-18 2.12 -06 9/16-18 2.12 -06 9/16-18 2.12 -06 9/16-18 2.12 -06 Female Valving -06 -06 Female Valving -06 -06 Female Locking -06	Size Size(P) A B -06 9/18-18 3.53	Size Size(P) A B I -06 9/16-18 3.53 - - -01 - - - - - -06 9/16-18 3.53 - - - -06 9/16-18 2.01 - - - -06 3/8-18 2.05 0.94 - - -06 3/8-18 2.05 0.94 - - -06 3/8-18 2.05 0.94 - - -06 9/16-18 2.12 0.94 - - -06 9/16-18 2.12 0.94 - - -06 9/16-18 2.12 0.94 - - -06 9/16-18 2.12 0.94 - - -06 9/16-18 2.12 0.94 - - -06 Male Valving - - - - -06 Female Valving - - - - -06 Female Locking Arc Latch	Size Size(P) A B I Viton* -06 %to-18 3.53 FD35-1006-06-06 FD35-1006-06-06 -06 %to-18 2.05 0.94 FD35-1043-06-06 -06 %to-18 2.05 0.94 FD35-1043-06-06 -06 %to-18 2.05 0.94 FD35-1043-06-06 -06 %to-18 2.12 0.94 FD35-1044-06-06 -06 Male Valvin

*Viton is a DuPont trademark.

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Air

Inclusion

.62

(cc. max.) (cc. max.)

Fliud

Loss

.80

Rated

Flow

(gpm)

3

Vacuum

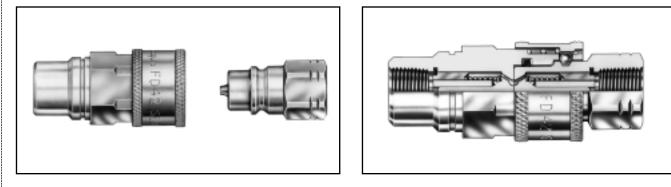
(in./Hg.)

28



FD42 Series/Pioneer 4000 Interchange





The FD42 Series coupling is designed as a Pioneer 4000 interchange to accommodate high surge flows typically found in snow plow applications. The maximum operating pressure is 3,000 psi.

- PTFE back up ring in female half improves impulse life.
- Self-sealing poppet valve design provides excellent high and low pressure sealing.
- PUSH-PULL[™] ball latch design allows quick and easy connection and disconnection of hose lines.
- Interchanges with Pioneer 4000-2 and Safeway S20-A.
- Retaining groove on female half for bulkhead mounting.
- Male half can be bulkhead mounted with optional adapter.
- Standard seal material Buna-N.

Physical Characteristics

Mininum

Burst

Pressure

12,000

(psi)

Maximum

Operating

Pressure

(psi)

3000

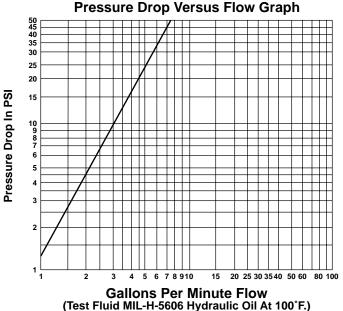
Coupling

Size

-04

Standard body material - Zinc plated steel with zinc poppet guides.

Flow Data





ED42 Series	Coupling	Thread		Di	mensi	ional D	ata		Part Number	Line
FD42 Series	Size	Size (P)	Α	В	С	D	Е	$\sqrt{1}$	Buna-N	Ref.
Male Half	-04	¹ /4-18	1.34					.75	FD42-1002-04-04	1
Female Pipe/Valved										2
A										3
										4
										5
										6
										8
Female Half	-04	¹ /4-18	2.04	1.06	.87	.05	.10	.88	FD42-1001-04-04	9
Female Pipe/Valved										10
←A►										11
										12
Ċ,										13
										14
										15
Complete Coupling	0.1	1/ 40	0.00						ED 40 4000 04 04	16
Complete Coupling Female Pipe/Valved	-04	¹ /4-18	2.68						FD42-1000-04-04	17
										19
										20
										21
										22
										23
										24
Male Half Female SAE O-Ring/Valved	-04	⁹ / ₁₆ -18	1.63					.81	FD42-1010-06-04	25
Temale SAL O-King/Valved										26
►A►										27
										28 29
										30
										31
										32
Female Half	-04	⁹ /16 -18	2.13	1.06	.87	.05	.10	.88	FD42-1008-06-04	33
Female SAE O-Ring/Valved										34
← A ─ ─ ►										35
┰╌┥										36
Ċ										37
										38
										39 40
Complete Coupling	-04	⁹ /16 -18	2.97						FD42-1006-06-04	40
Female SAE O-Ring/Valved		, 10	,						1000 00 04	42
←A										43
										44
										45
										46
										47

Aeroquip



FD42 Accessories	Coupling	Thread		D	imensi	ional [Data		Part Number	Line
I D42 Accessories	Size	Size (P)	Α	В	С	D	Е	$\sqrt{1}$	Buna-N	Ref.
Bulkhead Adapter	-04	¹ /4-18	1.39	.87	.08			.88	FF1607–0404S	1
h										2
										3
										4
										5
- Part Phase										6
-P-Inned C-4 == LD										7
										8
Dust Cap/Plug	-04								FD48–1042–04	9
(Fits Both Halves)										10
										11
										12
										13
0										14
•										15
										16

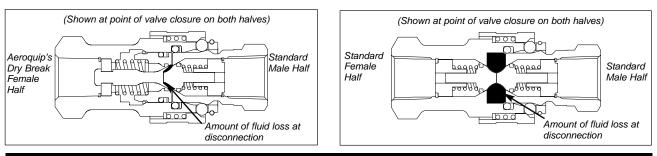




The Aeroquip DryBreak Difference

DryBreak/Industrial Interchange Coupling

Industry Standard Opposed Poppet Style



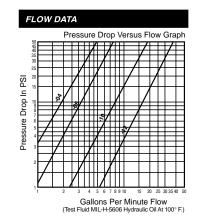
DryBreak Valves

DryBreak Valve for the 5600 Series

- Mates with all standard poppet valved style ISO 7241/1 Series A male halves.
- Economical Patented concave stem valve in the female coupling half that provides disconnecting fluid loss rates comparable with more expensive flush faced coupling styles.
- Standard Seal Materials Buna-N, Viton*, and EPR available on request.
- Standard body material Zinc plated steel.

Physical Characteristics

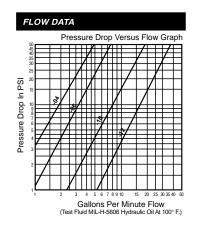
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max)
-06	4,000	12,000	28	6	.36	.05
-10	4,000	12,000	28	12	1.14	.08
-12	4,000	12,000	15	28	1.19	.23



DryBreak Valve for the FD45 Series

- Mates with all standard poppet valved style ISO 7241/1 Series B male halves.
- Economical Patented concave stem valve in the female coupling half that provides disconnecting fluid loss rates comparable with more expensive flush faced coupling styles.
- Standard Seal Materials Buna-N, Viton*, and EPR available on request.
- Standard body material Zinc plated steel.

	Phy	sical C	Charao	cteri	stics	
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max)
-04	4,000	15,000	28	3	.25	.02
-06	4,000	12,000	28	6	.89	.05
-10	4,000	12,000	28	12	1.12	.08
-12	4,000	12,000	15	28	2.53	.23



*Viton is a DuPont trademark.

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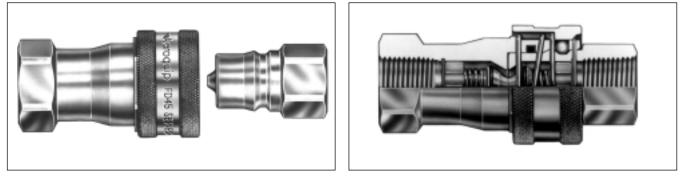
	Coupling	Thread		Dimensional D	ata		Line
	Size	Size (P)	Α	B		Buna-N	Ref.
5600 SERIES							
Standard Male Half	-06	³/8-18	1.40		.88	5602-6-6S	1
Female Pipe/Valved	-10	¹ /2 -14	1.89		1.06	5602-8-10S	2
	-12	³ / ₄ -14	2.28		1.38	5602-12-12S1	3
							4
The second secon							5
Female Half Female Pipe/	-06	³ /8-18	2.23	1.23	1.00	FD56-4001-06-06	6
DryBreak Valving	-10	¹ /2 -14	2.70	1.50	1.19	FD56-4001-08-10	7
ISO-7241-A	-12	³ / ₄ -14	3.29	1.81	1.50	FD56-4001-12-12	8
							9
							10
							11
							12
Standard Male Half	-06	⁹ / ₁₆ -18	1.50		.88	5610-6-6S	13
Female SAE O-Ring/ Valved	-10	³ /4-16	2.03		1.06	5610-8-10S	14
	-12	1 ¹ /16-12	2.55		1.38	5610-12-12S	15
							16
"							17
TT T							18
Female Half	-06	⁹ /16 -18	2.23	1.23	1.00	FD56-4101-06-06	19
Female SAE O-Ring/	-10	³ / ₄ -16	2.70	1.50	1.19	FD56-4101-08-10	20
DryBreak Valving	-12	1 ¹ / ₁₆ -12	3.33	1.81	1.50	FD56-4101-12-12	21
							22
							23
							24
FD45 SERIES				1			
Standard Male Half	-04	1/4-18	1.53		.75	FD45-1002-04-04	25
Female Pipe/Valved	-06	³ /8-18	1.69		.88	FD45-1002-06-06	26
A	-10	1/2-14	1.96		1.06	FD45-1002-08-10	27
	-12	³ /4-14	2.41		1.31	FD45-1002-12-12	28
							29
D							30
Female Half	-04	1/4-18	2.35	1.10	.81	FD45-4001-04-04	31
Female Pipe/ DryBreak Valving	-06	³ /8-18	2.65	1.36	1.06	FD45-4001-06-06	32
ISO-7241-B	-10	1/2-14	3.02	1.67	1.31	FD45-4001-08-10	33
A	-12	³ /4-14	3.44	2.04	1.62	FD45-4001-12-12	34
				-			35
							36
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FD45 Series/Industrial Interchange Series B ... (Steel)

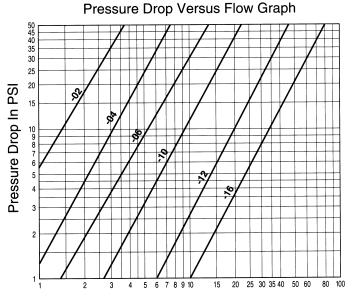




The FD45 Series steel is an industrial interchange popular in North America. Features rugged ball latch mechanism with automatic self-sealing poppet valves.

- Industrial interchange coupling conforming dimensionally to ISO standard 7241/1 Series B.
- *PUSH-PULL*[™] ball latch design allows quick and easy connection and disconnection of hose lines.
- Self-sealing poppet valve design provides excellent high and low pressure sealing.
- Standard seal material Buna-N, EPR and Viton.*
- Standard body material Zinc plated steel. (Brass poppet guide in –02 size.)

Flow Data



Gallons Per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil At 100° F.)

Physical Characteristics Maximum Deperating Pressure Pressure Vacuum Flow Inclusion

Coupling Size	Operating Pressure (psi)	Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max.)
-02	4,500	13,500	28	1	.50	.50
-04	5,000	15,000	28	3	.50	.50
-06	4,000	12,000	28	6	2.5	1.3
-10	4,000	12,000	28	12	4.0	2.8
-12	4,000	12,000	28	28	11.0	8.2
-16	4,000	12,000	28	50	18.0	16.0

*Viton is a DuPont trademark.



FD45 Steel	Coupling	Thread		ensio Data	nal	P	art Number		Li
FD45 Steel	Size	Size (P)	Α	В	$\sqrt{1}$	Buna-N	Viton*	EPR	R
Male Half	-02	1/8-27	1.28		.56	FD45-1002-02-02	FD45-1071-02-02	FD45-1064-02-02	
Female Pipe/Valved	-02	1/4-18	1.20		.50	FD45-1002-02-02	FD45-1071-02-02 FD45-1071-04-04	FD45-1064-04-04	+
	-				-				+
A	-06	³ /8-18	1.66		.88	FD45-1002-06-06	FD45-1071-06-06	FD45-1064-06-06	+
	-10 -12	¹ / ₂ -14 ³ / ₄ -14	1.93 2.26		1.06 1.31	FD45-1002-08-10 FD45-1002-12-12	FD45-1071-08-10 FD45-1071-12-12	FD45-1064-08-10	+
	-12	1-11 ¹ / ₂	2.20		1.62			FD45-1064-12-12 FD45-1064-16-16	+
ŢŢ, P	-10	1-11/2	2.12		1.02	FD45-1002-16-16	FD45-1071-16-16	FD45-1004-10-10	+
									-
	00	1/ 07	1.01	06	75	FD45 1002 02 02	ED 45 4070 02 02	ED46 4066 02 02	-
Female Half Female Pipe/Valved	-02	1/8-27	1.81	.96	.75	FD45-1003-02-02	FD45-1070-02-02	FD45-1065-02-02	+
	-04	¹ /4-18	2.22	1.13	.81	FD45-1003-04-04	FD45-1070-04-04	FD45-1065-04-04	+
	-06	³ /8-18	2.45	1.38	1.06	FD45-1003-06-06	FD45-1070-06-06	FD45-1065-06-06	+
	-10	¹ /2-14	2.86		1.31	FD45-1003-08-10	FD45-1070-08-10	FD45-1065-08-10	+
В	-12	³ /4-14	3.40		1.62	FD45-1003-12-12	FD45-1070-12-12	FD45-1065-12-12	+
	-16	1-11 ¹ /2	4.02	2.44	2.00	FD45-1003-16-16	FD45-1070-16-16	FD45-1065-16-16	+
р <u>, , , , , , , , , , , , , , , , , , ,</u>									+
		1/ 07	0.01			ED45 4000 00 00		ED45 4000 00 00	-
Complete Coupling Female Pipe/Valved	-02	1/8-27	2.31			FD45-1000-02-02	FD45-1072-02-02	FD45-1063-02-02	+
	-04	1/4-18	2.74			FD45-1000-04-04	FD45-1072-04-04	FD45-1063-04-04	+
A	-06	³ /8-18	3.04			FD45-1000-06-06	FD45-1072-06-06	FD45-1063-06-06	+
	-10	1/2-14	3.54			FD45-1000-08-10	FD45-1072-08-10	FD45-1063-08-10	+
	-12	3/4-14	4.02			FD45-1000-12-12	FD45-1072-12-12	FD45-1063-12-12	+
	-16	1-11 ¹ / ₂	4.88			FD45-1000-16-16	FD45-1072-16-16	FD45-1063-16-16	
Male Half Female Pipe/Non-Valved	-02	1/8-27	1.20		.56	FD45-1061-02-02	FD45-1061-02-02	FD45-1061-02-02	+
	-04	1/4-18	1.37		.75	FD45-1061-04-04	FD45-1061-04-04	FD45-1061-04-04	+
	-06	³ /8-18	1.50		.88	FD45-1061-06-06	FD45-1061-06-06	FD45-1061-06-06	+
	-10	1/2-14	1.76		1.06	FD45-1061-08-10	FD45-1061-08-10	FD45-1061-08-10	+
	-12	3/4-14	2.00		1.31	FD45-1061-12-12	FD45-1061-12-12	FD45-1061-12-12	+
(2) P	-16	1-11 ¹ /2	2.43		1.62	FD45-1061-16-16	FD45-1061-16-16	FD45-1061-16-16	
Will not operate with valved coupling halves.									
No valve actuator.									
Female Half Female Pipe/Non-Valved	-02	1/8-27	1.81	.96	.75	FD45-1047-02-02	FD45-1172-02-02	FD45-1207-02-02	+
	-04	¹ /4-18	2.22		.81	FD45-1047-04-04	FD45-1172-04-04	FD45-1207-04-04	+
	-06	³ /8-18	2.45	1.38	1.06	FD45-1047-06-06	FD45-1172-06-06	FD45-1207-06-06	
╞═╕Ҁ┈┤╷╢║║╿	-10	1/2-14	2.86	1.69	1.31	FD45-1047-08-10	FD45-1172-08-10	FD45-1207-08-10	+
	-12	3/4-14	3.40		1.62	FD45-1047-12-12	FD45-1172-12-12	FD45-1207-12-12	
	-16	1-11 ¹ /2	4.02	2.44	2.00	FD45-1047-16-16	FD45-1172-16-16	FD45-1207-16-16	
P XI/ Will not operate with valved coupling halves.									
No valve actuator.									
Repair Kit									
Each kit will repair one male or female half.	-02					FF013-02†	FF014-02†	FF015-02†	
	-04					FF013-04	FF014–04	FF015–04	
	-06					FF013–06	FF014–06	FF015–06	
	-10					FF013–10	FF014–10	FF015–10	
	-12					FF013–12	FF014–12	FF015–12	
	-16					FF013–16	FF014–16	FF015–16	1
	-10					FF013-10	11014 10	11010 10	

*Viton is a DuPont trademark.

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.



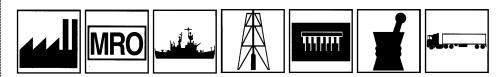
Θ Part Number Coupling Thread Dimensional Data Line FD45 Steel Size Size (P) Α в $\langle 1 \rangle$ Buna-N Viton* EPR Ref FD45-1206-02-02 **Complete Coupling** -02 1/8-27 2.31 FD45-1044-02-02 FD45-1173-02-02 1 Female Pipe/Non-Valved -04 1/4-18 2 74 FD45-1044-04-04 FD45-1206-04-04 2 FD45-1173-04-04 -06 ³/8-18 3.04 FD45-1044-06-06 FD45-1173-06-06 FD45-1206-06-06 3 -10 ¹/₂-14 3.54 FD45-1044-08-10 FD45-1173-08-10 FD45-1206-08-10 4 -12 3/4-14 4.02 FD45-1044-12-12 FD45-1173-12-12 FD45-1206-12-12 5 1-11¹/₂ 4.88 FD45-1044-16-16 6 -16 FD45-1173-16-16 FD45-1206-16-16 7 8 -02 1/8-27 1.28 .56 FD45-1046-02-02 FD45-1046-02-02 FD45-1046-02-02 9 Male Half Female Pipe/Pusher Style 1.50 -04 1/4-18 .75 FD45-1046-04-04 FD45-1046-04-04 FD45-1046-04-04 10 **V**alving -06 ³/8-18 1.66 .88 FD45-1046-06-06 FD45-1046-06-06 FD45-1046-06-06 11 -10 1/2-14 1.93 1.06 FD45-1046-08-10 FD45-1046-08-10 FD45-1046-08-10 12 3/4-14 1.31 FD45-1046-12-12 FD45-1046-12-12 -12 2.26 FD45-1046-12-12 13 -16 1-11¹/2 2.72 1.62 FD45-1046-16-16 FD45-1046-16-16 FD45-1046-16-16 14 Æ 15 Incorporates a pusher device to 16 open mating valved coupling halves -02 1/8-27 1.81 .96 .75 FD45-1045-02-02 FD45-1228-02-02 FD45-1229-02-02 17 Female Half Female Pipe/Pusher Style -04 ¹/₄-18 2.22 1.13 .81 FD45-1045-04-04 FD45-1228-04-04 FD45-1229-04-04 18 Valving -06 3/8-18 2.45 1.38 1.06 FD45-1045-06-06 FD45-1228-06-06 FD45-1229-06-06 19 -10 ¹/₂-14 2.86 1.69 1.31 FD45-1045-08-10 FD45-1228-08-10 FD45-1229-08-10 20 -12 3/4-14 3.40 2.06 1.62 FD45-1045-12-12 FD45-1228-12-12 FD45-1229-12-12 21 -16 1-11¹/₂ 4.02 2.44 2.00 FD45-1045-16-16 FD45-1228-16-16 FD45-1229-16-16 22 23 Incorporates a pusher device to open mating valved coupling halves. 24 Repair Kit 25 Each kit will repair one male or female -02 FF013-02⁺ FF014-02[†] FF015-02⁺ 26 half FF013-04 FF014-04 27 -04 FF015-04 -06 FF013-06 FF014-06 FF015-06 28 -10 FF013-10 FF014-10 FF015-10 29 -12 FF014-12 FF013-12 FF015–12 30 †The -02 coupling size valving is not repairable. This size repair kit con--16 FF013-16 FF014-16 FF015-16 31 tains an interface seal and back-up ring. 32 Accessories 33 FD45-1040-02 -02 34 Dust Cap -04 FD45-1040-04 35 -06 FD45-1040-06 36 -10 FD45-1040-10 37 -12 FD45-1040-12 38 -16 FD45-1040-16 39 40 -02 FD45-1041-02 41 Dust Plug -04 FD45-1041-04 42 -06 FD45-1041-06 43 44 -10 FD45-1041-10 -12 FD45-1041-12 45 -16 FD45-1041-16 46 47

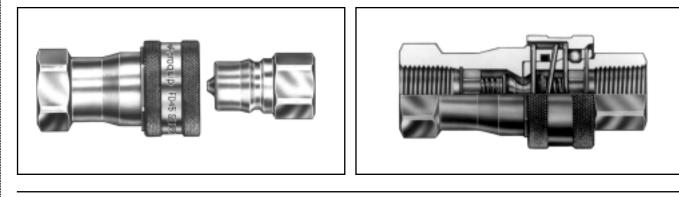
*Viton is a DuPont trademark.

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FD45 Series/Industrial Interchange Series B . . . (Brass)



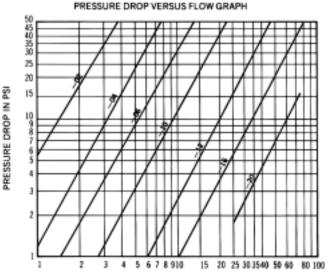


The FD45 Series brass industrial interchange coupling offers corrosion resistance where steel couplings are unacceptable. This general purpose coupling uses a *PUSH-PULL*TM latch mechanism.

- Dual interface O-Rings in the female half provide redundant sealing while connected.
- Brass construction with stainless steel springs for greater corrosion resistance and fluid compatibility.
- Industrial interchange coupling conforming dimensionally to ISO standard 7241/1 Series B.
- *PUSH-PULL*[™] ball latch design allows quick and easy connection and disconnection of hose lines.
- Self-sealing poppet valves provide excellent high and low pressure sealing.
- Standard seal material Buna-N, EPR and Viton*.
- Standard body material Brass with stainless steel springs and balls.

Physical Characteristics

Flow Data



GALLONS PER MINUTE FLOW (TEST FLUID MIL-H-5606 HYDRAULIC OL AT 100" F.)

		Minimum B	urst Pressure				
Coupling Size			Disconnected (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max)
-02	1,000	11,000	12,000	28	1	.50	.50
-04	1,000	18,000	14,000	28	3	.50	.50
-06	1,000	12,000	9,000	28	6	2.5	1.3
-10	1,000	12,000	6,500	28	12	4.0	2.8
-12	1,000	10,000	10,000	28	28	11.0	8.2
-16	1,000	8,500	11,000	28	50	18.0	16.0
-20	1,000	6,000	6,000	28	75	30.0	45.0

*Viton is a DuPont trademark.

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.



FD45 Brass	Coupling	Thread		nsiona		5 11	Part Number	500	Line
	Size	Size (P)	A	В	$\sqrt{1}$	Buna-N	Viton*	EPR	Ref.
Male Half Female Pipe/Valved	-02	1/8-27	1.28		.56	FD45-1086-02-02			1
	-04	¹ / ₄ -18	1.50		.69		FD45-1092-04-04		2
< A►	-06	³ /8-18	1.66		.88	FD45-1086-06-06			3
	-10	¹ / ₂ -14	1.93		1.06		FD45-1092-08-10		4
	-12	³ / ₄ -14	2.26		1.31	FD45-1086-12-12			5
, T	-16	1-11 ¹ /2	2.72		1.62	FD45-1086-16-16			6
	-20	1 ¹ /4-11 ¹ /2	4.25		2.38	FD45-1086-20-20	FD45-1092-20-20	FD45-1153-20-20	7
		not repres				ED45 1101 02 02	FD45-1091-02-02	ED45 1156 02 02	8 9
Female Half Female Pipe/Valved	-02	¹ /8-27	1.81	.96	.75				
	-04	¹ /4-18	2.22	1.13	.81			FD45-1156-04-04	10
	-06	³ /8-18 ¹ /2-14	2.45	1.38	1.06		FD45-1091-06-06 FD45-1091-08-10		11
	-10		2.86	1.69 2.01	1.31			FD45-1156-08-10 FD45-1156-12-12	12 13
B	-12	³ /4-14	3.40		1.62				
	-16 -20	1-11 ¹ / ₂ 1 ¹ / ₄ -11 ¹ / ₂	4.02 4.49	2.38	1.94 2.38		FD45-1091-16-16 FD45-1091-20-20	FD45-1156-16-16	14 15
P X.		not repres				FD45-1101-20-20	FD45-1091-20-20	FD45-1150-20-20	15
O succession of the succession			2.31	e or2	J size.	FD45-1100-02-02	ED45 1000 02 02	FD45-1157-02-02	
Complete Coupling Female Pipe/Valved	-02 -04	¹ /8-27 ¹ /4-18	2.31				FD45-1090-02-02 FD45-1090-04-04		17 18
		³ /8-18	3.04						10
A	-06	¹ /2 -14	3.54			FD45-1100-06-06 FD45-1100-08-10		FD45-1157-06-06 FD45-1157-08-10	20
	-10 -12	³ / ₄ -14	4.02			FD45-1100-08-10 FD45-1100-12-12		FD45-1157-08-10	20
	-12	1-11 ¹ /2	4.02			FD45-1100-12-12 FD45-1100-16-16		FD45-1157-12-12 FD45-1157-16-16	21
	-10	1 ⁻ 11 ⁻ /2	4.00 6.80						22
		not repres		o of 2		FD45-1100-20-20	FD45-1090-20-20	FD45-1157-20-20	23 24
Male Half	-02	¹ /8-27	1.20	e oi -2	.56	FD45-1175-02-02	ED45_1175_02_02	FD45-1175-02-02	24
Female Pipe/Non-Valved	-02	¹ /4-18	1.37		.50	FD45-1175-04-04		FD45-1175-04-04	25
	-04	³ /8-18	1.50		.03	FD45-1175-06-06		FD45-1175-06-06	20
• A •	-10	¹ /2-14	1.76		1.06	FD45-1175-08-10		FD45-1175-08-10	27
	-12	³ / ₄ -14	2.00		1.31	FD45-1175-12-12		FD45-1175-12-12	20
	-12	1-11 ¹ /2	2.00		1.62			FD45-1175-16-16	
2° P	-20	1 ¹ / ₄ -11 ¹ / ₂				FD45-1175-20-20			
Will not operate with valved coupling halves. No valve actuator.		not repres		o of _2		1 D43-1173-20-20	1 D43-1399-20-20	1 D43-1400-20-20	32
Female Half	-02	¹ /8-27	1.81	.96	.75	ED45_1176_02_02	FD45-1180-02-02	FD45-1178-02-02	33
Female Pipe/Non-Valved	-04	¹ / ₄ -18	2.22	1.13	.73		FD45-1180-04-04		34
• A•	-04	³ /8-18	2.22	1.38	1.06		FD45-1180-06-06		35
	-00	¹ /2 -14	2.45	1.69	1.00	FD45-1176-08-08		FD45-1178-08-08	36
	-12	³ / ₄ -14	3.40	2.01	1.62		FD45-1180-08-10		
	-12	1-11 ¹ /2	4.02	2.01	1.94		FD45-1180-12-12		38
P (1) 13 13 1	-20	1 ¹ / ₄ -11 ¹ / ₂	4.02	2.50	2.38	FD45-1176-20-20		FD45-1178-20-20	
Will not operate with valved coupling halves. No valve actuator.	I	not repres				1 2 40 1170 20 20	2 40 1100 20 20	1.5-0 1170 20-20	40
Repair Kit	71113			201 2	0.20.				41
Each kit will repair one male or female half.	-02					FF016-02†	FF017-02†	FF018–02†	42
	-04					FF016-04	FF017–04	FF018-04	43
	-04					FF016-06	FF017–04	FF018-06	44
	-10					FF016–10	FF017–10	FF018–10	44
	-12					FF016–12	FF017–12	FF018–12	46
	-12					FF016–12	FF017–12	FF018–12	40
†The -02 coupling size valving is not repairable. This size repair kit contains an interface seal and back-up ring.	-20					FF016-20	FF017–20	FF018-20	47
*Viton is a DuPont trademark.	20					11010 20	11011 20	11010-20	40

*Viton is a DuPont trademark.

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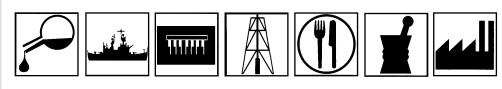
FD45 Brass	Coupling Size	Thread Size (P)	-	sional	— ·	Buna-N	Part Number Viton*	EPR	Li
		. ,	A	В	$\langle 1 \rangle$				R
Complete Coupling Female Pipe/Non-Valved	-02	1/8-27	2.31			FD45-1174-02-02	FD45-1179-02-02	FD45-1177-02-02	-
	-04	¹ / ₄ -18	2.74			FD45-1174-04-04	FD45-1179-04-04	FD45-1177-04-04	+
+ A	-06	³ /8-18	3.04			FD45-1174-06-06	FD45-1179-06-06	FD45-1177-06-06	-
	-10	¹ /2 -14	3.54			FD45-1174-08-10	FD45-1179-08-10	FD45-1177-08-10	-
	-12	³ /4-14	4.02			FD45–1174–12–12	FD45–1179–12–12	FD45-1177-12-12	-
	-16	1-11 ¹ /2	4.88			FD45-1174-16-16	FD45-1179-16-16	FD45-1177-16-16	-
<u> </u>	-20	1 ¹ / ₄ - 11 ¹ / ₂	6.80			FD45-1174-20-20	FD45-1179-20-20	FD45–1177–20–20	
	Art is	not repres	sentativ	e of –2	0 size				
Male Half									
Female Pipe/Pusher Style Valving	-04	¹ /4 -18	1.50		.75	FD45-1201-04-04	FD45-1201-04-04	FD45-1201-04-04	•
• A	-06	³ /8-18	1.66		.88	FD45-1201-06-06	FD45-1201-06-06	FD45-1201-06-06	5
	-10	¹ /2 -14	1.93		1.06	FD45-1201-08-10	FD45-1201-08-10	FD45-1201-08-10)
	-12	³ /4 -14	2.26		1.31	FD45-1201-12-12	FD45-1201-12-12	FD45-1201-12-12	2
	-16	1-11 ¹ / ₂	2.72		1.62	FD45-1201-16-16	FD45-1201-16-16	FD45-1201-16-16	5
Ĵ) (
Incorporates a pusher device to open mating valved coupling halves.			•						T
Female Half									T
Female Pipe/Pusher	-04	¹ /4-18	2.22	1.13	.88	FD45-1203-04-04	FD45-1199-04-04	FD45-1211-04-04	
Style Valving	-06	³ /8-18	2.45	1.38	1.06	FD45-1203-06-06	FD45-1199-06-06	FD45-1211-06-06	;
AA	-10	¹ /2-14	2.86	1.69	1.31	FD45-1203-08-10	FD45–1199–08–10	FD45-1211-08-10	+
	-12	³ / ₄ -14	3.40	2.01	1.62	FD45-1203-12-12	FD45-1199-12-12	FD45-1211-12-12	+
	-16	1-11 ¹ /2	4.02	2.38	1.94	FD45-1203-16-16	FD45-1199-16-16	FD45-1211-16-16	+
	-10	1-11/2	4.02	2.50	1.34	1 D43-1203-10-10	1 D43-1199-10-10	1 045-1211-10-10	+
Incorporates a pusher device to open mating valved coupling halves.									
Repair Kit									+
ach kit will repair one male or female	00					FF010 001	FE017 001	FF040.001	
half.	-02					FF016-02†	FF017-02†	FF018-02†	
	-04					FF016-04	FF017–04	FF018–04	
	-06					FF016–06	FF017–06	FF018–06	
	-10					FF016–10	FF017–10	FF018–10	
he –02 coupling size valving is	-12					FF016–12	FF017–12	FF018–12	
t repairable. This size repair kit con- ns an interface seal and	-16					FF016–16	FF017–16	FF018–16	
ck-up ring.	-20					FF016–20	FF017–20	FF018–20	
Accessories									
Dust Cap	-02						FD45–1040–02		
	-04						FD45-1040-04		
	-06						FD45-1040-06		
	-10						FD45-1040-10		
()	-12						FD45-1040-12		t
	-16						FD45-1040-16		
			1						
Dust Plug	-02						FD45-1041-02		1
	-04						FD45–1041–04		1
\frown	-06						FD45-1041-06		
	-10						FD45-1041-10		
	-10						FD45-1041-12		
									+
-	16						FD45–1041–16		-

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.

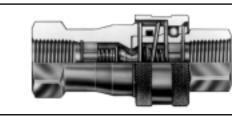




FD45 Series/Industrial Interchange Series B . . . (Stainless Steel)





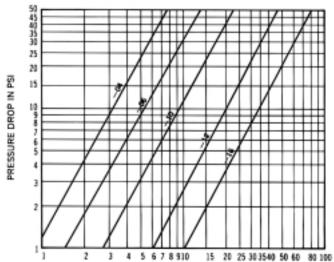


The FD45 stainless steel is a general purpose industrial interchange coupling available valved or non-valved. Offered in 303/304 grades of stainless steel for excellent corrosion resistance in rugged applications.

- Industrial interchange coupling conforming dimensionally to ISO standard 7241/1 Series B.
- Stainless steel construction for greater corrosion resistance and fluid compatibility.
- PUSH-PULL[™] ball latch design allows quick and easy connection and disconnection of hose lines.
- Self-sealing poppet valves provide excellent high and low pressure sealing.
- Standard seal material Buna-N, EPR and Viton*.
- Standard body material Stainless Steel.

Flow Data





GALLONS PER MINUTE FLOW

(TEST FLUID MIL-H-5606 HYDRAULIC OIL AT 100* F.)

Physical Characteristics

	Maximum Operating Pressure		Minimum				
Coupling Size	Hydraulic (psi)	Static (psi)	Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max)
-04	3,000	3,000	12,000	28	3	.50	.50
-06	1,500	1,750	12,000	28	6	2.5	1.3
-10	1,500	1,750	12,000	28	12	4.0	2.8
-12	1,500	1,750	12,000	28	28	11.0	8.2
-16	1,250	1,500	12,000	28	50	18.0	16.0

*Viton is a DuPont trademark.

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D45 Stainless Steel	Coupling Size	Thread Size (P)	Dimer A	nsiona B	Data	Buna-N	Part Number Viton*	EPR	Line
Male Half	-04	¹ / ₄ -18	1.46			FD45-1004-04-04	FD45-1078-04-04	FD45–1121–04–04	1
Female Pipe/Valved	_04 _06	³ /8-18	1.66			FD45-1004-06-06	FD45-1078-04-04	FD45-1121-06-06	
		¹ /2-14	1.89						-
A	-10	-				FD45-1004-08-10	FD45-1078-08-10	FD45-1121-08-10	3
	-12	³ /4-14	2.26		-	FD45-1004-12-12	FD45-1078-12-12	FD45-1121-12-12	4
	-16	1-11 ¹ / ₂	2.72		1.62	FD45-1004-16-16	FD45–1078–16–16	FD45-1121-16-16	
									(
									8
Female Half	-04	¹ /4-18	2.22	1.13	.81	FD45–1005–04–04	FD45-1076-04-04	FD45-1122-04-04	9
Female Pipe/Valved	-06	³ /8-18	2.45	1.38	1.06	FD45-1005-06-06	FD45-1076-06-06	FD45-1122-06-06	10
A	-10	¹ /2 -14	2.86	1.69	1.31	FD45-1005-08-10	FD45-1076-08-10	FD45-1122-08-10	1'
	-12	³ /4-14	3.40	2.01	1.62	FD45-1005-12-12	FD45-1076-12-12	FD45-1122-12-12	12
	-16	1-11 ¹ / ₂	4.02	2.38	2.00	FD45–1005–16–16	FD45-1076-16-16	FD45-1122-16-16	1
									1
									1:
۳ مـ <i>ـ</i>									10
Complete Coupling	-04	¹ /4-18	2.70			FD45–1001–04–04	FD45-1075-04-04	FD45-1120-04-04	17
Female Pipe/Valved	-06	³ /8-18	3.04			FD45-1001-06-06	FD45-1075-06-06	FD45-1120-06-06	18
·	-10	¹ /2-14	3.50			FD45–1001–08–10	FD45–1075–08–10	FD45-1120-08-10	19
• A	-12	³ / ₄ -14	4.02			FD45-1001-12-12	FD45-1075-12-12	FD45-1120-12-12	2
	-12	1-11 ¹ / ₂	4.88			FD45-1001-16-16	FD45-1075-16-16	FD45-1120-16-16	2
	-10	1-11/2	4.00			FD45-1001-10-10	FD45-1075-10-10	FD45-1120-10-10	-
									2
G# _ G#									2:
									24
Male Half	-04	¹ /4-18	1.33		.69	FD45-1062-04-04	FD45-1062-04-04	FD45-1062-04-04	-
Female Pipe/Non-Valved	-06	³ /8-18	1.50		.88	FD45-1062-06-06	FD45-1062-06-06	FD45-1062-06-06	2
A+	-10	¹ /2 -14	1.72		1.06	FD45-1062-08-10	FD45-1062-08-10	FD45-1062-08-10	2
	-12	³ /4 -14	2.00		1.31	FD45-1062-12-12	FD45-1062-12-12	FD45-1062-12-12	28
	-16	1-11 ¹ / ₂	2.43		1.62	FD45–1062–16–16	FD45-1062-16-16	FD45-1062-16-16	2
									3
2									3
Will not operate with valved coupling halves. No valve actuator.									3
Female Half	-04	¹ /4-18	2.22	1.13	.81	FD45-1053-04-04	FD45-1195-04-04	FD45-1142-04-04	3
Female Pipe/Non-Valved	-06	³ /8-18	2.45	1.38	1.06	FD45-1053-06-06	FD45-1195-06-06	FD45-1142-06-06	3
	-10	¹ /2 -14	2.86	1.69		FD45–1053–08–10	FD45-1195-08-10	FD45-1142-08-10	3
→ A →	-12	³ / ₄ -14	3.40	2.01		FD45-1053-12-12	FD45-1195-12-12	FD45-1142-12-12	-
	-16	1-11 ¹ / ₂	4.02	2.38		FD45-1053-16-16	FD45-1195-16-16	FD45-1142-16-16	-
B	10	1-11/2	7.02	2.00	2.00				3
B									3
									-
Will not operate with valved coupling									4
halves. No valve actuator.									4
Repair Kit	-04					FF054–04	FF055–04	FF056–04	42
Each kit will repair one male or female half.	-06					FF054–06	FF055–06	FF056–06	4:
	-10					FF054–10	FF055–10	FF056–10	4
	-12					FF054–12	FF055–12	FF056–12	4
	-16					FF054–16	FF055–16	FF056–16	4
									47
				-					_

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	Coupling	Thread	Dimer	Isiona	I Data		Part Number		Line
FD45 Stainless Steel	Size	Size(P)	A	B	$\sqrt{1}$	Buna-N	Viton*	EPR	Ref.
Complete Coupling	-04	1/4-18	2.70			FD45-1052-04-04	FD45-1194-04-04	FD45-1143-04-04	1
Female Pipe/Non-Valved	-06	³ /8-18	3.04			FD45-1052-06-06	FD45-1194-06-06	FD45-1143-06-06	2
	-10	¹ /2-14	3.50			FD45-1052-08-10	FD45-1194-08-10	FD45-1143-08-10	3
	-12	³ /4-14	4.02			FD45-1052-12-12	FD45-1194-12-12	FD45-1143-12-12	4
	-16	1-11 ¹ /2	4.88			FD45-1052-16-16	FD45-1194-16-16	FD45-1143-16-16	5
									6
									7
									8
Male Half	-04	¹ /4-18	1.46		.69	FD45-1059-04-04	FD45-1059-04-04	FD45-1059-04-04	9
Female Pipe/Pusher Style	-06	³ /8-18	1.66		.88	FD45-1059-06-06	FD45-1059-06-06	FD45-1059-06-06	10
Valving	-10	¹ /2 -14	1.89		1.06	FD45-1059-08-10	FD45-1059-08-10	FD45-1059-08-10	11
A	-12	³ /4-14	2.26		1.31	FD45-1059-12-12	FD45-1059-12-12	FD45-1059-12-12	12
	-16	1-11 ¹ /2	2.72		1.62	FD45-1059-16-16	FD45-1059-16-16	FD45-1059-16-16	13
									14
, tr									15
Incorporates a pusher device to open mating coupling halves									16
Female Half	-04	¹ /4-18	2.22	1.13	.81	FD45-1056-04-04	FD45-1197-04-04	FD45-1209-04-04	17
Female Pipe/Pusher Style Valving	-06	³ /8-18	2.45	1.38	1.06	FD45-1056-06-06	FD45-1197-06-06	FD45-1209-06-06	18
	-10	¹ /2 -14	2.86	1.69	1.31	FD45-1056-08-10	FD45-1197-08-10	FD45-1209-08-10	19
	-12	³ /4-14	3.40	2.01	1.62	FD45-1056-12-12	FD45-1197-12-12	FD45-1209-12-12	20
	-16	1-11 ¹ /2	4.02	2.38	2.00	FD45-1056-16-16	FD45-1197-16-16	FD45-1209-16-16	21
									22
									23
Incorporates a pusher device to open mating coupling halves									24
Repair Kit									25
Each kit will repair one male or	-04					FF054–04	FF055–04	FF056–04	26
female half.	-06					FF054–06	FF055–06	FF056–06	27
	-10					FF054–10	FF055–10	FF056–10	28
	-12					FF054–12	FF055–12	FF056–12	29
	-16					FF054–16	FF055–16	FF056–16	30
									31
									32
Accessories								1	33
Dust Cap	-04						FD45-1040-04		34
	-06						FD45-1040-06		35
	-10						FD45-1040-10		36
U a	-12						FD45-1040-12		37
V	-16						FD45-1040-16		38
Dust Plug	-04						FD45-1041-04		39
	-06						FD45-1041-06		40
	-10						FD45-1041-10		41
N O	-12						FD45–1041–12		42
	-16						FD45-1041-16		43
*Viton is a DuPont trademark.	-			1	1	1			

*Viton is a DuPont trademark.

Aeroquip



ED4E Stainlage Steel	Coupling	Thread	Dimer	nsiona	I Data		Part Number		Line
FD45 Stainless Steel	Size	Size (P)		В	(1)	Buna-N	Viton*	EPR	Ref.
[†] Fryer Coupling/Male Half Female Pipe/Valved	-10	¹ /2 -14	1.92		1.06		FD45-1270-08-10		1
r emale Fipe/valveu									2
									3
									4
									5
									6
ΔŢ P									7
									8
[†] Fryer Coupling/Female Half	-10	¹ /2 -14	2.86	2.38	1.31		FD45-1267-08-10		9
Female Pipe/Valved Silicone Collar on Ball Release Sleeve									10
									11
									12
									13
									14
									15
P' <u>{1</u> }									16

Special internal Viton seal material approved for use by the National Sanitation Foundation. The fryer coupling uses a silicone collar aiding disconnection with hot fluid applications.

Connecting and disconnecting lines between deep fat fryers and oil recycling units has been made cleaner, safer and quicker with Aeroquip's FD45 "Fryer" coupling.

Aeroquip's FD45 "Fryer" coupling is made of stainless steel with Viton* seal material. It has a silicone rubber collar on the sleeve of the female half to provide insulation from high oil temperatures and an excellent gripping surface during connection and disconnection. The coupling has been approved for use by the National Sanitation Foundation.

*Viton is a DuPont trademark.



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FD48 Series/Parker Bruning—SM Interchange







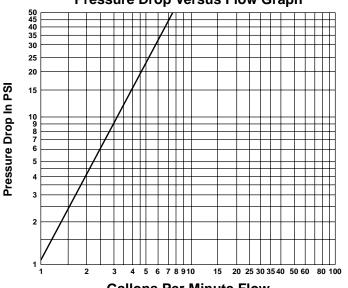
The FD48 Series coupling is designed to interchange with Parker Bruning SM-250 couplings.

- Self-sealing poppet valves provide excellent high and low pressure sealing.
- PUSH-PULL[™] ball latch design allows quick and easy connection and disconnection of fluid lines.
- Heat-treated and plated steel for wear and ۰ corrosion resistance.
- 3,000 psi operating pressure.

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- Standard seal material - Buna-N.
- Standard seal material Zinc plated steel with zinc poppet guides.

Flow Data



Gallons Per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil At 100°F.)

Phy	sical (Charac	cterist	ics		
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max.)
-04	3,000	12,000	28	3	0.50	1.10

Pressure Drop Versus Flow Graph



FD48 Series	Coupling	Thread		nsional		Part Number	Lin
-D40 Series	Size	Size (P)	A	В	(1)	Buna-N	Re
Male Half	-04	¹ /4-18	1.45		.75	FD48-1002-04-04	1
Female Pipe/Valved							2
							3
							4
							5
							6
<u>с</u> т́ Р							7
							8
Female Half	-04	¹ /4-18	2.01	1.06	.81	FD48-1001-04-04	9
Female Pipe/Valved							10
A→							11
							12
							13
							14
							15
							16
Complete Coupling	-04	¹ /4-18	2.69			FD48–1000–04–04	17
Female Pipe/Valved							18
							19
							20
							21
							22
							23
							24
Accessories							25
Dust Cap/Plug	-04					FD48–1042–04	26
(Fits both male and female							27
halves)							28
							29
							30
-0-							31
•							32



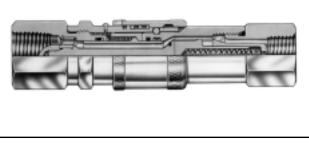
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FD49 Series/HTMA Flush Face, Hydraulic Tool







The FD49 Series meets NFPA standard T3.20.15, which was developed in conjuction with HTMA (Hydraulic Tool Manufacturer's Association).

- Twin-Guard[™] sealing system prevents weepage and allows connection and disconnection against pressure up to 500 psi.
- Dual flush face valving for minimal fluid loss and air inclusion.
- Tubular valve and sleeve construction for high fluid flow with low pressure drop.
- Push-to-connect latching for one hand operation.
- Standard seal material Teflon channel seal and Buna-N O-Ring backup.
- Standard body material Zinc plated steel.



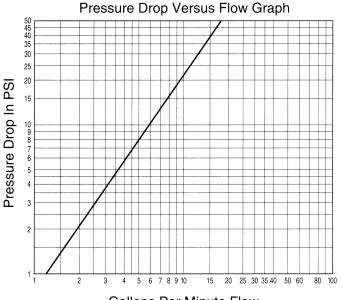
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Our patented' Twin-Guard[™] seal system consists of channel and Buna-N O-Ring seals. The channel seal prevents blowout during connection and disconnection under pressure to 500 psi. The Buna-N O-Ring seal is a secondary seal eliminating fluid weepage.

*Patent Number 5123446

Phy	sical (Charac	cterist	ics		
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max.)
-06	3,000	9,000	28	10	.01	.02

Flow Data



Gallons Per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil At 100° F.)



FD49 Series	Coupling	Thread	Dime	ensiona	I Data		Part Number	Line
	Size	Size (P)	Α	В	$\sqrt{1}$	$\sqrt{2}$	Buna-N	Ref
Male Half	-06	³ /8-18	2.62		1.00		FD49-1002-06-06	1
Female Pipe/Valved	-06	¹ /2 -14	2.75		1.06		FD49–1002–08–06	2
←A								3
								4
								5
								6
۹ ک <u>ر</u>								7
								8
Male Half	-06	⁹ /16 -18	2.79		1.06		FD49-1004-06-06	9
Female SAE O-Ring/Valved	-06	³ /4-16	2.75		1.00		FD49-1004-08-06	10
▲ A►								11
								12
								13
								14
								15
								16
Male Half Male SAE O-Ring/Valved	-06	⁹ / ₁₆ -18	2.99		1.00		FD49–1057–06–06	17
Wale SAE O-Ring/valveu	-06	³ /4-16	2.99		1.00		FD49–1057–08–06	18
← A								19
								20
								21
								22
1								2:
								24
Female Half Female Pipe/Valved	-06	³ /8-18	2.74	1.20	1.00	1.06	FD49–1001–06–06	2
i cinale i ipe/valved	-06	¹ /2 -14	2.85	1.20		1.06	FD49–1001–08–06	2
• A •								2
								28
								29
								30
~~ <u>\</u> 2)								31
								32
Female Half Female SAE O-Ring/Valved	-06	³ /4-16	2.82	1.20		1.06	FD49-1005-08-06	33
,								34
A								3
								36
								37
								38
~=/								39
								40

This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.



FD49 Series	Coupling	Thread	Din	nensio	nal Da	ata	Part Number	Line
rD49 Series	Size	Size (P)	Α	В	$\sqrt{1}$	<u>,2</u>)	Buna-N	Ref.
Female Half	-06	⁹ / ₁₆ -18	3.22	1.20	1.00	1.06	FD49-1014-06-06	1
Male SAE O-Ring/Valved	-06	³ /4-16	3.28	1.20	1.00	1.06	FD49-1014-08-06	2
• A•								3
								4
B								5
								6
<u> </u>								7
								8
Female Half/Heavy Duty Sleeve Female Pipe/Valved	-06	³ /8-18	2.74	1.40	1.00	1.06	FD49-1200-06-06	9
	-06	1/2-14	2.85	1.40		1.06	FD49-1200-08-06	10
								11
								12
								13
								14
								15
								16
Accessories								17
Dust Cover								18
For Standard Coupling								19
	-06						FD49–1042–06	20
								21
								22
								23
								24 25
								-
								26 27
Dust Cover	-06						FD49-1088-06	27
For Heavy Duty Coupling	-00						FD49-1000-00	20
								30
								30
								31
								33
$\overline{\mathbf{U}}$								34
								34

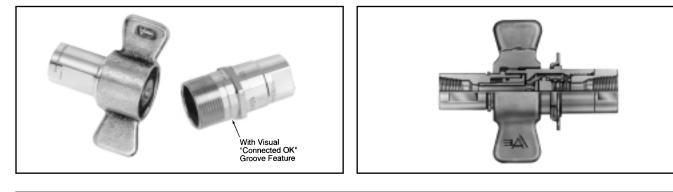
This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.

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5100 Series/Low Spill—Connect Under Pressure





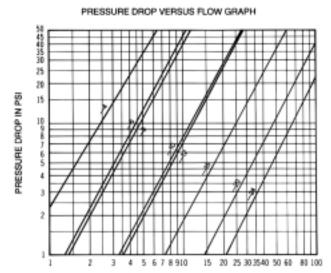
The 5100 Series brass coupling with steel tubular valve offers minimum air inclusion and fluid loss. Thread together latch provides connect under pressure capability and vibration resistance. It is not rated for continuous hydraulic impulse applications. (See FD86 on page 336.)

- Tubular valve construction for virtually no fluid loss during disconnection, reduces environmental and worker safety hazards.
- Low air inclusion during connection maintains system performance.
- Available with wing or hex nut configurations.
- Connect against pressure capability allows connecting of halves even when pressurized up to 500 psi.
- Steel flange available for accessible bulkhead mounting.

Physical Characteristics

- Standard seal material Buna-N, Viton* and EPR available upon request.
- Standard body material Brass with steel valving components, hex and wing nuts.

Flow Data



GALLONS PER MINUTE FLOW (TEST FLUE MIL-H-SKOE HYDRAUUC OL AT 100°F)

Coupling	Coupling	Maximum Operating	Maximum Oper (psi disco	ating Pressure		Rated	Air	Fluid
Dash Size	Interface Size	Pressure [†] (psi connected)	Male Half S2 and S4	Female Half S5	Vacuum (in./Hg.)	Flow (gpm)	Inclusion (cc max.)	Loss (cc max.)
-4	-4	3000	3000	3000	28	4	.03	.01
-6	-8	3000	3000	3000	28	7	.05	.06
-8	-8	3000	3000	3000	28	7	.05	.10
-10	-12	3000	3000	3000	28	18	.14	.10
-12	-12	3000	3000	3000	28	18	.34	.26
-16	-16	3000	3000	3000	28	40	.50	.35
-20	-20	2750	2500	2750	28	75	.68	.70
-24	-24	2500	2500	2000	28	100	.60	.94

+ Himimum burst pressure is equal to three times the maximum operating pressure. Not recommended for continuous hydraulic impulse applications at maximum operating pressures.

*Viton is a DuPont trademark





For component part number breakdown and service instructions, request bulletin JB41.

				ensio				Part Number		
5100 Series	Coupling						Bung N	1	EDD	Line Ref.
	Size	Size (P)	A	В	$\sqrt{1}$	<u>(2)</u>	Buna-N	Viton*	EPR	
Male Half/Less Flange Female Pipe	-4	¹ /8-27	1.88	.90	.69		5100–S2–4B	FD51–1264–04	FD51-1265-04	1
i emaie i ipe	-6	1/4-18		1.07	.94		5100–S2–6B	FD51–1264–06	FD51-1265-06	2
ا م ــــــــــــــــــــــــــــــــــــ	-8	³ /8-18	2.58		.94		5100–S2–8B	FD51-1264-08	FD51-1265-08	3
	-10	¹ /2 -14	3.11	1.38			5100–S2–10B	FD51-1264-10	FD51-1265-10	4
В	-12	³ /4-14	3.11	1.38	1.19		5100–S2–12B	FD51-1264-12	FD51-1265-12	5
	-16	1-11 ¹ /2	3.55	1.76	1.56		5100–S2–16B	FD51-1264-16	FD51-1265-16	6
↓ P	-20	1 ¹ /4-11 ¹ /2	-	2.10			5100–S2–20B	FD51-1264-20	FD51-1265-20	7
	-24	1 ¹ /2-11 ¹ /2	4.12	2.48	2.19		5100–S2–24B	FD51-1264-24	FD51-1265-24	8
Male Half/With Flange Female Pipe	-4	¹ /8-27	1.88	.90	.94		5100–S4–4B			9
remaie Pipe	-6	¹ /4 -18	2.58	1.07	1.12		5100–S4–6B			10
A	-8	³ /8-18	2.58	1.07	1.12		5100–S4–8B			11
	-10	¹ /2 -14	3.11	1.38	1.62		5100–S4–10B			12
	-12	³ / ₄ -14	3.11	1.38	1.62		5100–S4–12B			13
	-16	1-11 ¹ /2	3.55	1.76	1.88		5100–S4–16B			14
	-20	1 ¹ / ₄ -11 ¹ / ₂	3.71	2.10	2.12		5100–S4–20B			15
	-24	1 ¹ /2-11 ¹ /2	4.12	2.48	2.50		5100–S4–24B			16
Female Half/Wing Nut	-4	¹ /8-27	1.97	3.03	.56		5100–S5–4B	FD51-1266-04	FD51-1268-04	17
Female Pipe	-6	¹ /4 -18	2.37	3.44	.76		5100–S5–6B	FD51-1266-06	FD51-1268-06	18
	-8	³ /8-18	2.37	3.44	.76		5100–S5–8B	FD51-1266-08	FD51-1268-08	19
	-10	¹ /2 -14	3.09	4.06	1.16		5100–S5–10B	FD51-1266-10	FD51-1268-10	20
	-12	³ /4-14	3.09	4.06	1.16		5100–S5–12B	FD51-1266-12	FD51-1268-12	21
	-16	1-11 ¹ /2	3.67	4.38	1.44		5100–S5–16B	FD51-1266-16	FD51-1268-16	22
P (1)	-20	1 ¹ / ₄ -11 ¹ / ₂	3.98	5.19	1.78		5100-S5-20B	FD51-1266-20	FD51-1268-20	23
	-24	1 ¹ /2-11 ¹ /2	4.02	5.31	2.00		5100-S5-24B	FD51-1266-24	FD51-1268-24	24
Female Half/Hex Nut	-4	¹ /8-27	2.10	1.32	.56	1.19	5110–S5–4B	FD51-1267-04	FD51-1269-04	25
Female Pipe	-6	¹ /4-18	2.40	1.53	.76	1.38	5110–S5–6B	FD51-1267-06	FD51-1269-06	26
	-8	³ /8-18	2.40	1.53	.76	1.38	5110–S5–8B	FD51-1267-08	FD51-1269-08	27
▲ A◆	-10	¹ /2 -14	3.07	1.98	1.16	1.75	5110–S5–10B	FD51–1267–10	FD51-1269-10	28
	-12	³ /4-14	3.07	1.98	1.16	1.75	5110–S5–12B	FD51-1267-12	FD51-1269-12	29
	-16	1-11 ¹ /2	3.68	2.41	1.44	2.12	5110–S5–16B	FD51-1267-16	FD51-1269-16	30
	-20	1 ¹ / ₄ -11 ¹ / ₂	4.00	2.81	1.78	2.50	5110–S5–20B	FD51-1267-20	FD51-1269-20	31
(2)	-24	1 ¹ /2-11 ¹ /2	4.10	3.10	2.00	2.75	5110–S5–24B	FD51-1267-24	FD51-1269-24	32
Complete Coupling	-4	¹ /8-27	3.20				5101–4B	FD51-1270-04	FD51-1272-04	33
Less Flange/With Wing Nut/	-6	¹ /4-18	4.11				5101–6B	FD51-1270-06	FD51-1272-06	34
Female Pipe	-8	³ /8-18	4.11				5101–8B	FD51-1270-08	FD51-1272-08	35
A+	-10	¹ /2 -14	5.21				5101–10B	FD51-1270-10	FD51-1272-10	36
	-12	³ / ₄ -14	5.21				5101–12B	FD51–1270–12	FD51–1272–12	37
	-16	1-11 ¹ /2	5.98				5101–16B	FD51-1270-16	FD51–1272–16	38
	-20	1 ¹ / ₄ -11 ¹ / ₂	6.31				5101–20B	FD51-1270-20	FD51-1272-20	39
	-24	1 ¹ /2-11 ¹ /2	6.52				5101–24B	FD51–1270–24	FD51-1272-24	40
Repair Kit	-4	. ,2 11 /2	0.02				FF098-04	FF095-04	FF097-04	41
Each kit will repair male and female	-6, -8						FF098-08	FF095-08	FF097–08	42
halves.	-0, -0						FF098–08	FF095–12	FF097-12	42
	-10, -12						FF098–12 FF098–16	FF095–12 FF095–16	FF097-12 FF097-16	43
	-10						FF098-10	FF095-18	FF097-18	44
	-20						FF098-20 FF098-24	FF095-20 FF095-24	FF097-20	45
*Viton is a DuPont trademark.	-24						11030-24	1 1033-24	11097-24	40





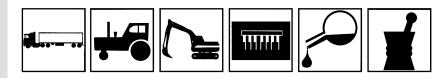
				F	or com	poner	nt part	number breakdown ar	d service instructions,	request bulletin JB41.	
5100 Seri	20	Coupling	Thread	Dim	ensio	nal D	ata		Part Number		Line
5100 3611	65	Size	Size (P)	Α	В	$\sqrt{1}$	<u>\$2</u>	Buna-N	Viton**	EPR	Ref.
Complete	e Coupling	-4	¹ /8-27	3.24				5100–4B			1
U U	Vith Wing Nut/ le Pipe	-6	¹ /4-18	4.11				5100–6B			2
- -		-8	³ /8-18	4.11				5100–8B			3
	$\hat{1}$	-10	¹ /2 -1 4	5.21				5100–10B			4
	-	-12	³ /4-14	5.21				5100–12B			5
		-16	1-11 ¹ /2	5.99				5100–16B			6
<u> </u>		-20	1 ¹ /4-11 ¹ /2	6.33				5100–20B			7
		-24	1 ¹ /2-11 ¹ /2	6.54				5100–24B			8
	e Coupling	-4	¹ /8-27	3.20				5111–4B	FD51-1271-04	FD51-1273-04	9
•	With Hex Nut/ le Pipe	-6	¹ /4-18	4.11				5111–6B	FD51-1271-06	FD51-1273-06	10
		-8	³ /8-18	4.11				5111–8B	FD51-1271-08	FD51-1273-08	11
· · · · · · · · · · · · · · · · · · ·	A	-10	¹ /2 -1 4	5.21				5111–10B	FD51-1271-10	FD51-1273-10	12
		-12	³ /4-14	5.21				5111–12B	FD51-1271-12	FD51-1273-12	13
		-16	1-11 ¹ /2	5.98				5111–16B	FD51-1271-16	FD51-1273-16	14
		-20	1 ¹ / ₄ -11 ¹ / ₂	6.31				5111–20B	FD51-1271-20	FD51-1273-20	15
		-24	1 ¹ / ₂₋ -11 ¹ / ₂	6.52				5111–24B	FD51-1271-24	FD51-1273-24	16
	e Coupling	-4	¹ /8-27	3.20				5110–4B			17
U U	With Hex Nut/ le Pipe	-6	¹ /4-18	4.11				5110–6B			18
, i onic	, ipo	-8	³ /8-18	4.11				5110–8B			19
	A	-10	¹ /2 -1 4	5.21				5110–10B			20
		-12	³ /4-14	5.21				5110–12B			21
		-16	1-11 ¹ /2	5.98				5110–16B			22
l — h	,	-20	1 ¹ /4-11 ¹ /2	6.31				5110–20B			23
		-24	1 ¹ /2-11 ¹ /2	6.52				5110–24B			24
	air Kit	-4						FF098–04	FF095–04	FF097–04	25
Each kit will repair halves.	male and female	-6, -8						FF098–08	FF095–08	FF097–08	26
		-10, -12						FF098–12	FF095–12	FF097–12	27
		-16						FF098–16	FF095–16	FF097–16	28
		-20						FF098–20	FF095–20	FF097–20	29
		-24						FF098–24	FF095–24	FF097–24	30
	sories							Dust Cap with Chain	Dust Plug with Chain	6 Bolt Flange	31
Dust Cap with Chain*	Dust Plug with Chain*	-4						5100–S7–5	5100–S9–5		32
		-6, -8						5100–S7–8	5100–S9–8		33
$\bigcirc \neg$	-	-10, -12						5100–S7–12	5100–S9–12		34
	6	-16						5100–S7–16	5100–S9–16		35
a 🔤		-20						5100–S7–20	5100–S9–20		36
600	a ser	-24						5100–S7–24	5100–S9–24		37
											38
											39
6 Bolt	Flange [†]	-4		.201	1.44					150–22–5	40
ADM 35		-6, -8		.201	1.69					150–22–8	41
and the second s		-10, -12		.201	2.12					150–22–12	42
		-16		.201	2.38					150–22–16	43
an Court	Me.	-20		.201	2.62					150–22–20	44
Dia.		-24		.201	3.25					5100–22–24S	45

¹⁶ Bolt Flange-holes equally spaced. (See "A" for bolt hole diameter, and "B" for bolt circle diameter).
*To order caps and plugs without chain, order cap by part number 5100-32-(size) and plug by part number 5100-41-(size).

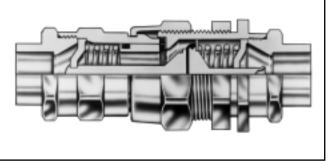
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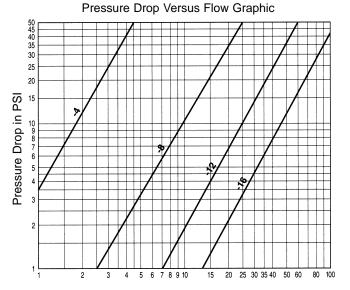




The 5400 Series is designed for air conditioning, refrigerant, gaseous and fluid transfer applications.

- Brazed or threaded end connections for versatility of installation on tubing or hose.
- Tubular valve construction for low fluid loss and air inclusion.
- Thread together design allows connection and disconnection against pressure.
- Lock washer and jam nut standard for optional bulkhead mounting.
- Standard seal material Neoprene.
- Standard adapter material Steel or Brass.
- Standard body material Zinc plated steel.
- Safety sleeve lock available, contact Eaton Aeroquip for details.

Flow Data

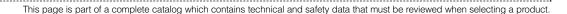


Gallons Per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil At 100° F)

1		01150105							
Coupling Dash	Maxium Operating Pressure	Minimum Burst Pressure		erating Pressure connected)	Vacuum	Rated Flow	Air	Fluid Loss	
Size	(psi connected)	(psi connected)	Male Half	Female Half	(in./Hg.)	(gpm)		(cc max.)	
-4	3000	9000	2500	500	28	2	.10	.05	
-8	1750	5200	1750	400	28	14	.10	.10	
-12	700	2100	800	400	28	35	.30	.10	
-16	700	2100	700	300	28	75	.50	.20	

Physical Characteristics

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FLUID TRANSFER & REFRIGERANT



5400 Series	Coupling	Thread	Tube	L	-	imensi	onal Dat	ta	Part Number	Lir
	Size	Size (P)	O.D. Size	Α	В	$\sqrt{1}$	<u>\$2</u>	<u>_3</u>	Neoprene	Re
Male Half	-4			1.08	.83	.75			5400-S2-4	
No Adapter	-8			1.37	1.25	1.13			5400–S2–8	
la	-12			1.74	1.83	1.63			5400-S2-12	
	-16			1.83	2.10	1.88			5400-S2-16	
Ţ.										
Female Half	-4			1.13	.83	.63	.75		5400–S5–4	
No adapter	-8			1.63	1.31	1.00	1.19		5400-S5-8	1
←A►	-12			2.15	1.80	1.38	1.63		5400-S5-12	1
	-16			2.37	2.24	1.75	2.00		5400–S5–16	1
										1
										1
(1) (2)										1
										1
Male Half SAE 37° (JIC)	-4	⁷ / ₁₆ -20		1.88	.83	.75		.63	5410-S17-4-4	1
SAE 37 (JIC)	4	⁹ / ₁₆ -18		1.89	.83	.75		.63	5410-S17-6-4	1
→ A — →	-8	⁹ / ₁₆ -18		2.18	1.25	1.13		1.00	5410–S17–6–8	1
	-8	³ / ₄ -16		2.28	1.25	1.13		1.00	5410–S17–8–8	2
B	-12	7/8-14		-	1.83	1.63		1.38	5410-S17-10-12	2
	-12	1 ¹ / ₁₆ -12		2.86		1.63		1.38	5410-S17-12-12	2
VI 3 P	-16	15/16-12		2.99	2.10	1.88	_	1.75	5410-S17-16-16	2
										2
Female Half SAE 37° (JIC)	-4	7/16-20		1.93	.83	.63	.75	.63	5410–S14–4–4	2
SAL ST (SIC)	-4	⁹ / ₁₆ -18		1.94	.83	.63	.75	.63	5410–S14–6–4	2
▲A►	-8	⁹ / ₁₆ -18		-	1.31	1.00	1.19	1.00	5410–S14–6–8	2
	-8	3/4-16			1.31	1.00	1.19	1.00	5410–S14–8–8	2
	-12	7/8-14			1.80	1.38	1.63	1.38	5410-S14-10-12	2
	-12	1 ¹ / ₁₆ -12		3.27	1.80	1.38	1.63	1.38	5410-S14-12-12	3
P' UN D	-16	1 ⁵ /16-12		3.53	2.24	1.75	2.00	1.75	5410–S14–16–16	3
							_			3
Complete Coupling SAE 37° (JIC)	4	⁷ / ₁₆ -20		3.54					5410–4–4	3
	-4	⁹ / ₁₆ -18		3.56					5410–6–4	3
	-8	⁹ / ₁₆ -18		4.23					5410–6–8	3
	-8	³ /4-16		4.44					5410-8-8	3
	-12	⁷ /8-14		5.33					5410–10–12	3
	-12	1 ¹ /16-12		5.54					5410–12–12	3
	-16	15/16-12		5.89					5410–16–16	3
										4
Male Half Braze Tubing Adapter	-4		1/4	1.52	.83	.75		.63	5401–S17–4–4	4
	-4		3/8	1.52	.83	.75	-	.63	5401-S17-6-4	4
A	-8		3/8	1.75		1.13		1.00	5401–S17–6–8	4
	-8		1/2		1.31	1.13		1.00	5401–S17–8–8	4
В	-12		⁵ / ₈	2.47		1.63		1.38	5401-S17-10-12	4
	-12		3/4		1.80	1.63		1.38	5401–S17–12–12	4
	-16		1	2.80	2.24	1.88	-	1.75	5401–S17–16–16	4
					1	1	1			4

I..... This page is part of a complete catalog which contains technical and safety data that must be reviewed when selecting a product.



FLUID TRANSFER & REFRIGERANT

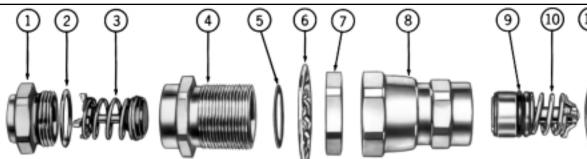
E400 Sarias	Coupling	Thread	Tube		Dime	nsional	Data			Part Number	Line
5400 Series	Size	Size (P)	O.D. Size	Α	B	$\sqrt{1}$	$\sqrt{2}$	35		Neoprene	Ref
Female Half	-4		1/4	1.57	.83	.63	.75	.63	5	401–S14–4–4	1
Braze Tubing Adapter	-4		³ /8	1.57	.83	.63	.75	.63	5	401–S14–6–4	2
	-8		³ /8	2.00	1.31	1.00	1.19	1.00	5	5401-S14-4-4 5401-S14-6-4 5401-S14-6-8 5401-S14-10-12 5401-S14-12-12 5401-S14-12-12 5401-S14-16-16 5401-S14-16-16 5401-4-4 5401-6-4 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5401-10-12 5400-S8-4 5400-S8-4 5400-S8-12 5400-S8 202220-6-4S 202220-8-8S B 202220-10-12S B 202220-12-12S <	3
	-8		1/2	2.00	1.31	1.00	1.19	1.00	Neoprene Second State <	4	
	-12		⁵ /8	2.88	1.80	1.38	1.63	1.38	5	401–S14–10–12	5
	-12		3/4	2.88	1.80	1.38	1.63	1.38	5	5401–S14–16–16 5401–4–4 5401–6–4 5401–6–8 5401–8–8 5401–10–12 5401–12–12 5401–12–12 5401–16–16 Dust Plug with Gasket 5400–S8–4 5400–S8–8 5400–S8–12	
	-16		1	3.34	2.24	1.75	2.00	1.75	5	401–S14–16–16	7
λ <u>α</u> , <u>λ</u> 2/											8
Complete Coupling	-4		1/4	2.82					5	401–4–4	9
Braze Tubing Adapter	-4		³ /8	2.82			5401–6–4			401–6–4	10
	-8		3/8	3.37					5	11	
	-8		1/2	3.37					5	5401–8–8	
	-12		⁵ /8	4.76					5	401–10–12	13
	-12		3/4	4.76					5	401–12–12	14
	-16		1	5.52					5	401–16–16	15
Accessories					Dust C	ap with	Gasket	ket Dust Plug with Gasket			
	-4									18	
Dust Cap Dust Plug	-8				5	400–S6	-8			5400–S8–8 5400–S8–12	
	-12				5	400–S6)–S6–12 5400–S8–12			5400–S8–12	
	-16				5	400–S6	-16			5400–S8–16	21
											22
											23
											24
											25
Adapter					O-Ring			Brass		Steel	26
SAE 37° (JIC)	-4	7/16-20	1/4	2	2546-1	2	2022	20-4-4	3	202220-4-4S	27
	-4	⁹ /16 -18	3/8	2	2546-1	2	202220-6-4E		3	202220-6-4S	28
	-8	⁹ /16 -18	3/8	2	2546-1	7	202220-6-8E		3	202220-6-8S	29
	-8	³ /4-16	1/2	2	2546-1	7	2022	20-8-8	3	202220-8-8S	30
	-12	7/8-14	⁵ /8	2	2546-2	3	2022	20–10–	12B	202220-10-12S	31
P L	-12	1 ¹ / ₁₆ -12	3/4	2	2546-2	3	2022	20–12–	12B	202220-12-12S	32
O-Ring Required	-16	15/16-12	1	2	2546-2	28	2022	20–16–′	16B	202220–16–16S	33
Adapter–Braze								Brass			34
	-4	¹ /2-20	1/4	2	2546-1	2	2022	08–4–41	3		35
	-8	7/8-20	1/2	2	2546-1	7	2022	08–8–81	3		36
	-12	1 ¹ / ₄ -18	5/8	2	2546-2	3	2022	08–10–	12B		37
O-Ring Required	-16	1 ¹⁹ / ₃₂ -20	7/8	2	2546-2	28	2022	08–14–′	16B		38
Hose Fitting			Hose Size	D						1	39
SAE 100R5 [†]	-4	1/2-20	-4	.92	2254	6–12			487–4–	4S	40
◆D•	-4	1/2-20	-6	.96		6–12					41
	-8	7/8-20	-6	.96		6–17					42
	-8	7/8-20	-8	1.06	-	6–17					43
	-12	1 ¹ / ₄ -18	-10	1.07		6–23					44
O-Ring Required	-16	1 ¹⁹ / ₃₂ -20	-16	1.01		6-28					45
†Additional dash styles available.				L		-	I		•	-	-

†Additional dash styles available.

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Assembly Instructions/Component Part Numbers



Typical Male Coupling Half (S2)

Assembly Instructions

Steps:

- 1. After tubing or hose has been connected to adapters ① and 12, install O-Rings 2 and 11^t on adapters. Be sure O-Rings are not twisted.
- 2. Oil O-Rings 2 and 1 liberally with system fluid to prevent them from scuffing and tearing when coupling body is threaded on adapter.
- 3. S2 Half-Lubricate poppet face with system fluid. Insert poppet valve assembly 3 into body 4. Tighten body 4 on adapter ①. After body and adapter make metal-to-metal contact, tighten by rotating body (4)¹/⁸" with respect to adapter () or torque per table value.

S5 Half—Oil O-Ring (9[†] liberally with system fluid. Insert valve and sleeve assembly (1) into body (8). Tighten body (8) on adapter 2 After body and adapter make metal-tometal contact, tighten by rotating body (8)¹/₈" with respect to adapter 12 or torque per table value.

4. Coupling Connection—Lubricate gasket seal 5 on 5400-S2 half with system fluid. Thread union nut (8) on 5400-S2 half. Tighten union nut to torgue values shown in Table. Be sure S2 and S5 bodies do not rotate during connection.

Typical Female Coupling Half (S5)

Bulkhead Mounting—S2 Half

Install lock washer (6) on S2 half. Insert S2 half through bulkhead, and tighten jam nut ⑦ so that lock washer teeth are fully compressed.

NOTE: Lock washer @must be between hex of S2 half and bulkhead.

Maximum Bulkhead Thickness

Coupling Size	Lock Washer Installed	Lock Washer Not Used
-4	.206	.256
-8	.136	.203
-12	.232	.292
-16	.101	.161

Torque Values

Recommended torque values in ft. lbs., are listed below.

	Adapter to Body							
Dash Size	Braze Type or Aluminum	Non-braze Type Steel or Brass	S2 Half to S5 Half					
-4	6–8	12–15	10–12					
-8	15–20	35–45	35–37					
-12	35–40	45–55	45–47					
-16	50–60	55–65	65–67					

†IMPORTANT: Generous lubrication is required for all gaskets and O-Rings. Use refrigeration oil only when used in refrigerant system.

	Dash Size→	-4	-8	-12	-16	Line
Item No.	O.D. Tube Size→	¹ / ₄ "— ³ / ₈ "	¹ / ₄ "— ⁵ / ₈ "	⁵ /8"— ⁷ /8"	⁷ /8"–1 ³ /8"	Ref.
	Typical Male Half					1
1	Tubing Adapter	202208-*-4	202208-*-8	202208-*-12	202208-*-16	2
2	O-Ring	22546–12	22546–17	22546–23	22546–28	3
3	Poppet Valve Assembly	5400-S20-4	5400–S20–8	5400-S20-12	5400–S20–16	4
4	Body	5400–17–4	5400–17–8	5400-17-12	5400–17–16	5
5	Gasket Seal	22008–4	22008–8	22008–12	22008–16	6
6	Lock Washer	5400–54–4S	5400–54–8S	5400–54–12S	5400–54–16S	7
7	Jam Nut	5400–53–4S	5400–53–8S	5400–53–12S	5400–53–16S	8
	Typical Female Half					9
8	Union Nut and Body Assembly	5400-S16-4	5400–S16–8	5400-S16-12	5400-S16-16	10
9	O-Ring	22546-10	22546–112	22546–116	22546–214	11
10	Valve and Sleeve Assembly	5400-S19-4	5400–S19–8	5400-S19-12	5400–S19–16	12
11	O-Ring	22546–12	22546–17	22546–23	22546–28	13
12	Tubing Adapter	202208-*-4	202208-*-8	202208-*-12	202208-*-16	14

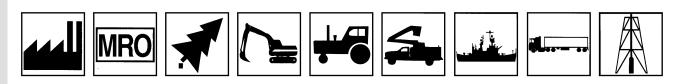
Component Part Numbers

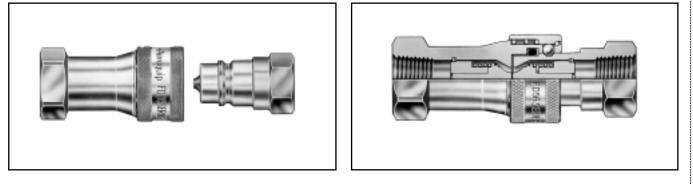
*Specify O.D. Tubing size of adapter required in 16th of an inch. Example: -4 coupling with 3/8" O.D. tubing is 6/16 or -6. Part number is then 202208-6-4.



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5600 Series/Industrial Interchange (Series A)





The 5600 Series general purpose coupling features a PUSH-PULL[™] latch and poppet valving in a low profile design. It is a favorite in North America and abroad.

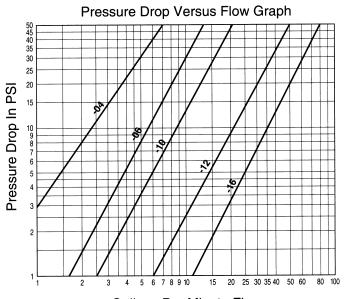
- PUSH-PULL[™] ball latch design allows quick and easy • connection and disconnection of fluid lines.
- Self-sealing poppet valve provides excellent high and low pressure sealing.
- Conforms dimensionally to ISO standard 7241/1 Series A.
- Streamlined valving provides minimum pressure drop.
- Standard seal materials Buna-N, EPR and Viton*.
- Standard body material - Zinc plated steel with Zinc poppet guides. (Brass poppet guide in -04 size.)
- Safety sleeve lock available. Contact Eaton Aeroquip for • details.

	Jorour	onara				
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)		Fluid Loss (cc. max.)
-04	5,000	15,000	28	1	.50	.50
-06	4,000	12,000	28	6	1.5	1.3
-10	4,000	12,000	28	12	2.8	2.8
-12	4,000	12,000	28	28	10.0	8.2
-16	4,000	12,000	28	50	14.2	14.2

Physical Characteristics

*Viton is a DuPont trademark.

Flow Data



Gallons Per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil At 100° F.)

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5600 Series	Coupling	Thread	Dime	ensiona	-		Part Number		L
	Size	Size (P)	Α	В	$\sqrt{1}$	Buna-N	Viton*	EPR	R
Male Half	-04	¹ /8-27	1.17		.56	5602–2–4S	FD56-1062-02-04	5644–2–4S	
Female Pipe/Valved	-04	¹ /4-18	1.24		.75	5602–4–4S	FD56-1062-04-04	5644–4–4S	1
	-06	³ /8-18	1.40		.88	5602–6–6S	FD56-1062-06-06	5644–6–6S	t
	-10	¹ /2 -14	1.89		1.06	5602-8-10S	FD56-1062-08-10	5644–8–10S	T
	-10	³ /4-14	2.03		1.38	5602-12-10S	FD56-1062-12-10	5644–12–10S	t
	-12	³ /4-14	2.28		1.38	5602-12-12S	FD56-1062-12-12	5644–12–12S	T
Ĺ)	-16	1-11 ¹ /2	2.77		1.62	5602–16–16S	FD56-1062-16-16	5644–16–16S	T
									T
Female Half	-04	¹ /8-27	1.81	1.08	.88	5601–2–4S	FD56-1064-02-04	5643–2–4S	T
Female Pipe/Valved	-04	¹ /4-18	1.81	1.08	.88	5601–4–4S	FD56-1064-04-04	5643–4–4S	
►A►	-06	³ /8-18	2.15	1.23	1.00	5601–6–6S	FD56-1064-06-06	5643–6–6S	
	-10	¹ /2 -14	2.61	1.50	1.19	5601-8-10S	FD56-1064-08-10	5643–8–10S	
Б	-10	³ /4-14	2.61	1.50	1.31	5601–12–10S	FD56-1064-12-10	5643–12–10S	
	-12	³ /4-14	3.25	1.81	1.50	5601–12–12S	FD56-1064-12-12	5643–12–12S	
(I)	-16	1-11 ¹ / ₂	3.82	2.10	1.69	5601–16–16S	FD56-1064-16-16	5643–16–16S	
Complete Coupling	-04	¹ /8-27	2.42			5600–2–4S	FD56-1065-02-04	5642–2–4S	
Female Pipe/Valved	-04	¹ /4-18	2.49			5600-4-4S	FD56-1065-04-04	5642–4–4S	
	-06	³ /8-18	2.80			5600-6-6S	FD56-1065-06-06	5642–6–6S	
	-10	¹ /2 -14	3.78			5600-8-10S	FD56-1065-08-10	5642-8-10S	
	-10	³ /4-14	4.06			5600-12-10S	FD56-1065-12-10	5642–12–10S	
	-12	³ /4-14	4.46			5600-12-12S	FD56-1065-12-12	5642–12–12S	
	-16	1-11 ¹ /2	5.54			5600–16–16S	FD56-1065-16-16	5642–16–16S	
Male Half/Female Pipe	-04	¹ /8-27	1.17		.56	FD56-1037-02-04	FD56-1037-02-04	FD56-1037-02-04	L :
Non-Valved ◄────A───►	-04	¹ /4-18	1.24		.75	FD56-1037-04-04	FD56-1037-04-04	FD56-1037-04-04	L I
	-06	³ /8-18	1.40		.88	FD56-1037-06-06	FD56-1037-06-06	FD56-1037-06-06	5
	-10	¹ /2 -14	1.89		1.06	FD56-1037-08-10	FD56-1037-08-10	FD56-1037-08-10)
	-10	³ /4-14	2.03		1.38	FD56-1037-12-10	FD56-1037-12-10	FD56-1037-12-10)
	-12	³ /4-14	2.28		1.38	FD56-1037-12-12	FD56-1037-12-12	FD56-1037-12-12	2
	-16	1-11 ¹ / ₂	2.77		1.62	FD56-1037-16-16	FD56-1037-16-16	FD56-1037-16-16	3
Will not operate with valved coupling halves. No valve actuator.									
Female Half/Female Pipe	-04	¹ /8-27	1.81	1.08	.88	FD56-1225-02-04	FD56-1207-02-04	FD56-1204-02-04	Ļ
Non-Valved	-04	¹ /4-18	1.81	1.08	.88	FD56-1225-04-04	FD56-1207-04-04	FD56-1204-04-04	t :
	-06	³ /8-18	2.15	1.23	1.00	FD56-1225-06-06	FD56-1207-06-06	FD56-1204-06-06	5
	-10	¹ /2 -14	2.61	1.50	1.19	FD56-1225-08-10	FD56-1207-08-10	FD56-1204-08-10)
	-10	³ /4 -14	2.61	1.50	1.31	FD56-1225-12-10	FD56-1207-12-10	FD56-1204-12-10)
	-12	³ /4 -14	3.25	1.81	1.50	FD56-1225-12-12	FD56-1207-12-12	FD56-1204-12-12	2
Will not opprate with valued equality	-16	1-11 ¹ / ₂	3.82	2.10	1.69	FD56-1225-16-16	FD56-1207-16-16	FD56-1204-16-16	5
Will not operate with valved coupling halves. No valve actuator.									
Repair Kit									
Each kit will repair one male or	-04					FF082-04†	FF092-04†	FF093–04†	
female half.	-06					FF082–06	FF092–06	FF093–06	
	-10					FF082–10	FF092–10	FF093–10	
This size repair kit contains an interface	-12					FF082–12	FF092–12	FF093–12	4
seal and back-up ring.	-16		l	1	1	FF082–16	FF092–16	FF093–16	



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Aeroquip

5600 Series	Coupling	Thread	Dime	nsiona	l Data		Part Number		Line
Sour Series	Size	Size (P)	Α	В	(1)	Buna-N	Viton*	EPR	Ref.
Complete Coupling/Non–Valved	-04	¹ /8-27	2.42			FD56-1226-02-04	FD56-1208-02-04	FD56-1205-02-04	1
Female Pipe	-04	¹ /4-18	2.49			FD56-1226-04-04	FD56-1208-04-04	FD56-1205-04-04	2
	-06	³ /8-18	2.80			FD56-1226-06-06	FD56-1208-06-06	FD56-1205-06-06	3
► A	-10	¹ /2 -14	3.78			FD56-1226-08-10	FD56-1208-08-10	FD56-1205-08-10	4
	-10	³ /4-14	4.06			FD56-1226-12-10	FD56-1208-12-10	FD56-1205-12-10	5
	-12	³ /4-14	4.46			FD56-1226-12-12	FD56-1208-12-12	FD56-1205-12-12	6
	-16	1-11 ¹ /2	5.54			FD56-1226-16-16	FD56-1208-16-16	FD56-1205-16-16	7
									8
Male Half/Female Pipe	-04	¹ /8-27	1.17		.56	FD56-1125-02-04	FD56-1125-02-04	FD56-1125-02-04	9
Pusher Style Valving	-04	¹ /4 -18	1.24		.75	FD56-1125-04-04	FD56-1125-04-04	FD56-1125-04-04	10
A	-06	³ /8-18	1.40		.88	FD56-1125-06-06	FD56-1125-06-06	FD56-1125-06-06	11
	-10	¹ /2 -14	1.89		1.06	FD56-1125-08-10	FD56-1125-08-10	FD56-1125-08-10	12
비미나	-10	³ /4-14	2.03		1.38	FD56-1125-12-10	FD56-1125-12-10	FD56-1125-12-10	13
The second se	-12	³ /4-14	2.28		1.38	FD56-1125-12-12	FD56-1125-12-12	FD56-1125-12-12	14
	-16	1-11 ¹ /2	2.77		1.62	FD56-1125-16-16	FD56-1125-16-16	FD56-1125-16-16	15
Incorporates a pusher device to open mating valved coupling halves.									16
Female Half/Female Pipe	-04	¹ /8-27	1.81	1.08	.88	FD56-1123-02-04	FD56-1201-02-04	FD56-1196-02-04	17
Pusher Style Valving	-04	¹ /4-18	1.81	1.08	.88	FD56-1123-04-04	FD56-1201-04-04	FD56-1196-04-04	18
• A•	-06	³ /8-18	2.15	1.23	1.00	FD56-1123-06-06	FD56-1201-06-06	FD56-1196-06-06	19
	-10	¹ /2 -14	2.61	1.50	1.19	FD56-1123-08-10	FD56-1201-08-10	FD56-1196-08-10	20
	-10	³ /4-14	2.61	1.50	1.31	FD56-1123-12-10	FD56-1201-12-10	FD56-1196-12-10	21
	-12	³ /4-14	3.25	1.81	1.50	FD56-1123-12-12	FD56-1201-12-12	FD56-1196-12-12	22
	-16	1-11 ¹ / ₂	3.82	2.10	1.69	FD56-1123-16-16	FD56-1201-16-16	FD56-1196-16-16	23
Incorporates a pusher device to open mating valved coupling halves.									24
Female Half/Female Pipe	-10	¹ /2 -14	2.88	1.52	1.06	5651–8–10S	FD56-1070-08-10	565007–8–10S	25
Connect Under Pressure Style	-10	³ /4 -14	3.30	1.22	1.25	5651-12-10S	FD56-1070-12-10	565007–12–10S	26
A									27
									28
									29
									30
									31
									32
Complete Coupling/Female Pipe Connect Under Pressure Style	-10	¹ /2 -14	3.89			5650-8-10S	FD56-1071-08-10	565006-8-10S	33
Connect Under Pressure Style	-10	³ /4-14	4.45			5650–12–10S	FD56-1071-12-10	565006–12–10S	34
•A•									35
									36
									37
									38
									39
									40
Repair Kit									41
Each kit will repair one male or female half.	-04					FF082-04†	FF092-04†	FF093-04†	42
	-06					FF08206	FF092-06	FF093-06	43
	-10					FF082–10	FF092–10	FF093–10	44
+ This size repair life sectors an interface of	-12					FF082–12	FF092–12	FF093–12	45
† This size repair kit contains an interface seal and back-up ring.	-16					FF082–16	FF092–16	FF093–16	46

*Viton is a DuPont trademark.

Aeroquip



5600 Series	Coupling	Thread	Dime	ensiona	l Data	Part Number			
	Size	Size (P)	Α	В	(1)	Buna-N	Viton*	EPR	Ref
Male Half	-04	⁷ / ₁₆ -20	1.28		.62	5610-4-4S	FD56-1072-04-04	560078-4-4S	1
Female SAE O-Ring/Valved	-06	⁹ /16 -18	1.50		.88	5610-6-6S	FD56-1072-06-06	560078-6-6S	2
ا <u>د م</u>	-10	³ /4-16	2.03		1.06	5610-8-10S	FD56-1072-08-10	560078-8-10S	3
	-10	7/8-14	2.08		1.12	5610-10-10S	FD56-1072-10-10	560078-10-10S	4
	-10	1 ¹ /16-12	2.26		1.38	5610-12-10S	FD56-1072-12-10	560078-12-10S	5
LULL	-12	11/16-12	2.55		1.38	5610–12–12S	FD56-1072-12-12	560078–12–12S	6
ক্র	-16	15/16-12	3.10		1.62	5610–16–16S	FD56-1072-16-16	560078–16–16S	7
									8
Female Half	-04	⁷ / ₁₆ -20	1.81	1.08	.88	5608-4-4S	FD56-1074-04-04	FD56-1012-04-04	9
Female SAE O-Ring/Valved	-06	⁹ / ₁₆ -18	2.11	1.27	1.00	5608-6-6S	FD56-1074-06-06	FD56-1012-06-06	-
· · ·	-10	³ / ₄ -16	2.76	1.52	1.19	5608-8-10S	FD56-1074-08-10	FD56-1012-08-10	
	-10	⁷ /8-14	2.81	1.52	1.19	5608–10–10S	FD56-1074-10-10	FD56-1012-10-10	
	-10	⁷⁸ 14 1 ¹ /16-12	3.00	1.52	1.31	5608–12–10S	FD56-1074-12-10		
	-12	1 ¹ /16-12	3.25	1.84	1.50	5608-12-12S	FD56-1074-12-12	FD56-1012-12-12	
	-12	1 ⁵ /16-12	3.83	2.15	1.88	5608–12–123 5608–16–16S	FD56-1074-12-12 FD56-1074-16-16	FD56-1012-12-12 FD56-1012-16-16	
(1)	-10	I /16 ⁻ IZ	0.00	2.13	1.00	10-10-10-			16
	-04	⁷ /16 -20	2.53			5606-4-4S	FD56-1075-04-04	FD56-1009-04-04	-
Complete Coupling Female SAE O-Ring/Valved		⁹ /16-20	2.55			5606-6-6S	FD56-1075-06-06	FD56-1009-06-06	
9	-06		3.78						-
A	-10	³ /4-16				5606-8-10S	FD56-1075-08-10		
	-10	7/8-14	3.88			5606-10-10S	FD56-1075-10-10	FD56-1009-10-10	-
	-10	1 ¹ / ₁₆ -12	4.24			5606-12-10S	FD56-1075-12-10	FD56-1009-12-10	
	-12	11/16-12	4.46			5606-12-12S	FD56-1075-12-12	FD56-1009-12-12	
	-16	15/16-12	5.54			5606–16–16S	FD56-1075-16-16	FD56-1009-16-16	
									24
Male Half Female SAE O-Ring/Non-Valved	-04	7/16-20	1.21	.72	.62		FD56-1221-04-04	FD56-1221-04-04	-
remaie SAL O-King/Non-Valved	-06	⁹ / ₁₆ -18	1.42	.73	.88		FD56-1221-06-06	FD56-1221-06-06	-
	-10	³ /4 -16	1.89	1.02	1.06		FD56-1221-08-10	FD56-1221-08-10	-
hirt A	-10	7/8-14	1.94	1.07	1.12		FD56-1221-10-10	FD56-1221-10-10	28
	-10	11/16-12	2.12	1.24	1.38	FD56-1221-12-10	FD56-1221-12-10	FD56-1221-12-10	29
	-12	11/16-12	2.28	1.21	1.38	FD56-1221-12-12	FD56-1221-12-12	FD56-1221-12-12	30
Will not operate with valved coupling halves.	-16	15/16-12	2.77	1.45	1.62	FD56-1221-16-16	FD56-1221-16-16	FD56-1221-16-16	-
No valve actuator.									32
Female Half	-04	⁷ / ₁₆ -20	1.81	1.08	.88	5691–4–4S	FD56-1233-04-04	FD56-1209-04-04	33
Female SAE O-Ring/Non-Valved	-06	⁹ /16 -18	2.11	1.27	1.06	569166S	FD56-1233-06-06	FD56-1209-06-06	34
	-10	³ /4-16	2.76	1.52	1.25	5691-8-10S	FD56-1233-08-10	FD56-1209-08-10	35
	-10	⁷ /8-14	2.81	1.52	1.25	5691–10–10S	FD56-1233-10-10	FD56-1209-10-10	36
	-10	11/16-12	3.00	1.52	1.38	5691-12-10S	FD56-1233-12-10	FD56-1209-12-10	37
	-12	1 ¹ / ₁₆ -12	3.25	1.84	1.50	5691–12–12S	FD56-1233-12-12	FD56-1209-12-12	38
λ / λ Will not operate with valued coupling values	-16	15/16-12	4.09	2.15	1.88	5691–16–16S	FD56-1233-16-16	FD56-1209-16-16	39
Will not operate with valved coupling valves. No valve actuator.									40
Repair Kit									41
Each kit will repair one male or female half.	-04					FF082-04†	FF092-04†	FF093-04†	42
	-06					FF082-06	FF092-06	FF093-06	43
	-10					FF082-10	FF092-10	FF093–10	44
	-12					FF082-12	FF092-12	FF093–12	45
† This size repair kit contains an interface seal	-16			1	<u> </u>	FF082–16	FF092–16	FF093–16	46

*Viton is a DuPont trademark.



5600 Series	Coupling	Thread	d Dimensional Dat				Part Number		Line
5600 Series	Size	Size (P)	A	B		Buna-N	Viton*	EPR	Ref.
Complete Coupling	-04	⁷ / ₁₆ -20	2.53			5690-4-4S	FD56-1234-04-04	FD56-1210-04-04	1
Female SAE O-Ring/Non-	-06	⁹ / ₁₆ -18	2.84			5690-6-6S	FD56-1234-06-06	FD56-1210-06-06	2
Valved	-10	³ /4-16	3.78			5690-8-10	FD56-1234-08-10	FD56-1210-08-10	3
	-10	⁷ /8-14	3.88			5690–10–10S	FD56-1234-10-10	FD56-1210-10-10	4
	-10	1 ¹ / ₁₆ -12	4.24			5690–12–10S	FD56-1234-12-10	FD56-1210-12-10	5
	-12	1 ¹ / ₁₆ -12	4.46			5690–12–12S	FD56-1234-12-12	FD56-1210-12-12	6
	-16	15/16-12	5.54			5690–16–16S	FD56-1234-16-16	FD56-1210-16-16	7
Will not operate with valved coupling halves.									8
Female Half/Female SAE	-10	³ /4 -16	2.88	1.52	1.06	5668-8-10S	FD56-1081-8-10	565015-8-10S	9
O-Ring Connect Under	-10	⁷ /8 -14	3.19	1.52	1.12	5668–10–10S	FD56-1081-10-10	565015–10–10S	10
Pressure	-10	1 ¹ / ₁₆ -12	3.38	1.52	1.38	5668–12–10S	FD56-1081-12-10	565015-12-10S	11
▲ — A — →									12
									13
B									14
					+				15
									16
Complete Coupling/Female	-10	³ /4-16	3.88			5667-8-10S	FD56–1082–8–10	565014-8-10S	17
Complete Coupling/Female SAE O-Ring Connect Under	-10	⁷ /8-14	4.25			5667–10–10S	FD56-1082-10-10		18
Pressure	-10	⁷⁸ 1 ⁴ 1 ¹ / ₁₆ -12	4.62			5667–12–10S	FD56-1082-12-10		19
1	10	1/10-12	4.02			3007 12 100	1000 1002 12 10	303014 12 100	20
•A•									20
									21
									22
									23 24
Repair Kit									24 25
Each kit will repair one male or female	0.4					55000 041	55000.041	55000 041	-
half.	-04					FF082-04†	FF092-04†	FF093-04†	26
	-06					FF082-06	FF092-06	FF093-06	27
	-10					FF082-10	FF092-10	FF093-10	28
†This size repair kit contains an interface	-12					FF082–12	FF092-12	FF093-12	29
seal and back-up ring.	-16					FF082–16	FF092–16	FF093–16	30
Accessories									31
Dust Cap	-04						5657-4		32
\cap	-06						5657–6		33
C.	-10						5657–10		34
	-12						5657–12		35
•	-16				\mid		5657–16		36
Dust Plug	-4				 		5659–4		37
\frown	-6						5659–6		38
67	-10						5659–10		39
N	-12						5659–12		40
-	-16						5659–16		41
Break Away Frame	-10						5603		42
Gen									43
2									44
20									45
				I –	1 E				46

*Viton is a DuPont trademark.

Aeroquip



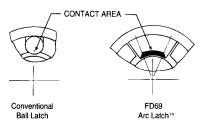
FD69 Series/Arc Latch[™]—High Pressure Water Blast (10,000 psi)





The FD69 Series "Arc Latch[™]" design has a greater surface contact area for long service life in rugged high-pressure and water blast applications. The maximum operating pressure is 10,000 psi with 40,000 psi minimum burst pressure.

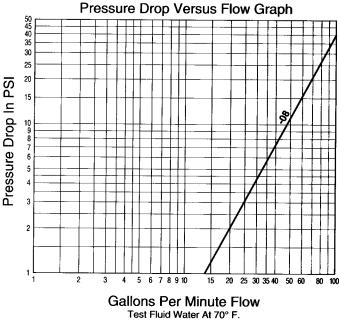
- Safety sleeve lock guards against accidental disconnection.
- Smooth bore "straight through" design for high flow.
- Heavy duty back-up ring to prevent O-Ring extrusion.
- Available in plated steel and stainless steel for added corrosion resistance.
- Standard seal material Buna-N.
- Standard body material Zinc plated steel, Stainless steel.



Physical Characteristics

Coupling Dash Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max
-08	10,000	40,000	28	45	-	-

Flow Data



Viscosity .0085 Centistrokes Specific Gravity .9954



WATER BLAST

FD69 Series	Coupling			Dimer	sional	Data		Part Number		Line	
I DOJ CENES	Size	Size (P)	Size(P1)	Α	В	$\sqrt{1}$	Buna-N	Viton*	EPR	Ref.	
		Steel								1	
Male Half/Female Pipe	-08	³ /8-18		1.85	1.64	1.00	FD69-1002-06-08	FD69-1002-06-08	FD69-1002-06-08	2	
	-08	¹ /2-14		2.34	1.64	1.12	FD69-1002-08-08	FD69-1002-08-08	FD69-1002-08-08	3	
										4	
	Stainless Steel										
	-08	¹ /2-14		2.34	1.64	1.12	FD69-1012-08-08	FD69-1012-08-08	FD69-1012-08-08	6	
										7	
										8	
		Steel								9	
Female Half/Female Pipe	-08	³ /8-18		2.13	1.62	1.25	FD69-1001-06-08	FD69-1026-06-08	FD69-1028-06-08	10	
	-08	¹ /2-14		2.13	1.62	1.25	FD69-1001-08-08	FD69-1026-08-08	FD69-1028-08-08	11	
← A										12	
	Stai	inless S	iteel							13	
	-08	¹ /2-14		2.13	1.62	1.25	FD69-1011-08-08			14	
										15	
~										16	
Complete Coupling		Steel							-	17	
Female Pipe	-08	¹ /2 -14	¹ /2 -14	3.43			FD69-1000-080808	FD69-1027-080808	FD69-1029-080808	18	
	-08	¹ /2-14	³ /8-18	3.43			FD69-1000-080806	FD69-1027-080806	FD69-1029-080806	19	
• A•	-08	³ /8-18	¹ /2 -14	2.94			FD69-1000-060808	FD69-1027-060808	FD69-1029-060808	20	
	-08	³ /8-18	³ /8-18	2.94			FD69-1000-060806	FD69-1027-060806	FD69-1029-060806	21	
	Stai	nless S	iteel							22	
	-08	¹ /2-14	¹ /2 -14	3.43			FD69-1010-080808			23	
										24	
Repair Kit	Fema	ale Inte	face Se	al Kit						25	
	-08						FF10166			26	

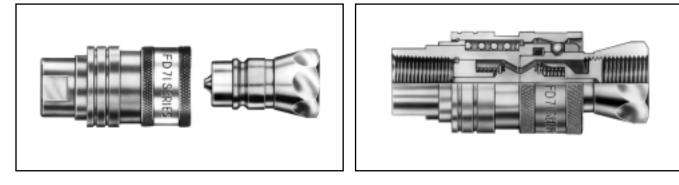
*Viton is a DuPont trademark.

₹Aeroquip



FD71 Series/Push-to-Connect Farm





The FD71 Series coupling is designed to interchange with male tips made to ISO 5675 specifications. It features one hand push-to-connect latching. The maximum operating pressure is 3,000 psi.

- Self-sealing poppet valve construction provides reliable leak-free service.
- Push-to-connect for one-hand operation when sleeve is mounted.
- Retaining ring groove on female half for bulkhead and break-away frame mounting.
- Standard seal material Buna-N.

Physical Characteristics

Burst

Pressure

(psi)

12,000

Vacuum

(in./Hg.)

28

Maximum Minimum

Operating

Pressure

(psi)

3,000

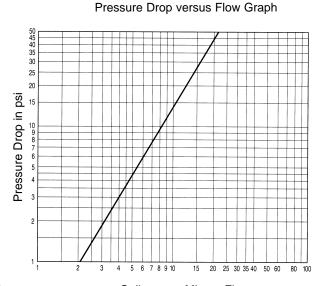
Coupling

Size

-10

 Standard body material – Zinc plated steel with Zinc poppet guide.

Flow Data



Gallons per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil at 100°F)

Air

(cc. max.)

2.8

Rated Flow Inclusion

(gpm)

16

Fluid

Loss

(cc. max.)

2.8



HYDRAULIC FARM

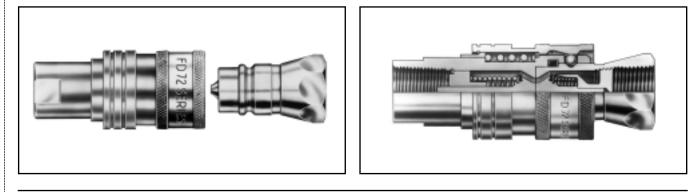
	Coupling	Thread	Dimensional Data						Part Number	Line
FD71 Series	Size	Size (P)	Α	в	С	D	Е	<u>(1)</u>	Buna-N	Ref.
Male Half	-10	¹ /2 -14	2.05					1.06	FD76-1002-08-10	1
Female Pipe/Valved										2
A										3
										4
										5
										6
										7
15										8
Female Half	-10	¹ /2-14	2.74	1.52	1.50	1.41	.20	1.00	FD71-1001-08-10	9
Female Pipe/Valved										10
• A•										11
										12
										13
										14
										15
<u> </u>										16
Accessories										17
Dust Cap	-10								5657–10	18
										19
										20
										21
()										22
										23
										24
Dust Plug	-10								5659–10	25
										26
										27
$\langle \rangle$										28
										29
										30
										31
										32
Break Away Frame	-10								5603	33
										34
AG										35
										36
261										37
										38
**										39
*										40

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FD72 Series/Connect Under Pressure—Farm



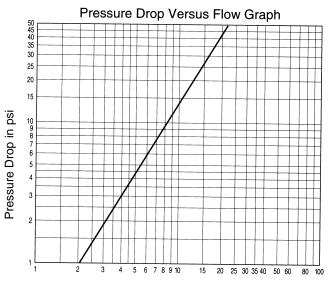


The FD72 Series coupling incorporates special valving allowing connection to a male half under pressure (FD76 Series male). The maximum operating pressure is 3,000 psi.

- Over travel, self-sealing poppet valve construction for connecting to a pressurized male tip. Requires that the tractor control valve be actuated to open the flow path and to equalize the pressure.
- Push-to-connect for one-hand operation when sleeve is mounted.
- Interchanges with ISO 5675 male tips.
- Retaining ring groove on female half for bulkhead and breakaway frame mounting.
- Standard seal material Buna-N.
- Standard body material Zinc plated steel with zinc poppet guide.

Phys	ical Ch	aracte	ristic	S		
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in.Hg.)	Rated Flow (gpm)	Air Inclusion (cc.max.)	Fluid Loss (cc.max.)
-10	3,000	12,000	28	16	2.8	2.8

Flow Data



Gallons per Minute Flow (Test Fluid MIL-H-5606 Hydraulic Oil at 100°F)



HYDRAULIC FARM

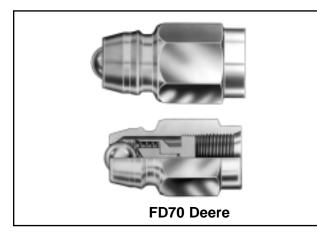
	Coupling	Thread		D	imens	ional I	Data		Part Number	Line
FD72 Series	Size	Size (P)	Α	В	С	D	Е	$\sqrt{1}$	Buna-N	Ref.
Male Half	-10	¹ /2 -14	2.05					1.06	FD76-1002-08-10	1
Female Pipe/Valved										2
- A										3
										4
										5
										6
LULL 27°										7
F										8
Female Half	-10	¹ /2 -14	3.17	1.52	1.50	1.41	.20	1.00	FD72-1001-08-10	9
Female Pipe/Valved		,								10
←A→										11
										13
										14
B P										15
	-									16
										17
Accessories										18
Dust Cap	-10								5657-10	19
Dust Cap	10								3007-10	20
										20
Ch al										22
										23
										23
Duct Dlug	-10								5659-10	24
Dust Plug	-10								3659-10	25
\frown										27
										28
										29
										30
										31
										32
Break Away Frame	-10								5603	33
										34
6.00										35
3						ļ				36
					<u> </u>	<u> </u>				37
						<u> </u>				38
10										39
										40

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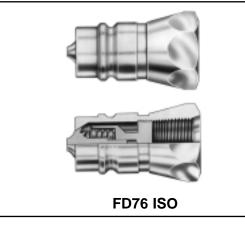


FD70 & FD76 Series/Male Tip—Farm





• Designed to connect with female couplings on most older style John Deere farm equipment.



• Interchanges with ISO 5675 used on most farm tractors found throughout North America and abroad.

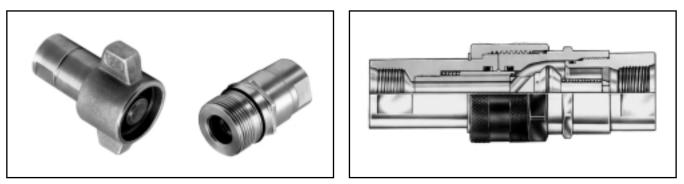
FD70 & FD76 Series	Coupling	Thread		nsional		Part Number	Line
	Size	Size (P)	Α	В	(1)	Buna-N	Ref.
Deere Male Half	-10	³ /4 -16	1.96		1.00	FD70-1010-08-10	1
Female SAE O-Ring/Ball Valve							2
							3
• A•							4
							5
							6
							7
ta ta							8
ISO Male Half	-10	¹ /2 -14	2.05		1.06	FD76–1002–08–10	9
Female Pipe/Poppet Valve							10
- A -							11
							12
							13
							14
							15
Ø							16
ISO Male Half	-10	³ /4 - 16	2.05		1.00	FD76–1010–08–10	17
Female SAE O-Ring/Poppet Valve							18
							19
							20
							21
							22
							23
西							24



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FD86 Series/5,000 PSI DryBreak—High Impulse



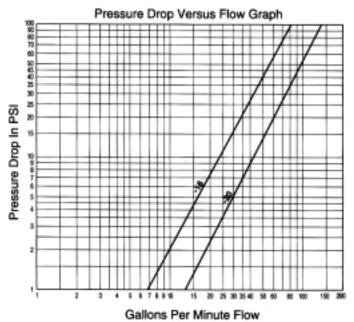
The FD86 Series is a thread together steel coupling offering dry break and high impulse technology and capabilities. The maximum operating pressure is 5,000 psi.

- Tubular valve and sleeve construction for low fluid loss and air inclusion.
- Thread together design using wing or hex nut allows connection and disconnection against pressures up to 750 psi.
- PTFE back-up rings along with secondary metal-tometal sealing contact provides high impulse capability up to 5,000 psi operating pressure.
- Acme threads prevent galling and provide ease of connection.
- Metal-to-metal sealing withstands +2,000°F for ten minutes with no fluid loss (requirement in California for oil field blow-out preventers).
- Steel flange available for bulkhead mounting.
- Standard seal material Buna-N.

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• Standard body material - Zinc plated steel.

Flow Data



(At 100 PSI Inlet Pressure)

Phy	Physical Characteristics											
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max.)						
-16	5,000	15,000	28	50	2.90	.72						
-20	5,000	15,000	28	75	4.61	1.0						



FD86 Series	Coupling	Thread	Dime	nsiona	l Data		Part Number		Line
FDoo Series	Size	Size (P)	Α	В	$\sqrt{1}$	Buna-N	Viton*	EPR	Ref.
Male Half	-16	15/16-12	4.03	2.11	1.75	FD86-1008-16-16	FD86-1043-16-16	FD86-1053-16-16	1
Female SAE O-Ring	-20	15/8-12	4.16	2.48	2.25	FD86-1008-20-20	FD86-1043-20-20	FD86-1053-20-20	2
A►									3
									4
									5
									6
<u>,</u> 1									7
		151 10							8
Female Half	-16	15/16-12	4.62	4.50	-	FD86-1010-16-16			-
Female SAE O-Ring/With Wing Nut	-20	15/8-12	5.22	5.25	2.00	FD86-1010-20-20	FD86-1044-20-20	FD86-1054-20-20	-
- −−−►									11
									12
									13
									14
									15
									16
Female Half	-16	15/16-12	4.62	2.81	1.62	FD86-1006-16-16	FD86-1042-16-16	FD86-1052-16-16	17
Female SAE O-Ring/With Hex Nut	-20	15/8-12	5.22	3.40	2.00	FD86-1006-20-20	FD86-1042-20-20	FD86-1052-20-20	18
									19
									20
									21
									22
									23
									24

*Viton is a DuPont trademark.



$\textcircled{\blue}{\blue}$ **Dimensional Data** Part Number **FD86 Series** Coupling Thread Line Size Size(P) $\langle 1 \rangle$ Viton* EPR Ref. в Buna-N Α -16 FD86-1050-16-16 Male Half 1-11¹/₂ 4.40 2.11 1.75 FD86-1002-16-16 FD86-1040-16-16 1 Female NPTF -20 2.25 FD86-1002-20-20 FD86-1040-20-20 FD86-1050-20-20 2 **1**¹/₄-**11**¹/₂ 4.43 2.48 3 4 5 В 6 7 8 -16 4.50 9 1-11¹/₂ 4.98 1.62 FD86-1001-16-16 FD86-1039-16-16 FD86-1049-16-16 Female Half Female NPTF/With Wing Nut -20 FD86-1001-20-20 FD86-1039-20-20 FD86-1049-20-20 10 **1**¹/₄-**11**¹/₂ 5.62 5.25 2.00 11 12 13 B 14 15 (†) 16 -16 **1-11**¹/₂ 4.98 2.81 1.62 FD86-1004-16-16 FD86-1041-16-16 FD86-1051-16-16 17 Female Half Female NPTF/With Hex Nut -20 **1**¹/₄-**11**¹/₂ FD86-1004-20-20 FD86-1041-20-20 FD86-1051-20-20 5.62 3.40 2.00 18 19 20 21 B 22 23 24 **Repair Kit** Male Half 26 -16 FF10596-16 FF10597-16 FF10598-16 27 -20 FF10596-20 FF10597-20 FF10598-20 28 29 Female Half -16 FF10593-16 FF10594-16 FF10595-16 30 -20 FF10593-20 FF10594-20 FF10595-20 31

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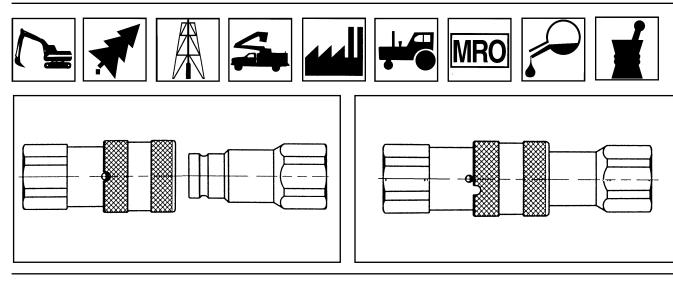
FD86 Ser	ies	Coupling	Dimensi	onal Size		Part Number		Line
	60	Dash Size	Α	В	Dust Cap with Chain	Dust Plug with Chain	6 Bolt Flange Assembly	
								1
Dust Cap	Dust Plug	-16			FD86–1018–16	FD86–1016–16		2
With Chain	With Chain	-20			FD86-1018-20	FD86-1016-20		3
Sec. >	0							4
1 8	Ann ()							5
1 8								6
1/								7
	1000							8
								9
6 Bolt	Flange	-16	.19	2.98			FD86–1035–16	10
Asse	embly [†]	-20	.19	3.50			FD86-1035-20	11
ADA 15								12
and the second second								13
								14
and the Mark	-							15
Die.								16

¹6 Bolt Flange-holes equally spaced. (See "A" for bolt hole diameter, and "B" for bolt circle diameter.)

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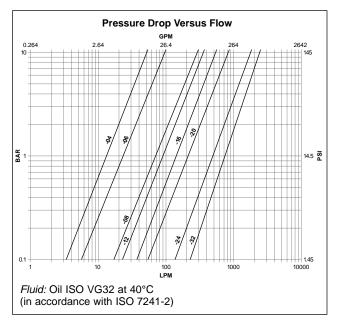


FD89 Series/ISO 16028 Interchange

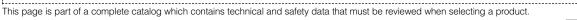


Aeroquip's FD89 Series is specifically designed for those applications where quick and easy connections and no-spill performance are essential. Ideal for use where global interchangeability with other manufacturers is important. The FD89 Series is available in sizes from 1/4" through 2" to best meet your specific size requirements.

- Globally accepted interface which meets dimensional requirements of ISO 16028 (1/4"-1").
- Quick and easy Push-to-Connect latching.
- Safety sleeve lock guards against accidental disconnections.
- The globally accepted interface meets HTMA requirements.
- Dual flush face valves result in minimal fluid loss, air inclusion, and easy cleaning.



Phy	Physical Characteristics												
Coupling Size	Maximum Operating Pressure Connected	Maximum Operating Pressure Male Half	Maximum Operating Pressure Female Half	Minimum Burst Pressure Connected	Minimum Burst Pressure Half Male	Minimum Burst Pressure Female Half	Rated Flow	Fluid Loss	Air Inclusion	Force To Connect (No Pressure)			
-04	4,350	4,350	1,740	17,400	17,400	6,960	3.2	0.006	0.005	40.2			
-06	4,350	4,350	1,740	17,400	17,400	6,960	6.1	0.012	0.280	38.9			
-08	3,625	3,625	1,450	14,500	14,500	5,800	11.9	0.020	0.040	40.7			
-12	3,625	3,190	1,450	14,500	12,760	5,800	19.5	0.026	0.270	43.8			
-16	3,625	2,900	1,450	14,500	11,600	5,800	26.4	0.032	0.040	50.4			
-20	3,625	2,900	1,450	14,500	11,600	5,800	49.9	0.010	0.140	68.3			
-24	2,900	2,320	1,160	11,600	9,280	4,640	76.1	0.050	0.980	96.0			
-32	2,900	2,320	1,160	11,600	9,280	4,640	100.0	NA	NA	110.0			





FLUSH FACE COUPLINGS

FD	NO Carles	Coupling	Thread	ad Dimensional Data					Line	
FD89 Series		Size	Size(P)	Α	В	$\sqrt{1}$	Buna-N	Viton*	EPR	Ref.
	Male Half	-04	1/4-18	1.89		0.87	FD89-1002-04-04			1
	Female Pipe/Valved	-06	³ /8-18	2.36		0.94	FD89-1002-06-06			2
		-06	¹ /2 -14	2.46		1.06	FD89-1002-08-06			3
	← — A — →	-08	¹ /2 -14	2.68		1.26	FD89-1002-08-08			4
		-08	³ /4-14	2.78		1.42	FD89-1002-12-08			5
		-12	³ /4-14	2.78		1.42	FD89-1002-12-12			6
┍╸		-16	1-11 ¹ /2	3.24		1.73	FD89-1002-16-16			7
	\uparrow	-20	1 ¹ /4-11 ¹ /2	3.54		2.17	FD89-1002-20-20			8
Þ	$\langle 1 \rangle$	-24	1 ¹ /2-11 ¹ /2	4.37		2.56	FD89-1002-24-24			9
		-32	2-11 ¹ / ₂	4.87		2.95	FD89-1002-32-32			10
	Female Half	-04	¹ /4-18	1.89	1.10	0.87	FD89-1001-04-04			11
	Female Pipe/Valved	-06	³ /8-18	2.53	1.26	1.06	FD89-1001-06-06			12
		-06	¹ /2 -1 4	2.72	1.26	1.06	FD89-1001-08-06			13
*		-08	¹ /2-14	2.91	1.50	1.26	FD89-1001-08-08			14
F		-08	³ /4-14	3.18	1.50	1.42	FD89-1001-12-08			15
F		-12	³ /4-14	3.09	1.65	1.42	FD89-1001-12-12			16
r→F		-16	1-11 ¹ /2	3.67	1.89	1.73	FD89-1001-16-16			17
		-20	1 ¹ / ₄ -11 ¹ / ₂	4.17	2.17	2.17	FD89-1001-20-20			18
Ρ́		-24	1 ¹ /2-11 ¹ /2	5.21	3.15	2.56	FD89-1001-24-24			19
		-32	2-11 ¹ / ₂	6.17	3.94	3.15	FD89-1001-32-32			20
	Male Half	-04	G 1/4	1.89		0.87	FD89-1007-04-04			21
	Female BSP/Valved	-06	G 3/8	2.36		0.94	FD89-1007-06-06			22
	1	-06	G 1/2	2.46		1.06	FD89-1007-08-06			23
	←A>	-08	G 1/2	2.68		1.26	FD89-1007-08-08			24
		-08	G 3/4	2.78		1.42	FD89-1007-12-08			25
		-12	G 3/4	2.78		1.42	FD89-1007-12-12			26
		-16	G 1	3.24		1.73	FD89-1007-16-16			27
	\uparrow	-20	G 1 ¹ / ₄	3.54		2.17	FD89-1007-20-20			28
Þ	$\langle 1 \rangle$	-24	G 1 ¹ / ₂	4.37		2.56	FD89-1007-24-24			29
		-32	G 2	4.87		2.95	FD89-1007-32-32			30
	Male Half	-04	G 1/4	1.89	1.10	0.87	FD89-1006-04-04			31
	Female BSP/Valved	-06	G 3/8	2.53	1.26	1.06	FD89-1006-06-06			32
		-06	G 1/2	2.72	1.26	1.06	FD89-1006-08-06			33
*	A	-08	G 1/2	2.91	1.50	1.26	FD89-1006-08-08			34
F		-08	G 3/4	3.18	1.50	1.42	FD89-1006-12-08			35
F	<u> </u>	-12	G ³ / ₄	3.09	1.65	1.42	FD89-1006-12-12			36
r₽E		-16	G 1	3.67	1.89	1.73	FD89-1006-16-16			37
		-20	G 1 ¹ /4	4.17	2.17	2.17	FD89-1006-20-20			38
Ρ́		-24	G 1 ¹ / ₂	5.21	3.15	2.56	FD89-1006-24-24			39
		-32	G 2	6.17	3.94	3.15	FD89-1006-32-32			40

*Viton is a DuPont trademark.

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FLUSH FACE COUPLINGS

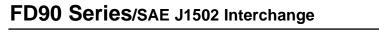


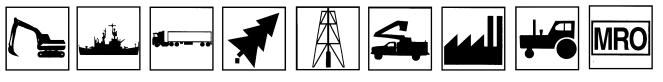
FD89 Series	Coupling Size		C	onnected Leng (NPT & BSP			Lir Re			
Connected	-04			3.37			· ·			
Dimensions	-06-06			4.29						
	-08-06			4.59						
L	-08-08			4.92						
	-12-08			5.30						
╡╴╻	-12			5.20						
	-16			6.06			+			
	-20			6.81			+			
	-24			8.46						
	-32	9.51								
FD89 Series	Coupling					Part	Li			
	Size	Α	В	C	D	Number	R			
Accessories	-04	1.26	1.50	9.41	0.79	FD89-1009-04				
Female Half Dust Cap PVC	-06	1.42	1.69	9.72	0.98	FD89-1009-06				
C	-08-08	1.65	1.81	10.10	0.98	FD89-1009-08-08	_			
	-12-08	1.65	1.81	10.20	1.18	FD89-1009-12-08	_			
⊢D→	-12	1.81	1.97	10.43	1.18	FD89-1009-12	_			
	-16	2.05	2.44	12.50	1.38	FD89-1009-16	_			
<a→< td=""><td>-20</td><td>2.36</td><td>2.68</td><td>13.20</td><td>1.77</td><td>FD89-1009-20</td><td>_</td></a→<>	-20	2.36	2.68	13.20	1.77	FD89-1009-20	_			
							+			
Famala Half Duat Can	-24	3.74	1.57	1.97	2.30	FD89-1009-24	+.			
Female Half Dust Cap Aluminum							-			
← C→	-32	4.53	1.57	1.97	2.95	FD89-1009-32				
							1			
							1			
À-∰arlint ∰ ṗ							1			
							1			
							1			
							ľ			
							1			
Male Half Dust Cap	-04	1.10	0.91	9.06	0.79	FD89-1008-04				
PVC	-06-06	1.26	1.10	9.17	0.79	FD89-1008-06-06				
	-08-06	1.26	1.10	9.25	0.98	FD89-1008-08-06				
←C	-08-08	1.50	1.22	9.76	0.98	FD89-1008-08-08				
	-12-08	1.50	1.22	9.76	1.18	FD89-1008-12-08				
B↓ ←D→	-12	1.65	1.10	10.10	1.18	FD89-1008-12				
← A→	-16 20	1.89	1.38	12.20	1.38	FD89-1008-16				
· ·	-20	2.17	1.52	12.80	1.77	FD89-1008-20				
Male Half Dust Cap	-24	2.76	1.57	1.97	2.30	FD89-1008-24				
Aluminum	-24 -32	3.35	2.05	2.44	2.30	FD89-1008-32				
← C→	-52	0.00	2.00	2.44	2.50	1 003-1000-32				
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				1	1					

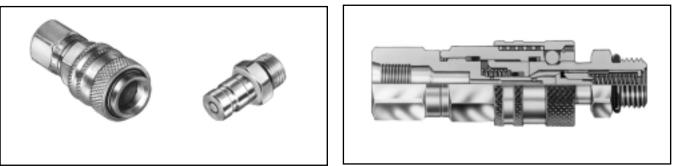
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The FD90 Series diagnostic coupling is designed to connect and disconnect pressure gauges to hydraulic systems, eliminating the need for permanent gauges. The maximum operating pressure is 7,000 psi.

- Automatic sleeve for one hand push-to-connect operation.
- Flush face valving provides minimal fluid loss and low air inclusion.
- Self-sealing valve design allows connection and disconnection at 500 psi.
- Broad range of end configurations for system accessibility.
- Standard seal material Buna-N.

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• Standard body material – Zinc plated steel.

Diagnostic Kit* – FF10000-02



*Contact Eaton Aeroquip for additional information.

Physical Characteristics											
Coupling Size	Maximum Operating Pressure (psi)	Minimum Burst Pressure (psi)	Vacuum (in./Hg.)	Rated Flow (gpm)	Air Inclusion (cc. max.)	Fluid Loss (cc. max.)					
-04	7,000	28,000	28	.50	0.02	0.10					



FD90 Series	Coupling Size	Thread Size (P)	Dimer A	nsional B	Data	Part Number Buna-N	Part Number with Dust Cap Buna-N	Li
Male Half	-04	1/8-27	1.70		.62	FD90-1034-02-04	FD90-1035-02-04	
Female Pipe/Valved	-04	1/4-18	1.90		.75	FD90–1034–04–04	FD90–1035–04–04	
								+
								1
Y1								
Male Half	-04	³ /8-24	1.52		.62	FD90-1044-03-04	FD90-1004-03-04	
Male SAE O-Ring/Valved	-04	⁷ / ₁₆ -20	1.58		.62	FD90-1044-04-04	FD90-1004-04-04	
⊸ A►	-04	¹ /2-20	1.32		.62	FD90-1044-05-04	FD90-1004-05-04	
	-04	⁹ /16 -18	1.32		.69	FD90-1044-06-04	FD90-1004-06-04	
μ γ γ γ γ γ γ γ γ γ γ γ γ γ								
<u>,/</u>								
Male Half	-04	¹ /8-27	1.60		.62	FD90-1012-02-04	FD90-1045-02-04	
Male Pipe/Valved	-04	¹ /4 -18	1.49		.69	FD90-1012-04-04	FD90-1045-04-04	
A►								
<u>\'</u> A								
Male Half	-04	M14x1.5	1.38		.75	FD90-1046-06-04	FD90-1047-06-04	
Metric Male O-Ring/Valved								
<a►< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></a►<>								
λ.								
Female Half	-04	1/8-27	1.95	1.00	.75	FD90-1021-02-04	Dust Cap for Male Halves	
Female Pipe/Valved	-04	¹ /4-18	2.25	1.00	.75	FD90-1021-04-04	– FD90–1040–04	
							_	
A							_	
		7/ 00	0.02	4.00			_	
Female Half	-04	⁷ / ₁₆ -20	2.20	1.00	.75	FD90-1041-04-04	_	
Female SAE O-Ring/Valved							_	
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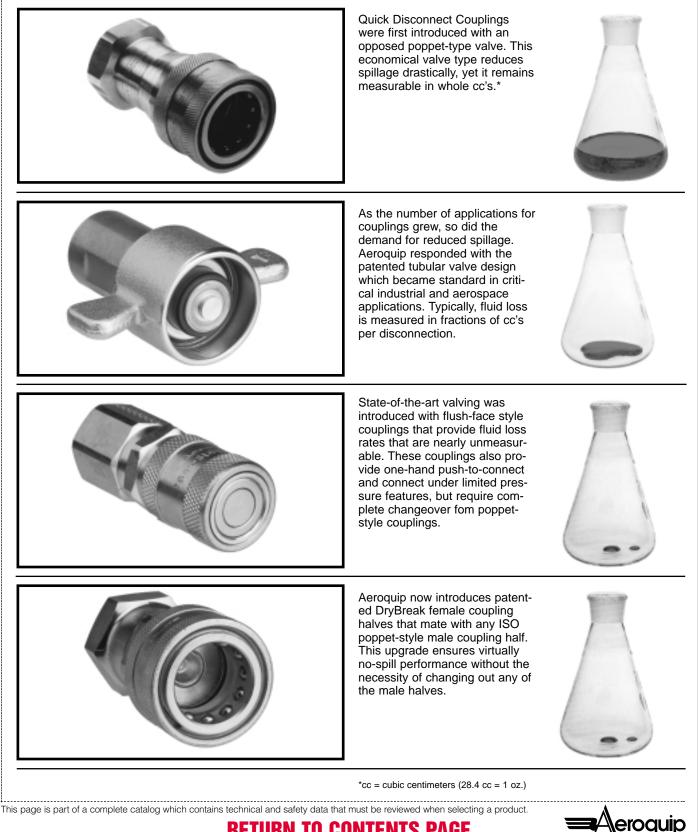
DIAGNOSTIC

FD90 Series	Coupling	Thread	Dimensional Data				Part Number	Part Number with Dust Cap	Line
	Size	Size (P)	Α	В	$\sqrt{1}$	<u>,2</u>)	Buna-N	Buna-N	Ref
Male Half	-04	9/16-18	2.46	.94	.81	.81	FD90-1206-04-04		1
Male ORS Bulkhead,									2
Valved									3
									4
									5
╘═══╋╌╋┹╢╱╌╢╧┸╶╜╙┙									6
									7
									8
Male Half,	-04	9/16-18	1.79	.87	.75	.69	FD90-1061-04-04		9
Female ORS Swivel									10
									11
									12
									13
									14
									15
jer jer									16
Male Half	-04	M10x1	1.58	.72	.62		FD90-1090-10-04		17
Male Metric O-Ring									18
ISO6149-2 Valved									19
									20
									21
									22
									23
									24

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A Brief History of "Dry Break" Couplings

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QUICK DISCONNECT COUPLINGS