

Danfoss Hansen® Quick Disconnect Couplings



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Introduction to Danfoss Quick Disconnect Couplings

Since the invention of the quick-release coupling by Fred Hansen in 1915, the Hansen name has been known for setting new industry standards in fluid conveyance—building a strong global reputation for performance, resilience and reliability.

The innovative design of Danfoss Hansen quick disconnect couplings enables higher flow rates with an optimized flow path, reducing pressure drops and increasing overall system efficiency. In turn, this decreases component wear and tear, lowers application energy consumption, and reduces system space and weight—all of which can slash both fuel consumption and cost of ownership.

Danfoss Hansen quick disconnect couplings also come with Dura-Kote™ plating as standard, offering exceptional corrosion protection that prevents red rust for up to 1000 hours, extending their lifespan and reducing maintenance demands.

“Danfoss Hansen quick disconnect couplings are well known for outstanding performance and robust design, driving leak-free operations”. “Our Danfoss Hansen brand recalls this long heritage of application excellence across a multitude of different markets.”

At the same time, it also marks the opening of a new chapter in engineering tomorrow for hydraulic, pneumatic, and fluid transfer applications. Our experts will continue pioneering new improvements to ensure Danfoss Hansen couplings remain a clear market leader long into the future.

The updated Danfoss Hansen product line also offers customers a plethora of options. Available in a wide variety of materials and sizes, along with optimized sealing solutions, the couplings are highly customizable based on the performance and cost demands of a customer's specific application.



Safety Information for Danfoss Quick Disconnect Couplings

1.0 General Instructions.

- 1.1 Scope.** The scope of this safety bulletin is to warn against improper selection, use, installation, etc. of Danfoss coupling products.
- 1.2 Distribution.** A copy of this safety bulletin should be distributed to all individuals responsible for using and/or selecting Danfoss coupling 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 Danfoss 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 Danfoss product being used. The user must provide necessary product warnings for Danfoss couplings products, used with systems or equipment, to the operators of the systems or equipment.
- 1.5 Usage with other Manufacturers' Products.** When using Danfoss coupling 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 Danfoss Couplings.
- 2.1 Pressure.** Ensure that the maximum operating pressure of the system or equipment does not exceed the rated operating pressure of the Danfoss coupling 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 Danfoss coupling product (including seals) or rupture may result.
- 2.4 Coupling Size.** Use properly sized couplings 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 Danfoss couplings 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 Danfoss Couplings.

- 3.1 Inspection of Product.** Prior to installation, ensure that the Danfoss 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. 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 Danfoss couplings 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 Danfoss couplings are functioning properly. Danfoss is not responsible for product failures resulting from modification or improper maintenance.
- 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 should be replaced immediately.

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 Danfoss 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

- Both the elastomer and the metal must be considered when determining suitability of combination for a coupling.
- Locate the fluid to be conveyed and determine the suitability of the elastomeric and metal components according to the resistance rating shown for each.
- 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 desired.
- For further details on the products shown in this catalog, and their applications, consult your Danfoss Sales Representative or Danfoss Technical Support.
- Coupling component materials may differ from body material. Refer to specific catalog pages.

The charts below are 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.

E=Excellent
G=Good
C=Conditional
U=Unsatisfactory

Fluid	Seals								Metal			
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum				
Acetaldehyde	U	C	C	U	G	E	E	E				
Acetic Acid, 10%	U	U	E	G	U	U	C	C				
Acetic Acid, Glacial	U	U	C	U	U	U	C	C				
Acetone	U	U	G	U	E	E	E	E				
Acetophenone	U	U	E	U	E	E	E	C				
Acetyl Acetone	U	U	G	U	U	C	C	C				
Acetyl Chloride	U	U	U	E	C	C	C	U				
Acetylene (1)	G	U	G	E	E	E	E	E				
Air, Hot (Up to +160°F)	E	E	E	E	E	E	E	E				
Air, Hot (161°F – 200°F)	C	G	E	E	E	E	E	E				
Air, Hot (201°F – 300°F)	U	U	G	E	E	E	E	E				
Air Wet, below 160°F	E	E	E	E	U	G	E	E				
Aluminum Chloride, 10% aq	E	E	E	E	U	U	U	U				
Aluminum Fluoride, 10% aq	E	E	E	E	U	U	U	E				
Aluminum Nitrate, 10% aq	E	E	E	E	U	U	C	C				

Resistance Rating Key

E = Excellent – Fluid has little or no effect

G = Good – Fluid has minor to moderate effect

C = Conditional – Service conditions should be described to Danfoss 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”.

Fluid	Seals								Metal			
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum				
Aluminum Sulfate, 10% aq	E	E	E	E	U	C	E	C				
Alums, 10% aq	E	E	E	E	U	C	E	C				
Ammonia, Cold	E	E	E	U	E	U	E	E				
Ammonia, Hot	U	G	G	U	E	U	E	E				
Ammonia, Anhydrous	G	G	E	U	E	U	E	E				
Ammonia, Aqueous	E	E	E	U	E	U	E	E				
Ammonium Carbonate, 10% aq	U	E	E	U	C	U	C	C				
Ammonium Chloride, 10% aq	E	E	E	U	U	U	C	U				
Ammonium Hydroxide, 10% aq	C	C	E	C	G	U	C	C				
Ammonium Nitrate, 10% aq	E	G	E	U	G	U	G	G				
Ammonium Phosphate, 10% aq	E	E	E	–	U	C	G	U				
Ammonium Sulfate/Sulfide, 10% aq	E	E	E	U	U	U	G	U				
Amyl Acetate	U	U	G	U	E	E	E	E				
Amyl Alcohol	G	C	E	G	G	G	E	U				
Aniline, Aniline Oil	U	U	G	U	E	U	E	G				

Fluid Compatibility

E=Excellent

G=Good

C=Conditional

U=Unsatisfactory

Fluid	Seals				Metal			
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum
Aniline Dyes	U	G	G	G	U	C	G	C
Asphalt, < 200°F	G	C	U	E	E	G	E	C
IRM 901 Oil	E	E	C	E	E	E	E	E
IRM 902 Oil	E	G	U	E	E	E	E	E
IRM 903 Oil	E	C	U	E	E	E	E	E
Automatic Trans. Fluid	E	C	U	E	E	E	E	E
Barium Chloride, 10% aq	E	E	E	E	U	G	G	G
Barium Hydroxide, 10% aq	E	E	E	E	G	U	G	U
Barium Sulfide, 10% aq	E	E	E	E	C	U	G	U
Benzene, Benzol	U	U	U	E	G	E	E	G
Benzoic Acid	U	U	U	E	U	G	G	G
Benzyl Alcohol	U	G	G	E	E	G	E	G
BioDiesel (<B20)	G	C	U	E				
BioDiesel (>B20)	G	C	U	E				
Black Sulfate Liquor	C	C	C	E	E	C	E	U
Blast Furnace Gas	U	U	U	E	E	C	E	U
Borax, 10% aq	G	G	E	E	E	E	E	G
Boric Acid, 10% aq	G	G	G	E	U	G	C	C
Brine	E	G	E	E	U	G	G	U
Bromine, Dry	U	U	U	E	U	C	U	C
Butane	E	C	U	E	E	E	E	E
Butyl Acetate	U	U	G	U	E	E	E	E
Butyl Alcohol	E	E	G	E	G	G	G	G
Butyl Cellosolve	U	U	G	U	E	E	E	E
Butylene (Butene)	C	U	U	E	E	E	E	E
Butyl Stearate	G	U	U	E	G	G	G	G
Butyraldehyde	U	U	G	U	E	E	E	E
Calcium Acetate, 10% aq	G	G	E	U	G	G	G	C
Calcium Bisulfate, 10% aq	E	E	U	E	U	C	C	U
Calcium Chloride, 10% aq	E	E	E	E	G	G	G	C
Calcium Hydroxide, 10% aq	E	E	E	E	G	G	G	U
Calcium Hypochlorite, 10% aq	U	U	E	E	U	G	C	U
Calcium Nitrate, 10% aq	E	E	E	E	G	G	G	G
Carbitol	G	G	G	G	E	E	E	E
Carbolic Acid (Phenol)	U	U	G	E	U	E	E	-
Carbonic Acid	G	E	E	E	U	C	E	G
Carbon Dioxide, Dry Gas	G	G	E	E	E	E	E	E
Carbon Disulfide	U	U	U	E	G	G	G	E
Carbon Monoxide	G	G	E	E	E	E	E	E
Carbon Tetrachloride	U	U	U	E	U	G	G	U
Castor Oil	E	E	G	E	E	E	E	E
Cellosolve Acetate	U	U	G	U	U	U	E	G
China Wood Oil (Tung Oil)	G	G	U	E	E	G	E	E
Chlorine Gas, Dry	U	U	U	G	C	C	C	C
Chloroacetic Acid	U	U	G	U	U	U	U	U
Chloroacetone	U	U	E	U	G	G	G	U
Chlorobenzene	U	U	U	G	G	G	G	G
Chloroform	U	U	U	E	G	G	G	G
O-Chlorophenol	U	U	U	E	G	G	G	U
Chlosulfonic Acid	U	U	U	U	G	U	G	G
Chrome Plating Solution	U	U	G	E	C	U	U	U
Chromic Acid	U	U	C	E	C	U	U	U
Citric Acid	E	E	E	E	C	C	C	C
Coke Oven Gas	U	U	U	E	E	C	E	U
Copper Chloride, 10% aq	E	E	E	E	U	U	U	U
Copper Cyanide, 10% aq	E	E	E	E	E	U	G	U
Copper Sulfate, 10% aq	E	E	E	E	U	C	G	U

Fluid	Seals				Metal			
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum
Cotton Seed Oil	E	G	C	E	E	E	E	E
Creosote (Coal Tar)	G	C	U	E	E	C	E	E
Crude Oil	E	G	U	E	G	U	G	U
Cyclohexanol	E	G	U	E	E	E	E	C
Cyclohexanone	U	U	G	U	E	E	E	C
Detergent/Water Solution	E	E	E	E	G	E	E	E
Diacetone Alchohol (Acetol)	U	U	E	U	E	E	E	E
Dibenzyl Ether	U	U	G	U	G	G	G	G
Diesel Oil	E	C	U	E	E	E	E	E
Diethylamine	G	G	G	U	E	U	E	-
Diethyl Phthalate (DOP)	U	U	G	G	E	E	E	E
DOT #3 / #4 Brake fluid	C	U	E	U	E	C	E	E
Dowtherm A&E	U	U	U	E	G	U	E	E
Ethyl Alcohol (Ethanol)	E	E	E	E	E	E	E	G
Ethyl Acetate	U	U	G	U	E	E	E	E
Ethyl Benzene	U	U	U	E	E	G	G	G
Ethyl Cellulose	G	G	G	U	E	G	G	G
Ethyl Chloride	U	U	U	E	E	E	E	G
Ethylene Dichloride	U	U	U	G	G	C	G	G
Ethylene Glycol	E	E	E	E	U	G	E	E
Ferric Chloride, 10% aq	E	G	E	E	U	U	U	U
Ferric Nitrate, 10% aq	E	E	E	E	U	U	G	U
Ferric Sulfate, 10% aq	G	G	G	E	U	U	E	U
Formaldehyde	C	C	G	G	E	E	E	G
Formic Acid	C	G	E	U	U	C	C	C
Fuel Oil	E	C	U	E	E	E	E	E
Furfural	C	C	G	U	G	G	G	G
Gallic Acid, Solution	G	G	G	E	U	-	G	C
Gasoline	E	U	U	E	E	E	E	E
Gasohol	G	U	U	E	E	E	E	G
Glycerine/Glycerol	E	E	E	E	E	G	E	E
Green Sulfate Liquor	G	G	E	E	U	U	E	U
Helium (1)	E	E	E	E	E	E	E	E
Heptane	E	G	U	E	E	E	E	E
Hexaldehyde	U	G	G	U	G	G	E	E
Hexane	E	G	U	E	E	E	E	E
Hydraulic Oils, petroleum based	G	C	U	E	E	E	E	E
Ester Blend	E	U	U	E	E	E	E	E
Phos. Ester/Petroleum Blend	U	U	U	C	E	E	E	E
Silicone Oils	E	E	E	E	E	E	E	E
Straight Petroleum Base	E	C	U	E	E	E	E	E
Straight Phosphate Ester	U	U	G	C	E	E	E	E
Water Glycol	E	E	E	E	E	E	E	G
Water Petroleum Emulsion	E	G	U	E	C	E	E	G
Hydrobromic Acid	U	U	E	E	E	U	E	E
Hydrochloric Acid, Cold	U	U	G	E	U	U	U	U
Hydrocyanic Acid	C	C	E	E	E	E	G	E
Hydrofluoric Acid	U	U	C	U	U	U	U	U
Hydrofluorosilic Acid	G	G	E	E	U	U	U	U
Hydrogen	E	E	E	E	E	E	E	E
Hydrogen Peroxide	G	G	G	E	U	U	G	E
Hydrogen Sulfide, Dry	U	G	E	U	E	G	G	G
Isocyanate	U	U	G	E	G	-	G	-
Iso Octane	E	G	U	E	E	E	E	E
Isopropyl Acetate	U	U	G	U	E	-	E	E
Isopropyl Alcohol	G	G	E	E	E	E	E	G
Isopropyl Ether	G	U	U	U	G	G	G	-

Fluid Compatibility

E=Excellent
G=Good
C=Conditional
U=Unsatisfactory

Fluid	Seals				Metal			
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum
JP-4, JP-5	E	U	U	E	E	E	E	E
Kerosene	E	U	U	E	E	E	E	E
Lacquer/Lacquer Solvents	U	U	U	U	U	E	E	E
Lime Sulfur	U	E	E	E	G	U	G	-
Linseed Oil	E	G	U	E	E	E	E	E
LPG	E	G	U	E	E	E	E	E
Magnesium Chloride, 10% aq	E	E	E	E	E	C	C	G
Magnesium Hydroxide, 10% aq	G	G	E	E	E	G	E	G
Magnesium Sulfate, 10% aq	E	E	E	E	E	E	E	E
Maleic Acid	U	U	U	E	E	G	G	G
Maleic Anhydride	U	U	U	E	G	U	E	G
Malic Acid	G	G	U	G	U	-	E	G
Mercuric Chloride	E	E	E	E	U	U	U	U
Mercury	E	E	E	E	E	U	E	U
Methanol	G	G	E	U	G	G	E	C
Methyl Bromide	G	U	U	E	E	E	G	U
Methyl Chloride	U	U	U	E	E	E	E	U
Methyl Butyl Ketone	U	U	E	U	E	E	E	-
Methyl Ethyl Ketone	U	U	E	U	G	G	E	G
Methylene Chloride	U	U	U	G	G	G	G	G
Methyl Isobutyl Ketone	U	U	U	U	G	G	G	G
Methyl Isopropyl Ketone	U	U	U	U	G	G	G	G
Methyl Salicylate	U	U	C	U	E	G	G	E
MIL-H-2104	E	G	U	E	E	E	E	-
MIL-H-5606	E	G	U	E	E	E	E	E
MIL-H-6083	E	E	U	E	E	E	E	-
MIL-L-7808	G	U	U	E	G	G	E	-
MIL-L-23699	G	U	U	E	E	E	E	E
MIL-H-46170	E	G	U	E	E	E	E	-
MIL-H-83282	E	U	U	E	E	E	E	-
Mineral Oils	E	C	U	E	E	E	E	E
Naphtha	C	U	U	E	-	-	-	-
Naphthalene	U	U	U	E	E	G	E	G
Naphthenic Acid	C	U	U	E	-	G	E	G
Natural Gas	E	E	U	E	G	G	G	G
Nickel Acetate, 10% aq	C	C	E	G	G	C	E	G
Nickel Chloride, 10% aq	E	G	E	E	U	U	G	U
Nickel Sulfate, 10% aq	E	E	E	E	U	G	G	U
Nitric Acid, to 10%	U	U	U	E	U	U	E	U
Nitric Acid, over 10%	U	U	U	G	U	U	E	C
Nitrobenzene	U	U	U	G	E	G	E	E
Nitrogen	E	E	E	E	E	E	E	E
Octyl Alcohol	E	E	E	E	E	E	E	E
Oleic Acid	U	U	C	G	C	E	G	C
Oleum, fuming sulfuric acid	U	U	U	E	E	E	E	E
Ortho-Dichlorobenzene	U	U	U	E	G	G	G	G
Oxalic Acid, 10% aq	G	G	E	E	U	C	C	C
Oxygen	-	-	E	E	G	G	G	G
Palmitic Acid	E	G	G	E	G	-	E	G
Para-Dichlorobenzene	U	U	U	E	G	G	G	G
Pentane	E	E	U	E	G	G	G	E
Perchloric Acid	E	G	G	E	U	U	U	U
Perchloroethylene	U	U	U	E	C	G	G	G
Petroleum Base Oils	E	G	U	E	E	E	E	E
Phenol (Carbolic Acid)	U	U	G	E	U	E	E	E
Phosphate Ester	U	U	G	C	E	E	E	E
Phosphoric Acid 20%	U	U	G	E	U	E	U	C

Fluid	Seals				Metal			
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum
Phosphorous Trichloride	U	U	E	E	C	U	C	E
Potassium Acetate, 10% aq	G	G	E	U	C	G	C	U
Potassium Chloride, 10% aq	E	E	E	E	E	C	E	U
Potassium Cyanide, 10% aq	E	E	E	E	C	U	G	U
Potassium Dichromate, 10% aq	E	E	E	E	C	C	C	C
Potassium Hydroxide, to 10%	G	G	E	G	G	G	G	U
Potassium Hydroxide, over 10%	C	C	E	U	G	G	G	U
Potassium Nitrate, 10% aq	E	E	E	E	G	G	E	G
Potassium Sulfate, 10% aq	E	E	E	E	-	-	-	-
Propane (Liquified)	C	G	-	E	E	E	E	E
Propyl Acetate	U	U	G	U	E	-	E	E
Propyl Alcohol	E	E	E	E	E	E	E	E
Propylene	U	U	U	E	E	E	E	E
Rapeseed oil (B100)	G	C	U	E	-	-	-	-
Refrigerant R-12	G	E	C	E	E	E	E	E
Refrigerant R-13	G	E	C	E	E	E	E	E
Refrigerant R-22	U	E	C	U	E	E	E	E
Refrigerant R-134a	E	C	G	U	E	E	E	E
Sewage	E	E	E	E	G	G	G	G
Silicone Oils	E	E	E	E	E	E	E	E
Soap (Water Solutions)	E	E	E	E	E	E	E	U
Sodium Acetate, 10% aq	G	G	E	U	E	E	G	E
Sodium Bicarbonate, 10% aq	E	E	E	E	G	G	E	G
Sodium Borate, 10% aq	E	E	E	E	E	E	E	G
Sodium Carbonate, 10% aq	E	E	E	E	E	G	E	U
Sodium Chloride, 10% aq	E	E	E	E	U	C	C	C
Sodium Cyanide, 10% aq	E	E	E	E	E	-	C	U
Sodium Hydroxide, to 10%	U	G	E	E	C	G	C	U
Sodium Hydroxide, over 10%	U	U	G	E	C	C	C	U
Sodium Hypochlorite, 10% aq	C	C	E	C	U	U	U	U
Sodium Metaphosphate, 10% aq	E	E	E	E	E	G	G	U
Sodium Nitrate, 10% aq	G	G	E	-	E	C	E	E
Sodium Perborate, 10% aq	G	G	E	E	C	U	C	U
Sodium Peroxide, 10% aq	G	G	E	E	U	U	C	C
Sodium Phosphates, 10% aq	E	E	E	E	U	E	G	U
Sodium Silicate, 10% aq	E	E	E	E	E	E	E	E
Sodium Sulfate, 10% aq	E	E	E	E	C	G	G	G
Sodium Sulfide, 10% aq	E	E	E	E	C	U	C	U
Sodium Thiosulfate, 10% aq	G	E	E	E	U	U	C	G
Soy Bean Oil (B100)	E	C	U	E	E	E	E	E
Stannic Chloride	E	G	E	E	U	U	U	U
Steam (up to 388°F)	U	U	C	C	E	E	E	G
Stearic Acid	G	G	G	E	C	C	E	C
Stoddard Solvent	E	G	U	E	E	E	E	E
Styrene	U	U	U	G	E	E	E	E
Sulfur, Slurry	U	E	E	E	E	U	G	E
Sulfur Chloride, Wet	U	U	U	E	G	-	G	G
Sulfur Dioxide, Dry	U	U	G	E	E	G	G	E
Sulfur Trioxide	U	U	G	E	G	C	G	G
Sulfuric Acid, to 10%	U	G	U	E	U	G	C	-
Sulfuric Acid, over 10%	U	U	U	G	C	C	C	U
Sulfurous Acid	C	C	U	G	U	C	C	C
Tannic Acid	G	E	E	E	E	E	E	C
Tar (Bituminous)	G	U	U	E	E	G	E	E
Tartaric Acid	E	G	G	E	U	C	C	E
Tertiary Butyl Alcohol	G	G	G	E	G	G	G	G
Titanium Tetrachloride	C	U	U	E	E	U	G	U

Fluid Compatibility

E=Excellent
G=Good
C=Conditional
U=Unsatisfactory

Fluid	Seals								Metal	
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum		
Toluene (Toluol)	U	U	U	E	E	E	E	E		
Trichlorethylene	U	U	U	E	E	G	E	E		
Tricresyl Phosphate	U	U	E	G	E	–	C	–		
Triethanolamine	E	U	E	U	E	U	E	E		
Tung Oil	G	G	U	E	E	G	E	E		
Turpentine	G	U	U	E	G	G	G	G		
Varnish	G	U	U	E	E	G	E	E		
Vinyl Chloride	U	U	U	E	E	U	C	E		

Fluid	Seals								Metal	
	Nitrile (NBR)	Neoprene	FPDM/EPDM	FKM	Steel	Brass	Stainless Steel	Aluminum		
Water (to +150°F)	E	E	E	E	C	G	E	G		
Water (+151°F to +200°F)	E	E	E	E	C	G	E	G		
Water (+201°F to +350°F)	U	U	G	G	C	G	E	G		
Water Glycol	E	E	E	E	E	E	E	G		
Water Petroleum Emulsion	E	G	U	E	C	E	E	G		
Xylene	U	U	U	E	E	E	E	E		
Zinc Chloride, 10% aq	E	E	E	E	E	U	U	C		
Zinc Sulfate, 10% aq	E	E	E	E	U	C	G	C		

Seal information

Seal Information for Danfoss Hansen and Gromelle Products

Dash Number	Compound	Max. Operation temperature range
–***	Nitrile (NBR) – 70 Durometer	-25°C +100°C/-13°F +212°F
–115	PTFE	--
–118	Neoprene	-54°C +100°C/-65°F +212°F
–143	FKM	-29°C +204°C/-15°F +400°F
–146	Nitrile (NBR) – 70 Durometer	-25°C +100°C/-13°F +212°F
–192*	EPDM – 75 Durometer	-54°C +149°C/-65°F +300°F
–235†	Kalrez® 4079 – 78 Durometer	-20°C +275°C/-4°F +527°F
–236*	EPDM – 90 Durometer	-54°C +260°C/-65°F +500°F
–242	(Kalrez 6375 – 75 Durometer)	-20°C +275°C/-4°F +527°F
–503	(FFKM - 75 Durometer)	-15°C +275°C/+5°F +527°F
–292	(EPDM- 70 Durometer)	-54°C +149°C/-65°F +300°F

***No Dash Number required for standard seal material.

*-192 and -236 compounds are not compatible with mineral-based greases or oils.

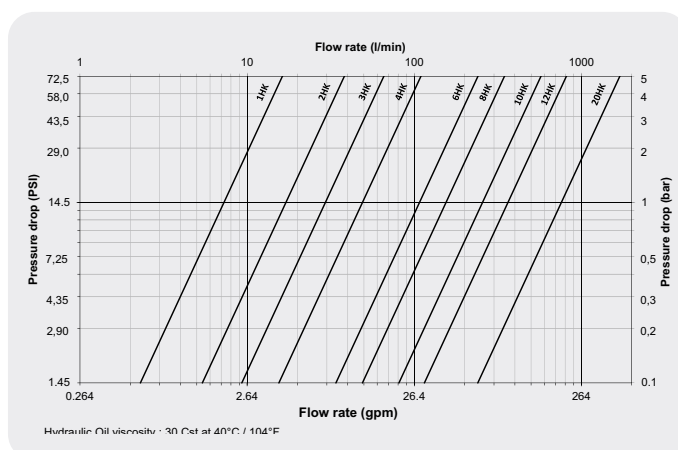
†Kalrez seals available by special quotation.

Flow data information

For each series presented in our Danfoss Hansen quick disconnect catalog, there is a Flow chart.

Please note that the flow rate data is given for an optimal situation. The data may therefore vary depending on the type of adapter used.

On the right is an example of a flow chart (given for the HK series).



Couplings for fluid transfer and hydraulic applications



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H15000 Series ISO 7241-1 A Interchange

Fluid transfer & Hydraulic application



The H15000 Series is a general purpose industrial interchange coupling that meets the ISO 7241-1 Series A standard.

The H15000 Series features a rugged ball latch mechanism with self-sealing poppet valves.

Product Features

- Meets the requirements of ISO 7241-1 Series A
- Designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU.
- ½" size available in push-pull version (double acting sleeve, bulkhead-mounted)
- Double shut off valves with ball locking
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Buna-N

Physical characteristics

ISO Size	Coupling Size	Nominal Flow Diameter	Max. Operating Pressure		Rated Flow**		Fluid Loss
	(in)		(bar)	(psi)	(lpm)	(gpm)	
6.3	¼	5.3	315	4,565	10	2.6	0.35
10	3/8	7.3	315	4,565	20	5.3	1.5
12.5	½	10.2	250	3,625	40	10.6	2.6
20	¾	13	250	3,625	75	19.8	8.5
25	1	16.9	200	2,900	140	37	13

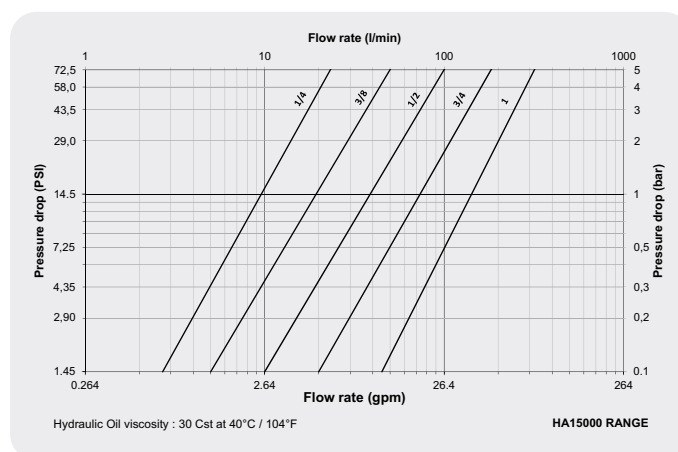
*The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).

*Indicated values refer to a 1 bar/14.5 psi pressure drop.

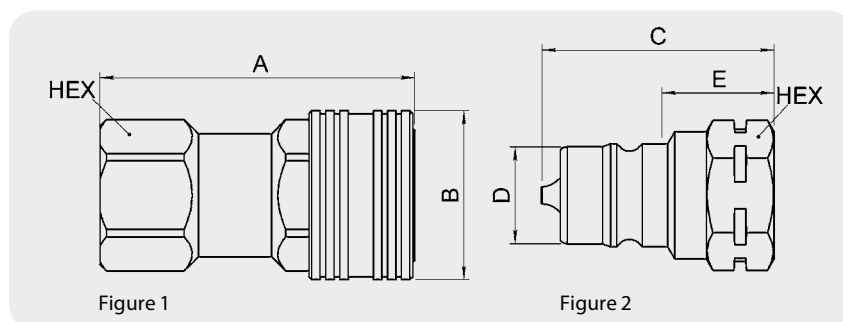
Applications & Markets

- Data Centers
- Mobile Battery Cooling
- Thermal Management Systems
- Industrial Fluid Transfer
- Not intended for two-phase cooling

Flow Data



H15000 Series ISO 7241-1 A Interchange



Part/Order Number	Nominal Flow Diameter	ISO	Size	Coupling Type	Thread Size	Fig.	Dimensions A	B	Hex	Weight
	(mm)	(mm)	(in)				(mm)	(mm)	(mm)	(g)
HA1501100	5.3	6.3	¼	Socket/Female	G ¼	1	48	25	19	94
HA1521100	5.3	6.3	¼	Socket/Female	¼ NPT	1	48	25	19	94
HA1502100	7.3	10	¾	Socket/Female	G3/8	1	56	30	23	139
HA1522100	7.3	10	¾	Socket/Female	3/8 NPT	1	56	30	23	139
HA1503100	10.2	12.5	½	Socket/Female	G ½	1	67	38	27	238
HA1503600	10.2	12.5	½	Socket/Female	G ½ push-	1	67	38	27	238
HA1523100	10.2	12.5	½	Socket/Female	½ NPT	1	67	38	27	238
HA1504100	13	20	¾	Socket/Female	G ¾	1	83	48	35	484
HA1524100	13	20	¾	Socket/Female	¾ NPT	1	83	48	35	484
HA1505100	16.9	25	1	Socket/Female	G 1	1	98	53	41	670
HA1525100	16.9	25	1	Socket/Female	1 NPT	1	98	53	41	670

Part/Order Number	Nominal Flow Diameter	ISO	Size	Coupling Type	Thread Size	Fig.	Dimensions C	D	E	Hex	Weight
	(mm)	(mm)	(in)				(mm)	(mm)	(mm)	(mm)	(g)
HA1501200	5.3	6.3	¼	Plug/Male	G ¼	2	36	11.8	20	19	36
HA1521200	5.3	6.3	¼	Plug/Male	¼ NPT	2	36	11.8	20	19	36
HA1502200	7.3	10	¾	Plug/Male	G3/8	2	41.5	17.3	20	23	62
HA1522200	7.3	10	¾	Plug/Male	3/8 NPT	2	41.5	17.3	20	23	62
HA1503200	10.2	12.5	½	Plug/Male	G½	2	49	20.5	24	27	88
HA1523200	10.2	12.5	½	Plug/Male	½NPT	2	49	20.5	24	27	88
HA1504200	13	20	¾	Plug/Male	G ¾	2	61.5	29.1	23	35	194
HA1524200	13	20	¾	Plug/Male	¾ NPT	2	61.5	29.1	27	35	194
HA1505200	16.9	25	1	Plug/Male	G 1	2	71.5	34.3	30	41	306
HA1525200	16.9	25	1	Plug/Male	1 NPT	2	71.5	34.3	30	41	306

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 2) together.

Dust Plugs and Dust Caps

Series	Dust Plug	Dust Cap
6.3	HP1511100	HP1511200
10	HP1512100	HP1512200
12.5	HP1513100	HP1513200
20	HP1514100	HP1514200
25	HP1515100	HP1515200

Seal Kit for Servicing Sockets (Female)

Body size	Seal & Back-up Ring Kit*	Qty
(in)	NBR seals & PTFE back-up rings	
1/4	HG 15011 00	50 O-rings + 50 Backup rings
3/8	HG 15021 00	50 O-rings + 50 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings
3/4	HG 15041 00	50 O-rings + 50 Backup rings
1	HG 15051 00	50 O-rings + 50 Backup rings

*The valve seal is not included in our repair kits.



IA Series ISO 7241-1 A Interchange

Fluid transfer & Hydraulic application



The IA Series meets ISO 7241-1 A Standard requirements and has a push-pull design, which allows the socket to be bulkhead-mounted. This configuration provides automatic connection or disconnection via a simple push or pull of the plug. Our IA Series is available in 1/2", with female or male end connections such as tube fittings, NPT, metric or SAE threads. It is widely used in agriculture and forestry applications.

Product Features

- ISO size: 12.5 mm (1/2")
- Standard body material: Zinc trivalent plated steel
- Wide offering of end connections, among which metric threads designed in accordance with ISO Standard 8434/1
- Standard seal material: NBR
- Optional PVC dust caps and plugs
- Meets dimensional requirements of ISO Standard 7241/1 Series A
- Designed and manufactured in accordance with Article 3.3 of the European Pressure Equipment Directive PED 201468/EU
- Push-to-connect: the push-pull sleeve on the bulkhead-mounted socket provides automatic connection or disconnection via a simple push or pull of the plug. In the event of pull on the hose, the double-action sleeve gives immediate and automatic disconnection

Physical characteristics

Body Size	ISO Size*	Nominal Flow Diameter	Max. Operating Pressure		Rated Flow**		Fluid Loss
(in)	(mm)	(mm)	(bar)	(psi)	(lpm)	(gpm)	ml max
1/2	12.5	6 8 10 10.3	250	3,625	45	11.9	2.6

*The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).

**Indicated values refer to a 1 bar/14.5 psi pressure drop.

Applications & Markets

- Agriculture
- Forestry Machinery

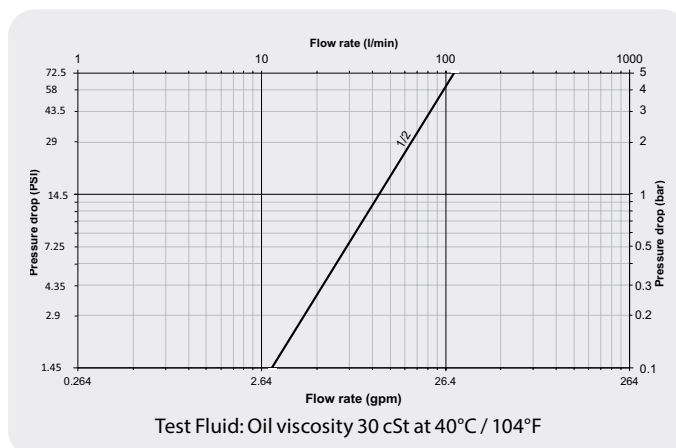
Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature
Buna-N	-20°C +100°C/-4°F +212°F

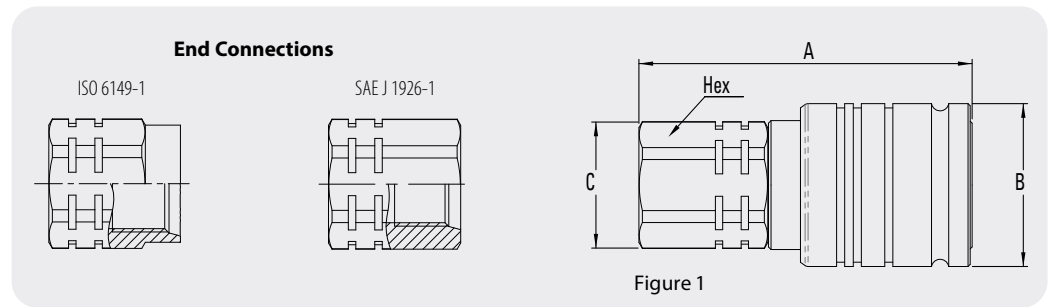
*For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

Flow Data



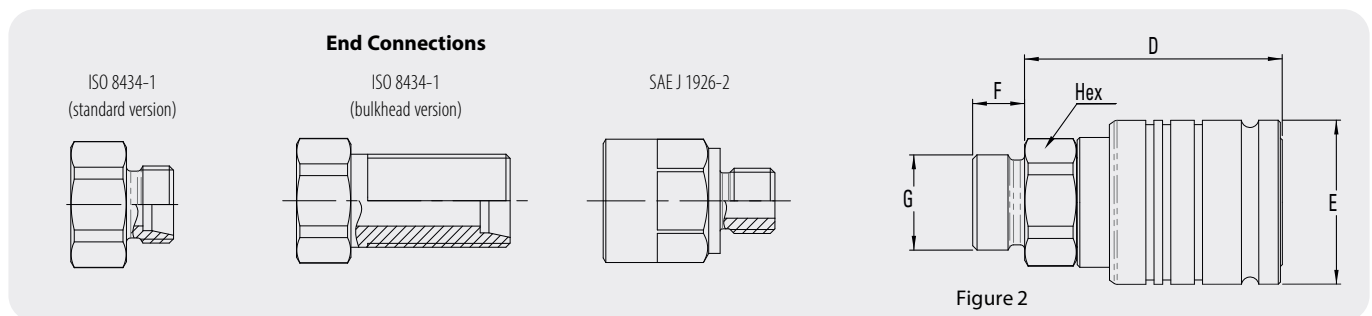
IA Series ISO 7241-1 A Interchange



Sockets (Female) with Internal Thread

Part/Order Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size (Female)					Dimensions								Weight	
				NPT	BSPP	ISO 6149-1	SAE J 1926-1	Fig.	A	B	C	Hex					lbs	grams
12IAS37BS	½	12.5	12.5	-	¾-19	-	-	1	75	2.95	38	1.50	29.5	1.20	27	1.06	0.67	305
12IAS37				¾-18	-	-	-	1	75	2.95	38	1.50	29.5	1.20	27	1.06	0.67	305
12IAS50BS				-	½-14	-	-	1	78	3.07	38	1.50	29.5	1.20	27	1.06	0.66	300
12IAS50				½-14	-	-	-	1	78	3.07	38	1.50	29.5	1.20	27	1.06	0.67	305
12IAS16FMET				-	-	M16x1.5	-	1	75	2.95	38	1.50	29.5	1.20	27	1.06	0.66	300
12IAS56UN				-	-	-	¾ 18f UNF	1	78	3.07	38	1.50	29.5	1.20	27	1.06	0.71	320
12IAS75UN				-	-	-	¾ 16f UNF	1	78	3.07	38	1.50	29.5	1.20	27	1.06	0.67	305
12IAS87UN				-	-	-	¾ 14f UNF	1	81	3.19	38	1.50	33.0	1.30	30	1.18	0.74	335

To obtain connected length of coupling add dimensions A (Fig. 1) and K (Fig. 3) or P (Fig. 4) together.

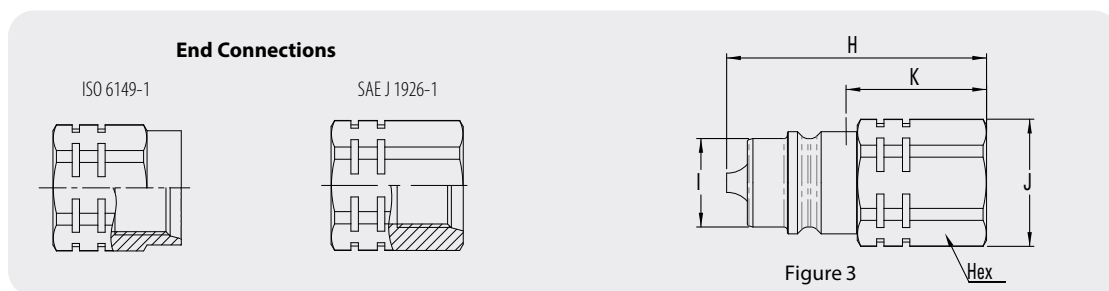


Sockets (Female) with Internal Thread

Part/Order Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size (Male)					Dimensions								Weight	
				ISO 8434-1	SAE J 1926-2	Fig.	D	E	F	G	Hex						lbs	grams
12IAS56ORM	½	12.5	10.3	-	¾ 18f UNF	2	73	2.87	38	1.50	12	0.47	14.2	0.56	23.8	0.94	0.67	305
12IAS75ORM			10.3	-	¾ 16f UNF	2	73	2.87	38	1.50	14	0.55	19	0.75	23.8	0.94	0.68	310
12IAS8L			6	8L - M14x1.5	-	2	62	2.44	38	1.50	10	0.39	14	0.55	27	1.06	0.61	275
12IAS10L			8	10L - M16x1.5	-	2	61	2.40	38	1.50	11	0.43	16	0.63	27	1.06	0.60	270
12IAS10LBH			8	10L - M16x1.5 Bulkhead	-	2	62	2.44	38	1.50	35	1.38	16	0.63	27	1.06	0.68	310
12IAS12L			10	12L - M18x1.5	-	2	61	2.40	38	1.50	11	0.43	18	0.71	27	1.06	0.61	275
12IAS12LBH			10	12L - M18x1.5 Bulkhead	-	2	61	2.40	38	1.50	36	1.42	18	0.71	27	1.06	0.70	316
12IAS12S			8	12S - M20x1.5	-	2	61	2.40	38	1.50	12	0.47	20	0.79	27	1.06	0.62	282
12IAS15L			10.3	15L - M22x1.5	-	2	60	2.36	38	1.50	12	0.47	22	0.87	27	1.06	0.61	275
12IAS15LBH			10.3	15L - M22x1.5 Bulkhead	-	2	61	2.40	38	1.50	38	1.50	22	0.87	27	1.06	0.75	340
12IAS16S			10.3	16S - M24x1.5	-	2	60	2.36	38	1.50	14	0.55	24	0.94	27	1.06	0.62	280

To obtain connected length of coupling add dimensions D (Fig. 2) and K (Fig. 3) or P (Fig. 4) together.

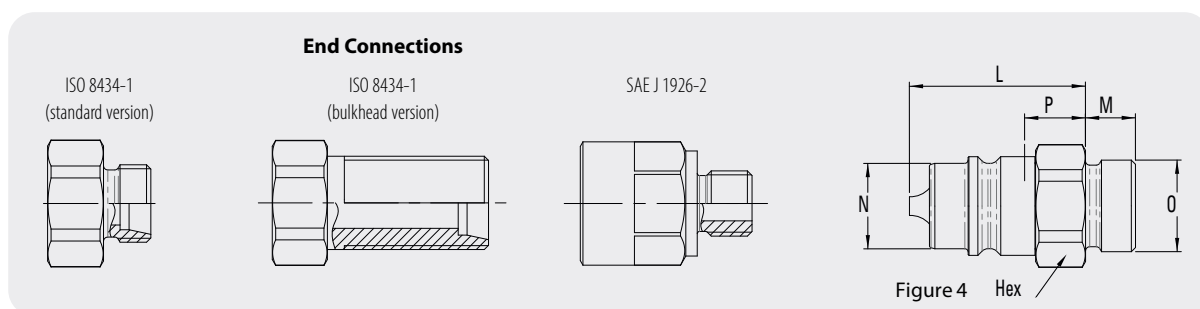
IA Series ISO 7241-1 A Interchange



Plugs (Male) with Internal Thread

Part/Order Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size (Female)				Fig.	Dimensions								Weight			
				NPT	BSPP	ISO 6149-1	SAE J 1926-1		H	I	J	K	Hex				lbs	grams		
NBR	(in)	(mm)	(mm)	NPT	BSPP	ISO 6149-1	SAE J 1926-1		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
12IAP37BS	1/2	12.5	10.3	-	3/8 -19	-	-	3	57.0	2.24	20.5	0.84	29.5	1.20	31.0	1.22	27.0	1.06	0.28	125
12IAP37				3/8 -18	-	-	-	3	57.0	2.24	20.5	0.84	29.5	1.20	31.0	1.22	27.0	1.06	0.29	130
12IAP50				1/2 -14	-	-	-	3	60.0	2.36	20.5	0.84	29.5	1.20	34.0	1.34	27.0	1.06	0.28	125
12IAP16FMET				-	-	M16x1.5	-	3	57.0	2.24	20.5	0.84	29.5	1.20	31.0	1.22	27.0	1.06	0.26	120
12IAP56UN				-	-	-	3/8 18f UNF	3	60.0	2.36	20.5	0.84	29.5	1.20	34.0	1.34	27.0	1.06	0.31	140
12IAP75UN				-	-	-	3/4 16f UNF	3	60.0	2.36	20.5	0.84	29.5	1.20	34.0	1.34	27.0	1.06	0.28	125
12IAP87UN				-	-	-	7/8 14f UNF	3	63.0	2.48	20.5	0.84	33.0	1.30	37.0	1.46	30.0	1.18	0.34	155

To obtain connected length of coupling add dimensions K (Fig. 3) and A (Fig. 1) or D (Fig. 2) together.



Plugs (Male) with External Thread

Part/Order Number	Body Size	ISO Size	Nominal Flow		Dimensions													Weight		
			Diameter	Thread Size (Male)	Fig.	L	M	N	O	P	Hex									
NBR	(in)	(mm)	(mm)	ISO 8434-1	SAE J 1926-2		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
12IAP56ORM	½	12.5	10.3	-	¾ 18f UNF	4	56.0	2.20	12.0	0.47	20.5	0.84	14.2	0.56	30.0	1.18	23.8	0.94	0.28	125
12IAP75ORM			10.3	-	¾ 16f UNF	4	56.0	2.20	14.0	0.55	20.5	0.84	19.0	0.75	30.0	1.18	23.8	0.94	0.29	130
12IAP8L			6	8L - M14x1.5	-	4	44.5	1.75	10.0	0.39	20.5	0.84	14.0	0.55	18.0	0.71	27.0	1.06	0.21	95
12IAP10L			8	10L - M16x1.5	-	4	43.5	1.71	11.0	0.43	20.5	0.84	16.0	0.63	17.0	0.67	27.0	1.06	0.21	95
12IAP10LBH			8	10L - M16x1.5 Bulkhead	-	4	44.5	1.75	35.0	1.38	20.5	0.84	16.0	0.63	18.0	0.71	27.0	1.06	0.30	135
12IAP12L			10	12L - M18x1.5	-	4	43.5	1.71	11.0	0.43	20.5	0.84	18.0	0.71	17.0	0.67	27.0	1.06	0.21	95
12IAP12LBH			10	12L - M18x1.5 Bulkhead	-	4	43.5	1.71	36.0	1.42	20.5	0.84	18.0	0.71	17.0	0.67	27.0	1.06	0.30	136
12IAP12S			8	12S - M20x1.5	-	4	43.5	1.71	12.0	0.47	20.5	0.84	20.0	0.79	17.0	0.67	27.0	1.06	0.22	102
12IAP15L			10.3	15L - M22x1.5	-	4	42.5	1.67	12.0	0.47	20.5	0.84	22.0	0.87	16.0	0.63	27.0	1.06	0.21	95
12IAP15LBH			10.3	15L - M22x1.5 Bulkhead	-	4	43.5	1.71	38.0	1.50	20.5	0.84	22.0	0.87	17.0	0.67	27.0	1.06	0.35	160
12IAP16S			10.3	16S - M24x1.5	-	4	42.5	1.67	14.0	0.55	20.5	0.84	24.0	0.94	16.0	0.63	27.0	1.06	0.22	100

To obtain connected length of coupling add dimensions P (Fig. 4) and A (Fig. 1) or D (Fig. 2) together.

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part/Order Number	Plug Dust Cap Part/Order Number
(in)	Plastic	Plastic
1/2	HP1513100	HP1513200



5600 Series (Carbon Steel) ISO 7241-1 A Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen 5600 Series features a rugged ball latch mechanism with self-sealing poppet valves in a wide array of port configurations and multiple valved and non-valved configurations.

AMER region

Product Features

- Meets dimensional requirements to ISO standard 7241-1 Series A
- Self-sealing poppet valve provides excellent high and low pressure sealing
- Streamlined valving provides minimum pressure drop
- Standard seal materials: Buna-N, EPDM and FKM
- Standard body material: High resistance carbon steel with zinc trivalent plating (Brass poppet guide in -04 size)

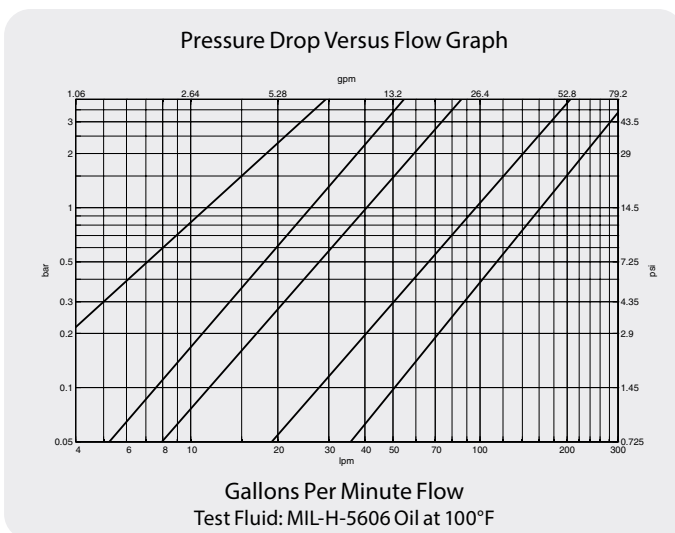
Physical characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only	Rated Flow		Air Inclusion	Fluid Loss
(in)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc. max.	cc. max.
1/4	350	5,000	1,050	15,000	28	4	1	0.50	0.50
3/8	280	4,000	840	12,000	28	23	6	1.5	1.3
5/8	280	4,000	840	12,000	28	45	12	2.8	2.8
3/4	280	4,000	840	12,000	28	106	28	10.0	8.2
1	280	4,000	840	12,000	28	189	50	14.2	14.2

Applications & Markets

- Hydraulic fluid transfer
- Agricultural equipment
- Construction equipment
- Dump, snow plow and maintenance vehicles
- In-plant manufacturing

Flow Data



5600 Series (Carbon Steel) ISO 7241-1 A Interchange

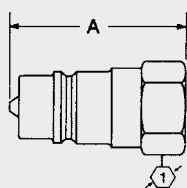


Figure 1

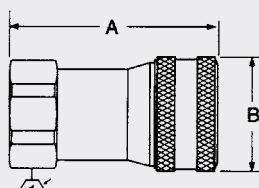


Figure 2

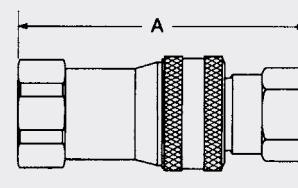


Figure 3

Dimensions (Female NPT, Valved)

Part/Order Number		Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions						
Buna-N	FKM							EPDM	A	B	Hex 			
								(mm)	(in)	(mm)	(in)	(mm)	(in)	
5602-2-4S	FD56-1062-02-04	5644-2-4S	Plug/Male	1/4	1/8	1/8-27	Female NPT	1	31.5	1.24	-	-	14.2	0.56
5601-2-4S	FD56-1064-02-04	5643-2-4S	Socket/Female	1/4	1/8	1/8-27	Female NPT	2	46.0	1.81	27.4	1.08	22.4	0.88
5600-2-4S	FD56-1065-02-04	5642-2-4S	Complete	1/4	1/8	1/8-27	Female NPT	3	61.5	2.42	-	-	-	-
5602-4-4S	FD56-1062-04-04	5644-4-4S	Plug/Male	1/4	1/4	1/4-18	Female NPT	1	33.3	1.31	-	-	19.1	0.75
5601-4-4S	FD56-1064-04-04	5643-4-4S	Socket/Female	1/4	1/4	1/4-18	Female NPT	2	46.0	1.81	27.4	1.08	22.4	0.88
5600-4-4S	FD56-1065-04-04	5642-4-4S	Complete	1/4	1/4	1/4-18	Female NPT	3	63.2	2.49	-	-	-	-
5602-6-6S	FD56-1062-06-06	5644-6-6S	Plug/Male	3/8	3/8	3/8-18	Female NPT	1	37.3	1.47	-	-	22.4	0.88
5601-6-6S	FD56-1064-06-06	5643-6-6S	Socket/Female	3/8	3/8	3/8-18	Female NPT	2	54.6	2.15	31.2	1.23	25.4	1.00
5600-6-6S	FD56-1065-06-06	5642-6-6S	Complete	3/8	3/8	3/8-18	Female NPT	3	71.1	2.80	-	-	-	-
5602-8-10S	FD56-1062-08-10	5644-8-10S	Plug/Male	5/8	1/2	1/2-14	Female NPT	1	51.3	2.02	-	-	26.9	1.06
5601-8-10S	FD56-1064-08-10	5643-8-10S	Socket/Female	5/8	1/2	1/2-14	Female NPT	2	66.3	2.61	38.1	1.50	30.2	1.19
5600-8-10S	FD56-1065-08-10	5642-8-10S	Complete	5/8	1/2	1/2-14	Female NPT	3	96.0	3.78	-	-	-	-
5602-12-10S	FD56-1062-12-10	5644-12-10S	Plug/Male	5/8	3/4	3/4-14	Female NPT	1	54.9	2.16	-	-	35.1	1.38
5601-12-10S	FD56-1064-12-10	5643-12-10S	Socket/Female	5/8	3/4	3/4-14	Female NPT	2	66.3	2.61	38.1	1.50	33.3	1.31
5600-12-10S	FD56-1065-12-10	5642-12-10S	Complete	5/8	3/4	3/4-14	Female NPT	3	103.1	4.06	-	-	-	-
5602-12-12S	FD56-1062-12-12	5644-12-12S	Plug/Male	3/4	3/4	3/4-14	Female NPT	1	64.8	2.55	-	-	35.1	1.38
5601-12-12S	FD56-1064-12-12	5643-12-12S	Socket/Female	3/4	3/4	3/4-14	Female NPT	2	82.6	3.25	46.0	1.81	38.1	1.50
5600-12-12S	FD56-1065-12-12	5642-12-12S	Complete	3/4	3/4	3/4-14	Female NPT	3	115.8	4.56	-	-	-	-
5602-16-16S	FD56-1062-16-16	5644-16-16S	Plug/Male	1	1	1-11 1/2	Female NPT	1	78.7	3.10	-	-	41.1	1.62
5601-16-16S	FD56-1064-16-16	5643-16-16S	Socket/Female	1	1	1-11 1/2	Female NPT	2	97.0	3.82	53.3	2.10	42.9	1.69
5600-16-16S	FD56-1065-16-16	5642-16-16S	Complete	1	1	1-11 1/2	Female NPT	3	123.4	4.86	-	-	-	-

Dimensions (Female NPT, Valved with Sleeve Lock)

Part/Order Number		Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
Buna-N								A		B		Hex ①	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
FD56-1239-08-10		Socket/Female	5/8	1/2	1/2-14	Female NPT	2	66.3	2.61	38.1	1.50	30.2	1.19
FD56-1239-12-12		Socket/Female	3/4	3/4	3/4-14	Female NPT	2	82.6	3.25	46.7	1.84	38.1	1.50
FD56-1239-16-16		Socket/Female	1	1	1-11 1/2	Female NPT	2	97.0	3.82	54.1	2.13	42.9	1.69

5600 Series (Carbon Steel) ISO 7241-1 A Interchange

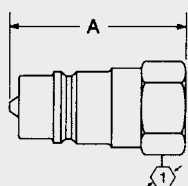


Figure 1

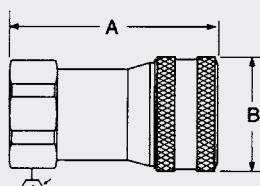


Figure 2

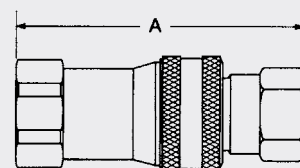


Figure 3

Dimensions (Female NPT, Non-Valved)

Part/Order Number									Dimensions					
Buna-N	FKM	EPDM	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	A	B	Hex 			
									(mm)	(in)	(mm)	(in)	(mm)	(in)
FD56-1037-04-04	FD56-1037-04-04	FD56-1037-04-04	Plug/Male*	1/4	1/4	1/4-18	Female NPT	1	31.5	1.24	-	-	19.1	0.75
FD56-1225-04-04	FD56-1207-04-04	FD56-1204-04-04	Socket/Female	1/4	1/4	1/4-18	Female NPT	2	46.0	1.81	27.4	1.08	22.4	0.88
FD56-1226-04-04	FD56-1208-04-04	FD56-1205-04-04	Complete*	1/4	1/4	1/4-18	Female NPT	3	63.2	2.49	-	-	-	-
FD56-1037-06-06	FD56-1037-06-06	FD56-1037-06-06	Plug/Male*	3/8	3/8	3/8-18	Female NPT	1	35.6	1.40	-	-	22.4	0.88
FD56-1225-06-06	FD56-1207-06-06	FD56-1204-06-06	Socket/Female	3/8	3/8	3/8-18	Female NPT	2	54.6	2.15	31.2	1.23	25.4	1.00
FD56-1226-06-06	FD56-1208-06-06	FD56-1205-06-06	Complete*	3/8	3/8	3/8-18	Female NPT	3	71.1	2.80	-	-	-	-
FD56-1037-08-10	FD56-1037-08-10	FD56-1037-08-10	Plug/Male*	5/8	1/2	1/2-14	Female NPT	1	48.0	1.89	-	-	26.9	1.06
FD56-1225-08-10	FD56-1207-08-10	FD56-1204-08-10	Socket/Female	5/8	1/2	1/2-14	Female NPT	2	66.3	2.61	38.1	1.50	30.2	1.19
FD56-1226-08-10	FD56-1208-08-10	FD56-1205-08-10	Complete*	5/8	1/2	1/2-14	Female NPT	3	96.0	3.78	-	-	-	-
FD56-1037-12-12	FD56-1037-12-12	FD56-1037-12-12	Plug/Male*	3/4	3/4	3/4-14	Female NPT	1	57.9	2.28	-	-	-	-
FD56-1225-12-12	FD56-1207-12-12	FD56-1204-12-12	Socket/Female	3/4	3/4	3/4-14	Female NPT	2	82.6	3.25	46.0	1.81	38.1	1.50
FD56-1226-12-12	FD56-1208-12-12	FD56-1205-12-12	Complete*	3/4	3/4	3/4-14	Female NPT	3	113.3	4.46	-	-	-	-
FD56-1037-16-16	FD56-1037-16-16	FD56-1037-16-16	Plug/Male*	1	1	1-11 1/2	Female NPT	1	70.4	2.77	-	-	41.1	1.62
FD56-1225-16-16	FD56-1207-16-16	FD56-1204-16-16	Socket/Female	1	1	1-11 1/2	Female NPT	2	97.0	3.82	53.3	2.10	42.9	1.69
FD56-1226-16-16	FD56-1208-16-16	FD56-1205-16-16	Complete*	1	1	1-11 1/2	Female NPT	3	140.7	5.54	-	-	-	-

Note: Will not operate with valved coupling halves; no valve actuator. *Male halves contain no seals.

Dimensions (Female NPT, Pusher-Style Valving)

Part/Order Number		Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions						
Buna-N	FKM							EPDM	A	B	Hex 			
									(mm)	(in)	(mm)	(in)	(mm)	(in)
FD56-1125-04-04	FD56-1125-04-04	FD56-1125-04-04	Plug/Male	1/4	1/4	1/4-18	Female NPT	1	31.5	1.24	-	-	19.0	0.75
FD56-1123-04-04	FD56-1201-04-04	FD56-1196-04-04	Socket/Female	1/4	1/4	1/4-18	Female NPT	2	46.0	1.81	27.4	1.08	22.4	0.88
FD56-1125-06-06	FD56-1125-06-06	FD56-1125-06-06	Plug/Male	3/8	3/8	3/8-18	Female NPT	1	35.6	1.40	-	-	22.4	0.88
FD56-1123-06-06	FD56-1201-06-06	FD56-1196-06-06	Socket/Female	3/8	3/8	3/8-18	Female NPT	2	54.6	2.15	31.2	1.23	25.4	1.00
FD56-1125-08-10	FD56-1125-08-10	FD56-1125-08-10	Plug/Male	5/8	1/2	1/2-14	Female NPT	1	48.0	1.89	-	-	26.9	1.06
FD56-1123-08-10	FD56-1201-08-10	FD56-1196-08-10	Socket/Female	5/8	1/2	1/2-14	Female NPT	2	66.3	2.61	38.1	1.50	30.2	1.19
FD56-1125-12-12	FD56-1125-12-12	FD56-1125-12-12	Plug/Male	3/4	3/4	3/4-14	Female NPT	1	57.9	2.28	-	-	35.1	1.38
FD56-1123-12-12	FD56-1201-12-12	FD56-1196-12-12	Socket/Female	3/4	3/4	3/4-14	Female NPT	2	82.6	3.25	46.0	1.81	38.1	1.50
FD56-1125-16-16	FD56-1125-16-16	FD56-1125-16-16	Plug/Male	1	1	1-11 1/2	Female NPT	1	70.4	2.77	-	-	41.1	1.62
FD56-1123-16-16	FD56-1201-16-16	FD56-1196-16-16	Socket/Female	1	1	1-11 1/2	Female NPT	2	97.0	3.82	53.3	2.10	42.9	1.69

Note: Incorporates a pusher device to open mating valved coupling halves.

Dimensions (Plug/Male Half, Female BSP/Valved)

Part/Order Number		Thread	Fig.	Dimensions					
Buna-N	Body Size			A	B	Hex ①			
				(mm)	(in)	(mm)	(in)	(mm)	(in)
G5623-4-4	1/4	G 1/4	1	34.0	1.34	-	-	19.0	0.75
G5623-6-6	3/8	G 3/8	1	38.0	1.50	-	-	23.0	0.91
G5623-8-10	5/8	G 1/2	1	44.0	1.73	-	-	27.0	1.06
G5623-12-12	3/4	G 3/4	1	55.0	2.17	-	-	35.0	1.38
G5623-16-16	1	G 1	1	64.0	2.52	-	-	41.0	1.61

5600 Series (Carbon Steel) ISO 7241-1 A Interchange

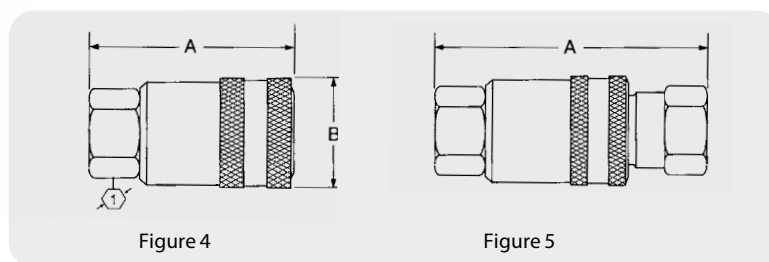


Figure 4

Figure 5

Dimensions (Socket/Female Half, Female BSP/Valved)

Part/Order Number Buna-N	Body Size	Thread	Fig.	Dimensions		B	Hex ①	
				A				
				(mm)	(in)	(mm)	(in)	(mm) (in)
G5622-4-4	1/4	G 1/4	2	48.0	1.89	26.3	1.04	22.0 0.87
G5622-6-6	3/8	G 3/8	2	56.0	2.20	30.0	1.18	27.0 1.06
G5622-8-10	5/8	G 1/2	2	66.0	2.60	38.3	1.51	27.0 1.06
G5622-12-12	3/4	G 3/4	2	82.5	3.25	48.0	1.89	40.0 1.57
G5622-16-16	1	G 1	2	98.0	3.86	53.0	2.09	50.0 1.97

Dimensions (Female NPT, Connect Under Pressure Style)

Part/Order Number Buna-N	FKM	EPDM	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		B	Hex ①	
									A				
									(mm)	(in)	(mm)	(in)	(mm) (in)
5602-8-10S	FD56-1062-08-10	5644-8-10S	Plug/Male	5/8	1/2	1/2-14	Female NPT	1	51.3	2.02	-	-	26.9 1.06
5651-8-10S	FD56-1070-08-10	565007-8-10S	Socket/Female	5/8	1/2	1/2-14	Female NPT	4	73.2	2.88	38.1	1.50	26.9 1.06
5650-8-10S	FD56-1071-08-10	565006-8-10S	Complete	5/8	1/2	1/2-14	Female NPT	5	98.8	3.89	-	-	- -
5602-12-10S	FD56-1062-12-10	5644-12-10S	Plug/Male	5/8	3/4	3/4-14	Female NPT	1	54.9	2.16	-	-	35.1 1.38
5651-12-10S	FD56-1070-12-10	565007-12-10S	Socket/Female	5/8	3/4	3/4-14	Female NPT	4	83.8	3.30	38.1	1.50	31.8 1.25
5650-12-10S	FD56-1071-12-10	565006-12-10S	Complete	5/8	3/4	3/4-14	Female NPT	5	113.0	4.45	-	-	- -

Dimensions (Female NPT, Non-Valved)

Part/Order Number Buna-N	FKM	EPDM	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		B	Hex ①	
									A				
									(mm)	(in)	(mm)	(in)	(mm) (in)
5610-4-4S	FD56-1072-04-04	560078-4-4S	Plug/Male	1/4	7/16	7/16-20	Female SAE	1	32.5	1.28	-	-	15.7 0.62
5608-4-4S	FD56-1074-04-04	FD56-1012-04-04S	Socket/Female	1/4	7/16	7/16-20	Female SAE	2	46.0	1.81	27.4	1.08	22.4 0.88
5606-4-4S	FD56-1075-04-04	FD56-1009-04-04S	Complete	1/4	7/16	7/16-20	Female SAE	3	64.3	2.53	-	-	- -
5610-6-6S	FD56-1072-06-06	560078-6-6S	Plug/Male	3/8	9/16	9/16-18	Female SAE	1	38.1	1.50	-	-	22.4 0.88
5608-6-6S	FD56-1074-06-06	FD56-1012-06-06S	Socket/Female	3/8	9/16	9/16-18	Female SAE	2	54.6	2.15	31.2	1.23	25.4 1.00
5606-6-6S	FD56-1075-06-06	FD56-1009-06-06S	Complete	3/8	9/16	9/16-18	Female SAE	3	72.1	2.84	-	-	- -
5610-8-10S	FD56-1072-08-10	560078-8-10S	Plug/Male	5/8	3/4	3/4-16	Female SAE	1	51.6	2.03	-	-	26.9 1.06
5608-8-10S	FD56-1074-08-10	FD56-1012-08-10S	Socket/Female	5/8	3/4	3/4-16	Female SAE	2	66.3	2.61	38.1	1.50	30.2 1.19
5606-8-10S	FD56-1075-08-10	FD56-1009-08-10S	Complete	5/8	3/4	3/4-16	Female SAE	3	96.0	3.78	-	-	- -
5610-10-10S	FD56-1072-10-10	560078-10-10S	Plug/Male	5/8	7/8	7/8-14	Female SAE	1	52.8	2.08	-	-	28.4 1.12
5608-10-10S	FD56-1074-10-10	FD56-1012-10-10S	Socket/Female	5/8	7/8	7/8-14	Female SAE	2	66.3	2.61	38.1	1.50	30.2 1.19
5606-10-10S	FD56-1075-10-10	FD56-1009-10-10S	Complete	5/8	7/8	7/8-14	Female SAE	3	98.6	3.88	-	-	- -
5610-12-12S	FD56-1072-12-12	560078-12-12S	Plug/Male	3/4	1	1 1/16-12	Female SAE	1	64.8	2.55	-	-	35.1 1.38
5608-12-12S	FD56-1074-12-12	FD56-1012-12-12S	Socket/Female	3/4	1	1 1/16-12	Female SAE	2	82.6	3.25	46.0	1.81	38.1 1.50
5606-12-12S	FD56-1075-12-12	FD56-1009-12-12S	Complete	3/4	1	1 1/16-12	Female SAE	3	115.8	4.56	-	-	- -
5610-16-16S	FD56-1072-16-16	560078-16-16S	Plug/Male	1	1	1 5/16-12	Female SAE	1	78.7	3.10	-	-	41.1 1.62
5608-16-16S	FD56-1074-16-16	FD56-1012-16-16S	Socket/Female	1	1	1 5/16-12	Female SAE	2	97.3	3.83	53.3	2.10	42.9 1.69
5606-16-16S	FD56-1075-16-16	FD56-1009-16-16S	Complete	1	1	1 5/16-12	Female SAE	3	140.7	5.54	-	-	- -

Dimensions (Female SAE O-Ring, Valved with Sleeve Lock)

Part/Order Number Buna-N	FKM	EPDM	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		B	Hex ①	
									A				
									(mm)	(in)	(mm)	(in)	(mm) (in)
FD56-1270-06-06	-	-	Socket/Female	3/8	9/16	9/16-18	Female SAE	3	54.6	2.15	31.8	1.23	25.4 1.00
FD56-1270-08-10	-	-	Socket/Female	5/8	3/4	3/4-16	Female SAE	3	66.3	2.61	38.1	1.50	30.2 1.19
FD56-1270-12-12	-	-	Socket/Female	3/4	1	1 1/16-12	Female SAE	3	82.6	3.25	46.7	1.81	38.1 1.50
FD56-1270-16-16	-	-	Socket/Female	1	1	1 5/16-12	Female SAE	3	97.0	3.82	54.1	2.10	42.9 1.69

5600 Series (Carbon Steel) ISO 7241-1 A Interchange

AMER region

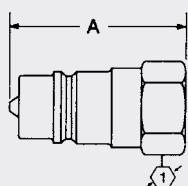


Figure 1

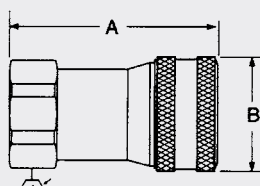


Figure 2

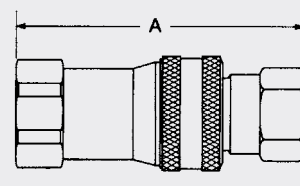


Figure 3

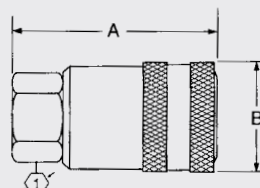


Figure 4

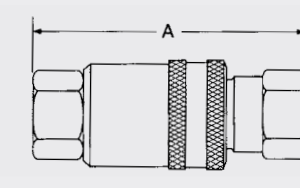


Figure 5

Dimensions (Female, SAE O-Ring Non-Valved)

Part/Order Number		Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions						
Buna-N	FKM							EPDM	A	B		Hex ^①		
								(mm)	(in)	(mm)	(in)	(mm)	(in)	
5620-8-10S	FD56-1221-08-10	FD56-1221-08-10	Plug/Male	5/8	3/4	3/4-16	Female SAE O-Ring	1	48.0	1.89	25.9	1.02	26.9	1.06
5691-8-10S	FD56-1233-08-10	FD56-1209-08-10	Socket/Female	5/8	3/4	3/4-16	Female SAE O-Ring	2	66.3	2.61	38.1	1.50	30.2	1.19
5690-8-10S	FD56-1234-08-10	FD56-1210-08-10	Complete	5/8	3/4	3/4-16	Female SAE O-Ring	3	96.0	3.78	-	-	-	-
5620-12-12S	FD56-1221-12-12	FD56-1221-12-12	Plug/Male	3/4	1	1 1/16-12	Female SAE O-Ring	1	57.9	2.28	30.7	1.21	35.1	1.38
5691-12-12S	FD56-1233-12-12	FD56-1209-12-12	Socket/Female	3/4	1	1 1/16-12	Female SAE O-Ring	2	82.6	3.25	46.0	1.81	38.1	1.50
5690-12-12S	FD56-1234-12-12	FD56-1210-12-12	Complete	3/4	1	1 1/16-12	Female SAE O-Ring	3	115.8	4.56	-	-	-	-
5620-16-16S	FD56-1221-16-16	FD56-1221-16-16	Plug/Male	1	1	1 5/16-12	Female SAE O-Ring	1	70.4	2.77	36.8	1.45	41.1	1.62
5691-16-16S	FD56-1233-16-16	FD56-1209-16-16	Socket/Female	1	1	1 5/16-12	Female SAE O-Ring	2	103.9	4.09	54.6	2.15	47.8	1.88
5690-16-16S	FD56-1234-16-16	FD56-1210-16-16	Complete	1	1	1 5/16-12	Female SAE O-Ring	3	140.0	5.51	-	-	-	-

Dust Caps

Part/Order Number	Body Size (in)
5657-4	1/4
5657-6	3/8
5657-10	5/8
5657-12	3/4
5657-16	1



Dust Cap

Break Away Frame

Part/Order Number	Body Size (in)
5603	5/8



Break Away Frame

Dust Plugs

Part/Order Number	Body Size (in)
5659-4	1/4
5659-6	3/8
5659-10	5/8
5659-12	3/4
5659-16	1



Dust Plug

5600 Series (Stainless Steel) ISO 7241-1 A Interchange

Fluid transfer & Hydraulic application



The Danfoss Hansen 5600 Series is a rugged poppet style ball locking quick disconnect coupling. As the original manufacturer of the ISO 7241-1 A style coupling, Danfoss has reinvented this quick disconnect coupling series to meet your application needs by offering a new stainless steel construction.

Global region

Product Features

- Self-sealing poppet valve provides excellent high and low pressure sealing
- Stainless steel construction offers excellent corrosion resistance in tough environments
- Standard body material: 303 stainless steel
- Standard body material: Nitrile (NBR). EPDM and FKM seals are available upon request
- Available sizes include: 5/8, 3/4, 1"*
- Female NPTF thread ends

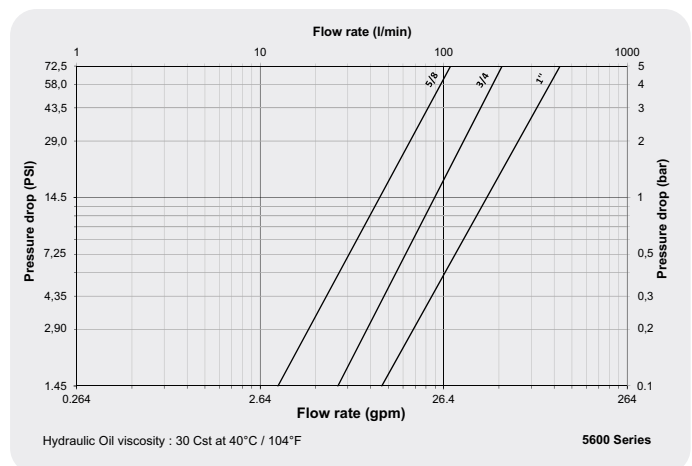
Physical characteristics

Body Size (in)	Max. Operating Pressure Connected		Min. Burst Pressure		Rated Flow		Air Inclusion cc. max.	Fluid Loss cc. max.
	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)		
5/8	207	3,000	621	9,000	45	12	2.8	2.8
3/4	207	3,000	621	9,000	106	28	10	8.2
1	207	3,000	621	9,000	189	50	14.2	14.2

Applications & Markets

- Hydraulic and Fluid Transfer
- Agricultural Equipment
- Construction Equipment
- Steel Mills
- Plant Manufacturing and Processing Equipment
- Dump, Snow Plow, and Maintenance Vehicles

Flow Data



H15000 Series ISO 7241-1 A Interchange

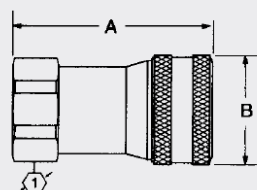


Figure 1

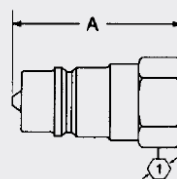


Figure 2

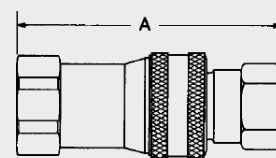


Figure 3

Female (socket)

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Hex ①	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
560024-8-10	Socket/Female	5/8	1/2-14 NPTF	1	66.3	2.61	38.1	1.5	30.2	1.19
560024-12-12	Socket/Female	3/4	3/4-14 NPTF	1	82.6	3.25	46.0	1.81	38.1	1.50
560024-16-16	Socket/Female	1	1 1/2-11 NPTF	1	97.0	3.82	53.3	2.1	42.9	1.69

Plugs (Male)

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Hex ①	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
560049-8-10	Plug/Male	5/8	1/2-14 NPTF	2	51.3	2.02	–	–	26.9	1.06
560049-12-12	Plug/Male	3/4	3/4-14 NPTF	2	64.8	2.55	–	–	35.1	1.38
560049-16-16	Plug/Male	1	1 1/2-11 NPTF	2	78.7	3.1	–	–	41.1	1.62

Complete Sets*

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A	
					(mm)	(in)
FD56-1001-08-10	Complete	5/8	1/2-14 NPTF	3	96.0	3.78
FD56-1001-12-12	Complete	3/4	3/4-14 NPTF	3	115.8	4.56
FD56-1001-16-16	Complete	1	1 1/2-11 NPTF	3	123.4	4.86

*Includes one socket/female and one plug/male half in the outlined size.

H5000 Series (Steel)

Fluid transfer & Hydraulic application



Danfoss Gromelle H5000 Series steel quick disconnect coupling is a pull to connect double shut-off coupling. Featuring the original profile, it remains as the series users prefer when it comes to severe hydraulic application such as high pressure, pressure impulses, heavy mechanical loads and frequent connection and disconnection cycles. The unique sleeve lock option offers a reliable solution and benefit to the end user when safety is a concern.

Product Features

- Proprietary profile
- Pull-to-connect with double shut-off valving
- Ball-locking
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminum)
- Pressure performance
- Standard body material: Zinc trivalent steel
- Standard seal material: NBR, FKM, EPDM
- The heat treatment of the plug and use of high strength steel for the socket sleeve provide superior mechanical and hydraulic performance. The design of the valve gives the coupling increased robustness when disconnected.

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*				Rated Flow**		Fluid Loss ml-cc.
		Non hazardous liquids & gases in Group 2		Hazardous liquids & gases in Group 1		(lpm)	(gpm)	
		(bar)	(psi)	(bar)	(psi)			
1/8	3.8	1,000	14,500	1,000	14,500	6.1	1.61	0.4
1/4	5.7	700	10,150	700	10,150	11.6	3.06	1
3/8	7.6	600	8,700	600	8,700	16.7	4.41	2
1/2	10.3	500	7,250	500	7,250	25.5	6.74	2.5
3/4	14.2	400	5,800	400	5,800	55	14.53	5.5
1	16.5	300	4,350	300	4,350	87	22.98	9
1 1/4	20.5	200	2,900	200	2,900	140	36.98	23
1 1/2	25.8	150	2,175	38	550	208	54.95	36
2	34.7	100	1,450	28	405	357	94.3	70

* For pulsating pressures when disconnected apply a multiplier of 0.5

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

European Pressure Equipment Directive

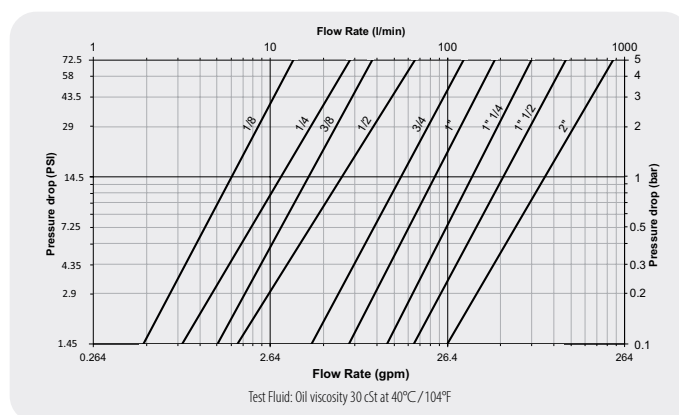
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive 2014/68/ EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food Processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General Hydraulic Applications

Flow Data



Seal Elastomer Data*

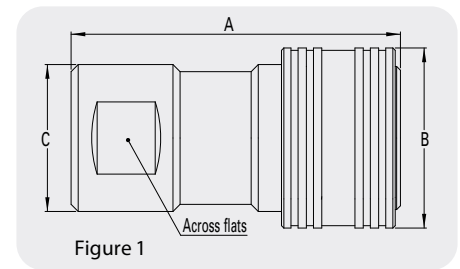
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/- 4°F +212°F
FKM	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Danfoss technical support for further information on fluid compatibility.

H5000 Series (Steel)



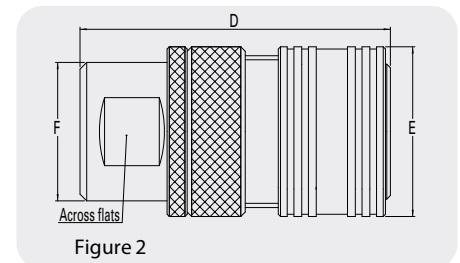
Sockets (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Fig.	Dimensions							Weight		
NBR*	FKM	EPDM			NPT	BSPP	Metric		A	B	C	Across flats				lbs	grams	
			(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
HA0500100	HA05001V0	HA05001E0	3/8	3.8	-	3/8-28	-	1	42	1.65	24	0.94	21	0.83	16	0.63	0.19	88
HA0520100	HA05201V0	HA05201E0	3/8	3.8	1/8-27	-	-	1	42	1.65	24	0.94	21	0.83	16	0.63	0.19	88
HA0530100	HA05301V0	HA05301E0	3/8	3.8	-	-	M10x100	1	42	1.65	24	0.94	21	0.83	16	0.63	0.19	88
HA0501100	HA05011V0	HA05011E0	1/4	5.7	-	1/4-19	-	1	50	1.97	28	1.10	24	0.94	19	0.75	0.27	122
HA0521100	HA05211V0	HA05211E0	1/4	5.7	1/4-18	-	-	1	50	1.97	28	1.10	24	0.94	19	0.75	0.27	122
HA0531100	HA05311V0	HA05311E0	1/4	5.7	-	-	M14x150	1	50	1.97	28	1.10	24	0.94	19	0.75	0.27	122
HA0502100	HA05021V0	HA05021E0	3/8	7.6	-	3/8-19	-	1	59	2.32	34	1.34	28	1.10	23	0.90	0.43	197
HA0522100	HA05221V0	HA05221E0	3/8	7.6	3/8-18	-	-	1	59	2.32	34	1.34	28	1.10	23	0.90	0.43	197
HA0532100	HA05321V0	HA05321E0	3/8	7.6	-	-	M18x150	1	59	2.32	34	1.34	28	1.10	23	0.90	0.43	197
HA0503100	HA05031V0	HA05031E0	1/2	10.3	-	1/2-14	-	1	69	2.71	38	1.50	31	1.22	27	1.06	0.50	226
HA0523100	HA05231V0	HA05231E0	1/2	10.3	1/2-14	-	-	1	69	2.71	38	1.50	31	1.22	27	1.06	0.50	226
HA0533100	HA05331V0	HA05331E0	1/2	10.3	-	-	M22x150	1	69	2.71	38	1.50	31	1.22	27	1.06	0.50	226
HA0504100	HA05041V0	HA05041E0	3/4	14.2	-	3/4-14	-	1	89	3.50	48	1.89	40	1.57	35	1.38	1.27	577
HA0524100	HA05241V0	HA05241E0	3/4	14.2	3/4-14	-	-	1	89	3.50	48	1.89	40	1.57	35	1.38	1.27	577
HA0534100	HA05341V0	HA05341E0	3/4	14.2	-	-	M27x150	1	89	3.50	48	1.89	40	1.57	35	1.38	1.27	577
HA0505100	HA05051V0	HA05051E0	1	16.5	-	1-11	-	1	99	3.89	52	2.05	45	1.77	41	1.61	1.59	720
HA0525100	HA05251V0	HA05251E0	1	16.5	1-11 1/2	-	-	1	99	3.89	52	2.05	45	1.77	41	1.61	1.59	720
-	HA05061V0	HA05061E0	1 1/4	20.5	-	1 1/4-11	-	1	132	5.20	75	2.95	62	2.44	55	2.16	4.77	2,165
-	HA05071V0	HA05071E0	1 1/2	25.8	-	1 1/2-11	-	1	150	5.90	85	3.35	75	2.95	65	2.56	7.72	3,500
-	HA05091V0	HA05091E0	2	34.7	-	2-11	-	1	170	6.69	97	3.82	85	3.35	75	2.95	10.67	4,840

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.



Sockets (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Fig.	Dimensions							Weight	
NBR*	FKM	EPDM			NPT	BSPP	Metric		D	E	F	Across flats				lbs	grams
			(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HA0500300	HA05003V0	HA05003E0	3/8	3.8	-	3/8-28	-	2	42	1.65	24	0.94	21	0.83	16	0.63	0.19 91
HA0520300	HA05203V0	HA05203E0	3/8	3.8	1/8-27	-	-	2	42	1.65	24	0.94	21	0.83	16	0.63	0.19 91
HA0530300	HA05303V0	HA05303E0	3/8	3.8	-	-	M10x100	2	42	1.65	24	0.94	21	0.83	16	0.63	0.19 91
HA0501300	HA05013V0	HA05013E0	1/4	5.7	-	1/4-19	-	2	50	1.97	28	1.10	24	0.94	19	0.75	0.27 134
HA0521300	HA05213V0	HA05213E0	1/4	5.7	1/4-18	-	-	2	50	1.97	28	1.10	24	0.94	19	0.75	0.27 134
HA0531300	HA05313V0	HA05313E0	1/4	5.7	-	-	M14x150	2	50	1.97	28	1.10	24	0.94	19	0.75	0.27 134
HA0502300	HA05023V0	HA05023E0	3/8	7.6	-	3/8-19	-	2	59	2.32	34	1.34	28	1.10	23	0.90	0.43 225
HA0522300	HA05223V0	HA05223E0	3/8	7.6	3/8-18	-	-	2	59	2.32	34	1.34	28	1.10	23	0.90	0.43 225
HA0532300	HA05323V0	HA05323E0	3/8	7.6	-	-	M18x150	2	59	2.32	34	1.34	28	1.10	23	0.90	0.43 225
HA0503300	HA05033V0	HA05033E0	1/2	10.3	-	1/2-14	-	2	69	2.71	38	1.50	31	1.22	27	1.06	0.50 310
HA0523300	HA05233V0	HA05233E0	1/2	10.3	1/2-14	-	-	2	69	2.71	38	1.50	31	1.22	27	1.06	0.50 310
HA0533300	HA05333V0	HA05333E0	1/2	10.3	-	-	M22x150	2	69	2.71	38	1.50	31	1.22	27	1.06	0.50 310
HA0504300	HA05043V0	HA05043E0	3/4	14.2	-	3/4-14	-	2	89	3.50	48	1.89	40	1.57	35	1.38	1.27 665
HA0524300	HA05243V0	HA05243E0	3/4	14.2	3/4-14	-	-	2	89	3.50	48	1.89	40	1.57	35	1.38	1.27 665
HA0534300	HA05343V0	HA05343E0	3/4	14.2	-	-	M27x150	2	89	3.50	48	1.89	40	1.57	35	1.38	1.27 665
HA0505300	HA05053V0	HA05053E0	1	16.5	-	1-11	-	2	99	3.89	52	2.05	45	1.77	41	1.61	1.59 813
HA0525300	HA05253V0	HA05253E0	1	16.5	1-11 1/2	-	-	2	99	3.89	52	2.05	45	1.77	41	1.61	1.59 813
-	HA05063V0	HA05063E0	1 1/4	20.5	-	1 1/4-11	-	2	132	5.20	75	2.95	62	2.44	55	2.16	4.77 2,230
-	HA05073V0	HA05073E0	1 1/2	25.8	-	1 1/2-11	-	2	150	5.90	85	3.35	75	2.95	65	2.56	7.72 3,585
-	HA05093V0	HA05093E0	2	34.7	-	2-11	-	2	170	6.69	97	3.82	85	3.35	75	2.95	10.67 5,658

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

H5000 Series (Brass)

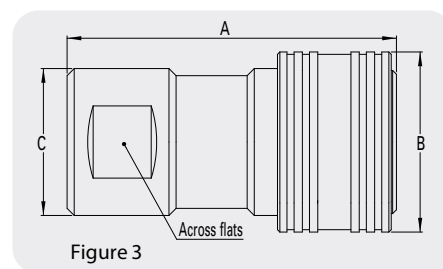


Figure 3

Plugs (Male)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Dimensions										Weight		
NBR*	FKM	EPDM			NPT	BSPP	Metric	Fig.	G	H	I	J	Hex 		lbs	grams				
			(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)			
HA0500200	HA05002V0	HA05002E0	1/8	3.8	-	1/8-28	-	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HA0520200	HA05202V0	HA05202E0	1/8	3.8	-	1/8-27	-	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HA0530200	HA05302V0	HA05302E0	1/8	3.8	-	-	M10x100	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HA0501200	HA05012V0	HA05012E0	1/4	5.7	-	1/4-19	-	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HA0521200	HA05212V0	HA05212E0	1/4	5.7	-	1/4-18	-	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HA0531200	HA05312V0	HA05312E0	1/4	5.7	-	-	M14x150	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HA0502200	HA05022V0	HA05022E0	3/8	7.6	-	3/8-19	-	3	42	1.65	19.0	0.75	26.4	1.04	18	0.7	23	0.90	0.15	70
HA0522200	HA05222V0	HA05222E0	3/8	7.6	-	3/8-18	-	3	42	1.65	19.0	0.75	26.4	1.04	18	0.7	23	0.90	0.15	70
HA0532200	HA05322V0	HA05322E0	3/8	7.6	-	-	M18x150	3	42	1.65	19.0	0.75	26.4	1.04	18	0.7	23	0.90	0.15	70
HA0503200	HA05032V0	HA05032E0	1/2	10.3	-	1/2-14	-	3	50	1.97	20.6	0.81	31.0	1.22	24	0.94	27	1.06	0.20	92
HA0523200	HA05232V0	HA05232E0	1/2	10.3	-	1/2-14	-	3	50	1.97	20.6	0.81	31.0	1.22	24	0.94	27	1.06	0.20	92
HA0533200	HA05332V0	HA05332E0	1/2	10.3	-	-	M22x150	3	50	1.97	20.6	0.81	31.0	1.22	24	0.94	27	1.06	0.20	92
HA0504200	HA05042V0	HA05042E0	3/4	14.2	-	3/4-14	-	3	63	2.48	27.9	1.10	40.2	1.58	28	1.10	35	1.38	0.48	217
HA0524200	HA05242V0	HA05242E0	3/4	14.2	-	3/4-14	-	3	63	2.48	27.9	1.10	40.2	1.58	28	1.10	35	1.38	0.48	217
HA0534200	HA05342V0	HA05342E0	3/4	14.2	-	-	M27x150	3	63	2.48	27.9	1.10	40.2	1.58	28	1.10	35	1.38	0.48	217
HA0505200	HA05052V0	HA05052E0	1	16.5	-	1-11	-	3	71	2.79	32.4	1.27	47.5	1.87	31	1.22	41	1.61	0.63	287
HA0525200	HA05252V0	HA05252E0	1	16.5	-	1-11½	-	3	71	2.79	32.4	1.27	47.5	1.87	31	1.22	41	1.61	0.63	287
-	HA05062V0	HA05062E0	1¼	20.5	-	1¼-11	-	3	97	3.82	46.9	1.85	63.2	2.49	48	1.89	55	2.16	1.98	900
-	HA05072V0	HA05072E0	1½	25.8	-	1½-11	-	3	109	4.29	56.0	2.20	74.7	2.94	52	2.04	65	2.56	3.30	1,500
-	HA05092V0	HA05092E0	2	34.7	-	2-11	-	3	121	4.76	65.0	2.56	84.0	3.30	50	1.97	75	2.95	4.06	1,840

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version ; add dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version.

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part/Order Number	Plug Dust Cap Part/Order Number
(in)	Anodized Aluminum	Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap

Seal Kit for Servicing Sockets (Female)

Body size		Seal & Back-up Ring Kit*				
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00	50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00	50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00	50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00	50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00	50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	HG 05061 00	15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	HG 05071 00	15 O-rings + 15 Backup rings	-	-	-	-
2	HG 05091 00	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits.

H5000 Series (Brass)

Fluid transfer & Hydraulic application



Danfoss Gromelle H5000 Series brass quick disconnect coupling is a pull to connect double shut-off coupling. It is a general purpose industrial quick disconnect coupling with the original profile. Mainly used in fluid transfer applications where stainless steel is not a requirement, it offers a good alternative for corrosion resistance.

Global region

Product Features

- Proprietary profile
- Pull-to-connect with double shut-off valving
- Ball-locking
- Pressure performance
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminum)
- Standard body material: Nickel-plated brass
- Standard seal material: NBR, FKM, EPDM

Physical characteristics

Body Size (in)	Nominal Flow Diameter* (mm)	Max. Operating Pressure**				Rated Flow***		Fluid Loss ml-cc.
		Hazardous and non hazardous liquids in Group 1&2 (bar) (psi)		Non hazardous gases in Group 2 (bar) (psi)		(lpm)	(gpm)	
1/8	3.8	300	4,350	300	4,350	6.1	1.61	0.4
1/4	5.7	230	3,335	230	3,335	11.6	3.06	1
3/8	7.6	175	2,535	175	2,535	16.7	4.41	2
1/2	10.3	150	2,175	150	2,175	25.5	6.74	2.5
3/4	14.2	125	1,810	125	1,810	55	14.53	5.5
1	16.5	100	1,450	100	1,450	87	22.98	9
1 1/4	20.5	70	1,015	70	1,015	140	36.98	23
1 1/2	25.8	50	725	50	725	208	54.95	36
2	34.7	40	290	28	406	357	94.3	70

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (PED 2014/68/EU).

** For pulsating pressures when disconnected apply a multiplier of 0.5.

*** Indicated values refer to a 1 bar/14.5 psi pressure drop.

European Pressure Equipment Directive

All couplings are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU.

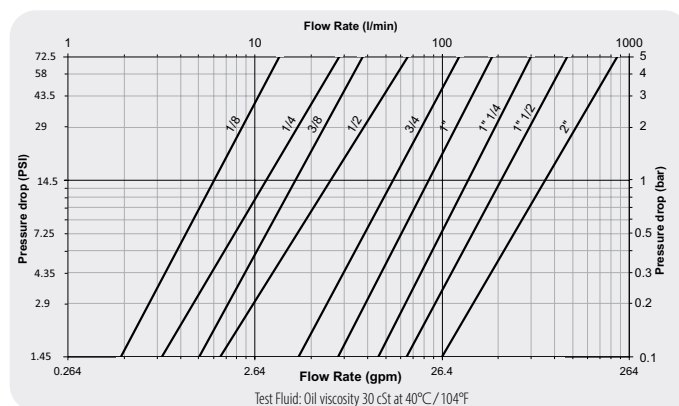
Couplings with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous).

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food Processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General Hydraulic Applications

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/- 4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Danfoss technical support for further information on fluid compatibility.

H5000 Series (Brass)

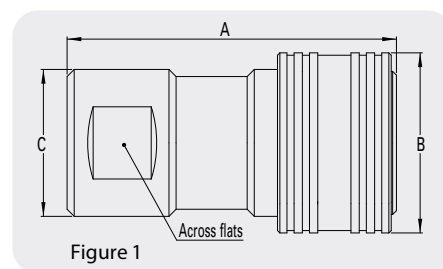


Figure 1

Sockets (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions								Weight	
NBR	FKM	EPDM				Fig.	A	B	C	Across flats				lbs	grams
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HL0500100	HL05001V0	HL05001E0	1/8	3.8	1/8-28	1	42	1.65	24	0.94	21	0.83	16	0.63	97
HL0501100	HL05011V0	HL05011E0	1/4	5.7	1/4-19	1	50	1.97	28	1.10	24	0.94	19	0.75	134
HL0502100	HL05021V0	HL05021E0	3/8	7.6	3/8-19	1	59	2.32	34	1.34	28	1.10	23	0.90	217
HL0503100	HL05031V0	HL05031E0	1/2	10.3	1/2-14	1	69	2.71	38	1.50	31	1.22	27	1.06	249
HL0504100	HL05041V0	HL05041E0	3/4	14.2	3/4-14	1	89	3.50	48	1.89	40	1.57	35	1.38	635
HL0505100	HL05051V0	HL05051E0	1	16.5	1-11	1	99	3.89	52	2.05	45	1.77	41	1.61	792
HL0506100	HL05061V0	HL05061E0	1 1/4	20.5	1 1/4-11	1	132	5.20	75	2.95	62	2.44	55	2.16	2,382
HL0507100	HL05071V0	HL05071E0	1 1/2	25.8	1 1/2-11	1	150	5.90	85	3.35	75	2.95	65	2.56	3,850
HL0509100	HL05091V0	HL05091E0	2	34.7	2-11	1	170	6.69	97	3.82	85	3.35	75	2.95	5,324

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.

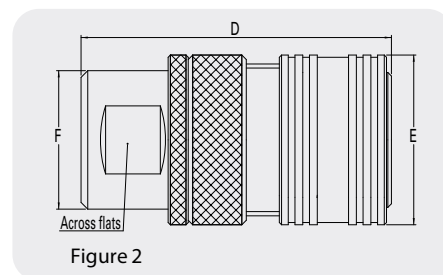


Figure 2

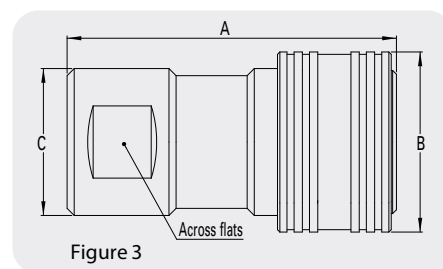
Sockets with Sleeve Lock (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Fig.	Dimensions							Weight		
NBR	FKM	EPDM					D	E	F	Across flats				lbs	grams	
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
HL0500300	HL05003V0	HL05003E0	⅛	3.8	⅛-28	2	42	1.65	24	0.94	21	0.83	16	0.63	0.22	100
HL0501300	HL05013V0	HL05013E0	¼	5.7	¼-19	2	50	1.97	28	1.10	24	0.94	19	0.75	0.33	148
HL0502300	HL05023V0	HL05023E0	⅜	7.6	⅜-19	2	59	2.32	34	1.34	28	1.10	23	0.90	0.55	248
HL0503300	HL05033V0	HL05033E0	½	10.3	½-14	2	69	2.71	38	1.50	31	1.22	27	1.06	0.75	341
HL0504300	HL05043V0	HL05043E0	¾	14.2	¾-14	2	89	3.50	48	1.89	40	1.57	35	1.38	1.61	732
HL0505300	HL05053V0	HL05053E0	1	16.5	1-11	2	99	3.89	52	2.05	45	1.77	41	1.61	1.97	894
HL0506300	HL05063V0	HL05063E0	1¼	20.5	1¼-11	2	132	5.20	75	2.95	62	2.44	55	2.16	5.41	2,453
HL0507300	HL05073V0	HL05073E0	1½	25.8	1½-11	2	150	5.90	85	3.35	75	2.95	65	2.56	8.69	3,944
HL0509300	HL05093V0	HL05093E0	2	34.7	2-11	2	170	6.69	97	3.82	85	3.35	75	2.95	13.72	6,224

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

H5000 Series (Steel)



Plugs (Male)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female) BSPP	Dimensions										Weight		
NBR*	FKM	EPDM				Fig.	G	H	I	J	Hex ①							
			(in)	(mm)		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams	
HA0500200	HA05002V0	HA05002E0	⅛	3.8	⅛-28	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HA0520200	HA05202V0	HA05202E0	⅛	3.8	-	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HA0530200	HA05302V0	HA05302E0	⅛	3.8	-	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HA0501200	HA05012V0	HA05012E0	¼	5.7	¼-19	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HA0521200	HA05212V0	HA05212E0	¼	5.7	-	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HA0531200	HA05312V0	HA05312E0	¼	5.7	-	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HA0502200	HA05022V0	HA05022E0	⅜	7.6	⅜-19	3	42	1.65	19.0	0.75	26.4	1.04	18	0.7	23	0.90	0.15	70
HA0522200	HA05222V0	HA05222E0	⅜	7.6	-	3	42	1.65	19.0	0.75	26.4	1.04	18	0.7	23	0.90	0.15	70
-	HA05092V0	HA05092E0	2	34.7	2-11	3	121	4.76	65.0	2.56	84.0	3.30	50	1.97	75	2.95	4.06	1,840

* Body sizes 1/4, 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version ; add dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version.

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part/Order Number	Plug Dust Cap Part/Order Number
(in)	Anodized Aluminum	Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body size	Seal & Back-up Ring Kit*					
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG0500100	50 O-rings + 50 Backup rings	HG05001V0	15 O-rings + 15 Backup rings	HG05001E0	15 O-rings + 15 Backup rings
1/4	HG0501100	50 O-rings + 50 Backup rings	HG05011V0	15 O-rings + 15 Backup rings	HG05011E0	15 O-rings + 15 Backup rings
3/8	HG0502100	50 O-rings + 50 Backup rings	HG05021V0	15 O-rings + 15 Backup rings	HG05021E0	15 O-rings + 15 Backup rings
1/2	HG0503100	50 O-rings + 50 Backup rings	HG05031V0	15 O-rings + 15 Backup rings	HG05031E0	15 O-rings + 15 Backup rings
3/4	HG0504100	50 O-rings + 50 Backup rings	HG05041V0	15 O-rings + 15 Backup rings	HG05041E0	15 O-rings + 15 Backup rings
1	HG0505100	50 O-rings + 50 Backup rings	HG05051V0	10 O-rings + 10 Backup rings	HG05051E0	10 O-rings + 10 Backup rings
1 1/4	HG0506100	15 O-rings + 15 Backup rings	HG05061V0	5 O-rings + 5 Backup rings	-	-
1 1/2	HG0507100	15 O-rings + 15 Backup rings	-	-	-	-
2	HG0509100	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits.

H5000 Series (Stainless Steel)

Fluid transfer & Hydraulic application



Danfoss Gromelle H5000 Series stainless steel quick disconnect coupling is a pull to connect double shutoff coupling. It is a general purpose industrial coupling with the original profile. It is mainly used in fluid transfer applications and provides excellent corrosion resistance.

Global region

Product Features

- Proprietary profile
- Pull-to-connect with doubleshutoff valving
- Ball-locking
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminum)
- Pressure performance
- Standard body material: AISI 316L Stainless steel
- Standard seal material: FKM, EPDM

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*		Rated Flow**		Fluid Loss ml-cc.
		Non hazardous liquids & gases Group 2 (bar)	Hazardous liquids & gases Group 1 (psi)	(lpm)	(gpm)	
1/8	3.8	300	4,350	6.1	1.61	0.4
1/4	5.7	230	3,335	11.6	3.06	1
3/8	7.6	175	2,535	16.7	4.41	2
1/2	10.3	150	2,175	25.5	6.74	2.5
3/4	14.2	125	1,810	55	14.53	5.5
1	16.5	100	1,450	87	22.98	9
1 1/4	20.5	100	1,450	140	36.98	23
1 1/2	25.8	75	1,085	208	54.95	36
2	34.7	40	580	357	94.30	70

* For pulsating pressures when disconnected apply a multiplier of 0.5.

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

European Pressure Equipment Directive

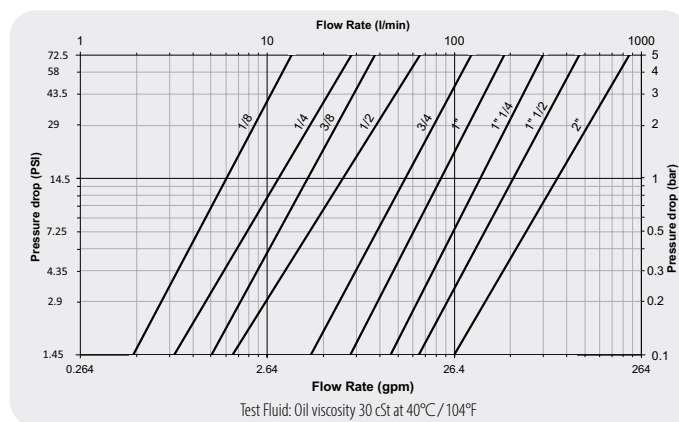
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food Processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General Hydraulic Applications

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
FKM	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5.

Contact Danfoss technical support for further information on fluid compatibility.

H5000 Series (Stainless Steel)

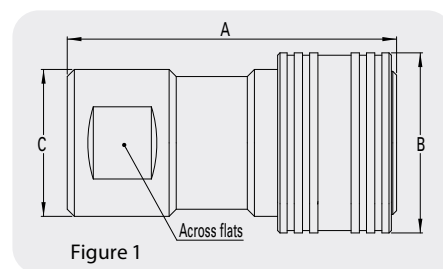


Figure 1

Sockets (Female)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)	BSPP	Dimensions								Weight		
FKM	EPDM					Fig.	A	B	C	Across flats			lbs	grams		
		(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
HZ05001V0	HZ05001E0	⅛	3.8	-	⅛-28	1	42	1.65	24	0.94	21	0.83	16	0.63	0.19	88
HZ05201V0	HZ05201E0	⅛	3.8	⅛-27	-	1	42	1.65	24	0.94	21	0.83	16	0.63	0.19	88
HZ05011V0	HZ05011E0	¼	5.7	-	¼-19	1	50	1.97	28	1.10	24	0.94	19	0.75	0.27	122
HZ05211V0	HZ05211E0	¼	5.7	¼-18	-	1	50	1.97	28	1.10	24	0.94	19	0.75	0.27	122
HZ05021V0	HZ05021E0	⅜	7.6	-	⅜-19	1	59	2.32	34	1.34	28	1.10	23	0.90	0.43	197
HZ05221V0	HZ05221E0	⅜	7.6	⅜-18	-	1	59	2.32	34	1.34	28	1.10	23	0.90	0.43	197
HZ05031V0	HZ05031E0	½	10.3	-	½-14	1	69	2.71	38	1.50	31	1.22	27	1.06	0.50	226
HZ05231V0	HZ05231E0	½	10.3	½-14	-	1	69	2.71	38	1.50	31	1.22	27	1.06	0.50	226
HZ05041V0	HZ05041E0	¾	14.2	-	¾-14	1	89	3.50	48	1.89	40	1.57	35	1.38	1.27	577
HZ05241V0	HZ05241E0	¾	14.2	¾-14	-	1	89	3.50	48	1.89	40	1.57	35	1.38	1.27	577
HZ05051V0	HZ05051E0	1	16.5	-	1-11	1	99	3.89	52	2.05	45	1.77	41	1.61	1.59	720
HZ05251V0	HZ05251E0	1	16.5	1-11½	-	1	99	3.89	52	2.05	45	1.77	41	1.61	1.59	720
HZ05061V0	HZ05061E0	1¼	20.5	-	1¼-11	1	132	5.20	75	2.95	62	2.44	55	2.16	4.77	2,165
HZ05071V0	HZ05071E0	1½	25.8	-	1½-11	1	150	5.90	85	3.35	75	2.95	65	2.56	7.72	3,500
HZ05091V0	HZ05091E0	2	34.7	-	2-11	1	170	6.69	97	3.82	85	3.35	75	2.95	10.67	4,840

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.

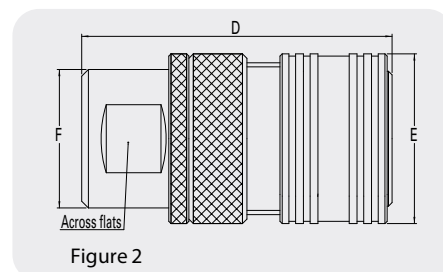


Figure 2

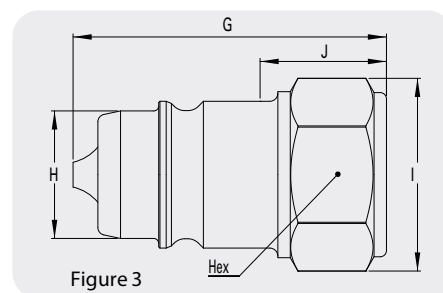
Sockets with Sleeve Lock (Female)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions								Weight		
FKM	EPDM				Fig.	D	E	F	Across flats		lbs	grams			
		(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)				
HZ05003V0	HZ05003E0	⅜	3.8	⅜-28	2	42	1.65	24	0.94	21	0.83	16	0.63	0.19	91
HZ05013V0	HZ05013E0	¼	5.7	¼-19	2	50	1.97	28	1.10	24	0.94	19	0.75	0.27	134
HZ05023V0	HZ05023E0	⅜	7.6	⅜-19	2	59	2.32	34	1.34	28	1.10	23	0.90	0.43	225
HZ05033V0	HZ05033E0	½	10.3	½-14	2	69	2.71	38	1.50	31	1.22	27	1.06	0.50	310
HZ05043V0	HZ05043E0	¾	14.2	¾-14	2	89	3.50	48	1.89	40	1.57	35	1.38	1.27	665
HZ05053V0	HZ05053E0	1	16.5	1-11	2	99	3.89	52	2.05	45	1.77	41	1.61	1.59	813
HZ05063V0	HZ05063E0	1 ¼	20.5	1¼-11	2	132	5.20	75	2.95	62	2.44	55	2.16	4.77	2,230
HZ05073V0	HZ05073E0	1½	25.8	1½-11	2	150	5.90	85	3.35	75	2.95	65	2.56	7.72	3,585
HZ05093V0	HZ05093E0	2	34.7	2-11	2	170	6.69	97	3.82	85	3.35	75	2.95	10.67	5,658

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

H5000 Series (Stainless Steel)



Plugs (Male)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female) NPT	BSPP	Dimensions										Weight		
FKM	EPDM					Fig.	G	H		I		J		Hex ①		lbs	grams	
		(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)				
HZ05002V0	HZ05002E0	⅜	3.8	-	⅜-28	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HZ05202V0	HZ05202E0	⅜	3.8	⅜-27	-	3	28	1.10	11.0	0.43	18.4	0.72	10	0.39	16	0.63	0.05	23
HZ05012V0	HZ05012E0	¼	5.7	-	¼-19	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HZ05212V0	HZ05212E0	¼	5.7	¼-18	-	3	35	1.38	14.2	0.56	21.8	0.86	14	0.55	19	0.75	0.08	37
HZ05022V0	HZ05022E0	⅜	7.6	-	⅜-19	3	42	1.65	19.0	0.75	26.4	1.04	18	0.70	23	0.90	0.15	70
HZ05222V0	HZ05222E0	⅜	7.6	⅜-18	-	3	42	1.65	19.0	0.75	26.4	1.04	18	0.70	23	0.90	0.15	70
HZ05032V0	HZ05032E0	½	10.3	-	½-14	3	50	1.97	20.6	0.81	31.0	1.22	24	0.94	27	1.06	0.20	92
HZ05232V0	HZ05232E0	½	10.3	½-14	-	3	50	1.97	20.6	0.81	31.0	1.22	24	0.94	27	1.06	0.20	92
HZ05042V0	HZ05042E0	¾	14.2	-	¾-14	3	63	2.48	27.9	1.10	40.2	1.58	28	1.10	35	1.38	0.48	217
HZ05242V0	HZ05242E0	¾	14.2	¾-14	-	3	63	2.48	27.9	1.10	40.2	1.58	28	1.10	35	1.38	0.48	217
HZ05052V0	HZ05052E0	1	16.5	-	1-11	3	71	2.79	32.4	1.27	47.5	1.87	31	1.22	41	1.61	0.63	287
HZ05252V0	HZ05252E0	1	16.5	1-11½	-	3	71	2.79	32.4	1.27	47.5	1.87	31	1.22	41	1.61	0.63	287
HZ05062V0	HZ05062E0	1¼	20.5	-	1¼-11	3	97	3.82	46.9	1.85	63.2	2.49	48	1.89	55	2.16	1.98	900
HZ05072V0	HZ05072E0	1½	25.8	-	1½-11	3	109	4.29	56.0	2.20	74.7	2.94	52	2.04	65	2.56	3.30	1,500
HZ05092V0	HZ05092E0	2	34.7	-	2-11	3	121	4.76	65.0	2.56	84.0	3.30	50	1.97	75	2.95	4.06	1,840

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version; add Dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version.

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part/Order Number	Plug Dust Cap Part/Order Number
(in)	Anodized Aluminum	Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body size		Seal & Back-up Ring Kit*				
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG0500100	50 O-rings + 50 Backup rings	HG05001V0	15 O-rings + 15 Backup rings	HG05001E0	15 O-rings + 15 Backup rings
1/4	HG0501100	50 O-rings + 50 Backup rings	HG05011V0	15 O-rings + 15 Backup rings	HG05011E0	15 O-rings + 15 Backup rings
3/8	HG0502100	50 O-rings + 50 Backup rings	HG05021V0	15 O-rings + 15 Backup rings	HG05021E0	15 O-rings + 15 Backup rings
1/2	HG0503100	50 O-rings + 50 Backup rings	HG05031V0	15 O-rings + 15 Backup rings	HG05031E0	15 O-rings + 15 Backup rings
3/4	HG0504100	50 O-rings + 50 Backup rings	HG05041V0	15 O-rings + 15 Backup rings	HG05041E0	15 O-rings + 15 Backup rings
1	HG0505100	50 O-rings + 50 Backup rings	HG05051V0	10 O-rings + 10 Backup rings	HG05051E0	10 O-rings + 10 Backup rings
1 1/4	HG0506100	15 O-rings + 15 Backup rings	HG05061V0	5 O-rings + 5 Backup rings	-	-
1 1/2	HG0507100	15 O-rings + 15 Backup rings	-	-	-	-
2	HG0509100	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits.

FD72/FD76 Series Connect Under Pressure—Farm

ISO 5675 Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen FD72 Series coupling incorporates special valving allowing connection to a FD76 Series male half under pressure. The maximum operating pressure is 3,000 psi. Contains an over travel, selfsealing poppet valve construction for connecting to a pressurized male tip. Applications require that the tractor control valve be actuated to open the flow path and to equalize the pressure.

AMER region

Product Features

- Push-to-connect for one-hand operation when sleeve is mounted
- Interchanges with ISO 5675 plug/male tips
- Retaining ring groove on socket/female half for bulkhead and breakaway frame mounting
- Standard seal material: Buna-N
- Standard body material: High resistance carbon steel with zinc trivalent plating

Physical characteristics

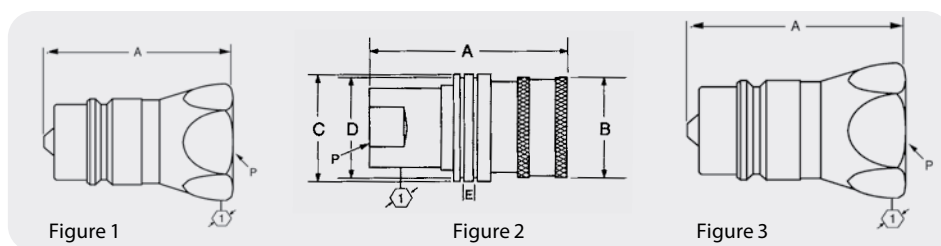
Body Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only	Rated Flow		Air Inclusion	Fluid Loss
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(lpm)	(gpm)	cc. max.	cc. max.
5/8	207	3,000	827	12,000	28	61	16	2.8	2.8

Dimensions (Female, SAE O-Ring Non-Valved)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions									
							A	B	C		D		E		Hex 	
Buna-N	Type						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD76-1002-08-10	Plug/Male	5/8	1/2	1/2-14	Female Pipe	1	52.1	2.05	—	—	—	—	—	—	26.9	1.06
FD72-1001-08-10	Socket/Female	5/8	1/2	1/2-14	Female Pipe	2	80.5	3.17	38.6	1.52	38.1	1.50	35.8	1.41	5.1	0.20
FD76-1010-08-10	Plug/Male	5/8	1/2	3/4-16	Female SAE O-Ring	3	52.1	2.05	—	—	—	—	—	—	27.0	1.06

Applications & Markets

- Hydraulic fluid transfer
- Agricultural equipment



Dust Caps

Part/Order Number	Body Size (in)
5657-10	5/8

Dust Plugs

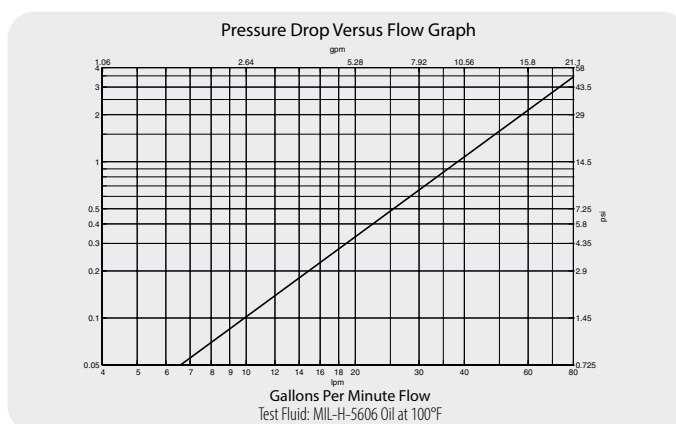
Part/Order Number	Body Size (in)
5659-10	5/8

Break Away Frame

Part/Order Number	Body Size (in)
5603	5/8



Flow Data



HK Series (Steel) ISO 7241-1 B Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen HK Series coupling sets the industry standard for ISO B Couplings. The HK Series features a rugged ball latch mechanism with automatic self-sealing poppet valves in a wide array of port configurations and multiple valved and non-valved configurations.

Global region

Product Features

- Meets dimensional requirements to ISO standard 7241-1 Series B
- The coupling that sets the industry standard
- Self-sealing poppet valve design provides excellent high and low pressure sealing
- Standard seal material: Nitrile (NBR)
- Seal options available in PTFE, Neoprene, FKM, EPDM, and Kalrez®
- Standard body material: Zinc trivalent plated steel with stainless steel springs, balls and retaining rings.
- PTFE back up rings in sockets (females)

Physical characteristics

Series	Body Size	ISO Size	Nominal Flow Diameter	Max. Operating Pressure		Rated Flow*		Air Inclusion	Fluid Loss
				Non hazardous liquids & gases Group 2	Hazardous liquids & gases Group 1	(lpm)	(gpm)		
	(in)	(mm)	(mm)	(bar)	(psi)			cc. max.	cc. max.
1HK	1/8	5.0	4.4	275	4,000	3	0.8	0.6	0.5
2HK	1/4	6.3	5.9	345	5,000	12	3	1.2	0.9
3HK	3/8	10.0	7.8	275	4,000	23	6	2.9	2.1
4HK	1/2	12.5	10.0	345	5,000	45	12	3.6	3.5
6HK	3/4	20.0	17.0	275	4,000	100	26	11.5	9.3
8HK	1	25.0	19.6	275	4,000	189	50	18.0	16.9
10HK	1 1/4**	—	26.7	200	2,900	288	76	48.0	48.0
12HK	1 1/2	40.0	35.1	150	2,175	375	99	91.3	91.3
20HK	2	50.0	46.0	100	1,450	757	200	209.9	209.9

* For questions related to vacuum please contact Danfoss.

** No ISO Standard available for the 10HK.

European Pressure Equipment Directive

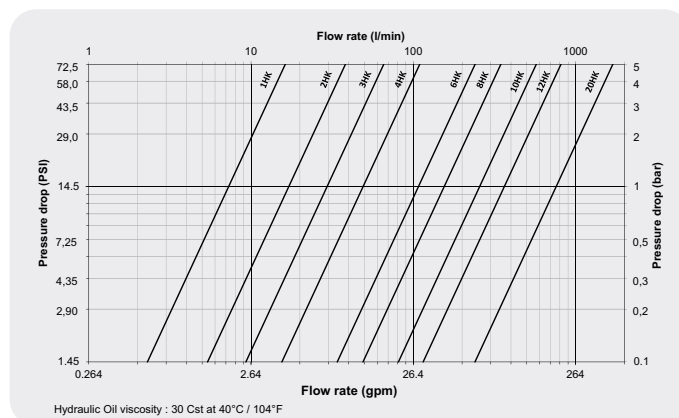
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Transportation
- Military
- Law Enforcement/Rescue
- Chemical
- Oil and Gas
- Consumer Products
- HVAC
- Food and Beverage
- Trucks
- Aerospace
- Medical

Flow Data



Seal Elastomer Data*

Seal Elastomer** Max. Operation Temperature Range

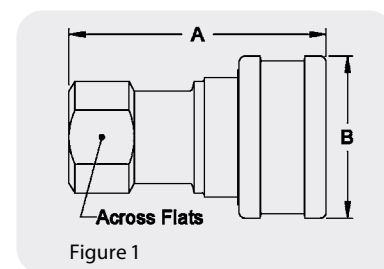
Nitrile (NBR)	-40°C to +121°C/40°F to +250°F
Neoprene	-54°C to +100°C/- 65°F to +212°F
EPDM	-54°C to +149°C/- 65°F to +300°F
FKM	-29°C to +204°C/- 15°F to +400°F

* For reference only, based on Danfoss recommended temperatures.

** For seals not listed contact Danfoss.

Contact Danfoss technical support for further information on fluid compatibility.

HK Series (Steel) ISO 7241-1 B Interchange

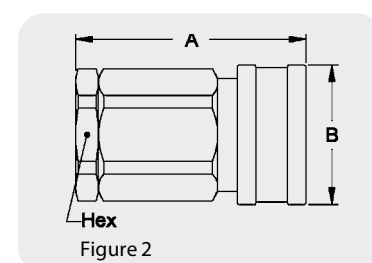


Sockets (Female)

Part/Order Number	Body Size	ISO Size	Thread Size (Female)			Dimensions						
			NPTF	BSPP	SAE	Fig.	A	B	Across flats			
HK1-8 Series	(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)
1H11	1/8	5.0	1/8-27	-	-	1	48.5	1.91	24.9	0.98	14.2	0.56
1H4	1/8	5.0	-	-	1/16-20	1	52.3	2.06	24.9	0.98	17.5	0.69
2H16	1/4	6.3	1/4-18	-	-	1	57.4	2.26	29.0	1.14	19.1	0.75
2H16BS	1/4	6.3	-	1/4-19	-	1	58.7	2.31	29.0	1.14	19.1	0.75
2H6	1/4	6.3	-	-	9/16-18	1	61.0	2.40	29.0	1.14	22.4	0.88
3H21	3/8	10.0	3/8-18	-	-	1	65.0	2.56	36.1	1.42	22.4	0.88
3H21BS	3/8	10.0	-	3/8-19	-	1	65.0	2.56	36.1	1.42	22.4	0.88
3H8	3/8	10.0	-	-	3/4-16	1	69.6	2.74	36.1	1.42	25.4	1.00
4HP26	1/2	12.5	1/2-14	-	-	1	75.2	2.96	47.2	1.86	28.7	1.13
4HP26BS	1/2	12.5	-	1/2-14	-	1	75.2	2.96	47.2	1.86	28.7	1.13
4HP10	1/2	12.5	-	-	7/8-14	1	77.5	3.05	47.2	1.86	31.8	1.25
6HP31	3/4	20.0	3/4-14	-	-	1	88.4	3.48	56.4	2.22	33.3	1.31
6HP31BS	3/4	20.0	-	3/4-14	-	1	88.4	3.48	56.4	2.22	33.3	1.31
6HP12	3/4	20.0	-	-	1 1/16-12	1	93.2	3.67	56.4	2.22	35.1	1.38
8HP36	1	25.0	1-11 1/2	-	-	1	104.9	4.13	66.3	2.61	44.5	1.75
8HP36BS	1	25.0	-	1-11	-	1	104.9	4.13	66.3	2.61	44.5	1.75
8HP16	1	25.0	-	-	1 1/16-12	1	104.9	4.13	66.3	2.61	47.8	1.88

A=Overall Length, B=Maximum Diameter

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.



Sockets (Female)

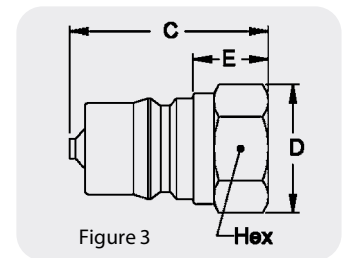
Part/Order Number	Body Size	ISO Size	Thread Size (Female)			Dimensions					
			NPTF	BSPP	Fig.	A	B	Hex			
HK10/12/20 Series	(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)
10H41*	1 1/4	-	1 1/4-11 1/2	-	2	114.6	4.51	69.3	2.73	60.5	2.38
10H41BS*	1 1/4	-	-	1 1/4-11	2	114.6	4.51	69.3	2.73	60.5	2.38
12H41	1 1/2	40	1 1/2-11 1/2	-	2	122.4	4.82	82.0	3.23	60.5	2.38
12H41BS	1 1/2	40	-	1 1/2-11	2	122.4	4.82	82.0	3.23	60.5	2.38
12H46	1 1/2	40	1 1/2-11 1/2	-	2	122.4	4.82	82.0	3.23	60.5	2.38
12H46BS	1 1/2	40	-	1 1/2-11	2	122.4	4.82	82.0	3.23	60.5	2.38
20H51	2 1/2	50	2-11 1/2	-	2	141.0	5.55	104.4	4.11	95.3	3.75
20H51BS	2 1/2	50	-	2-11	2	141.0	5.55	104.4	4.11	95.3	3.75
20H56	2 1/2	50	2 1/2-8	-	2	156.0	6.14	104.4	4.11	95.3	3.75
20H56BS	2 1/2	50	-	2 1/2-11	2	156.0	6.14	104.4	4.11	95.3	3.75
20H61	2 1/2	50	3-8	-	2	177.8	7.00	104.4	4.11	101.6	4.00
20H61BS	2 1/2	50	-	3-11	2	177.8	7.00	104.4	4.11	101.6	4.00

A=Overall Length, B=Maximum Diameter

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard.

To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.

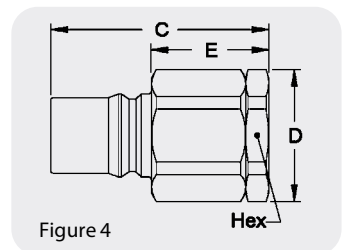
HK Series (Steel) ISO 7241-1 B Interchange



Plugs (Male)

Part/Order Number	Body Size	ISO	Thread Size (Female)			Fig.	Dimensions							
			NPTF	BSPP	SAE		C	D	E	Hex				
HK1-8 Series	(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
1K11	1/8	5.0	1/8-27	-	-	3	32.0	1.26	16.5	0.65	11.2	0.44	14.2	0.56
1K4	1/8	5.0	-	-	7/16-20	3	35.8	1.41	20.1	0.79	15.0	0.59	17.5	0.69
2K16	1/4	6.3	1/4-18	-	-	3	38.6	1.52	22.1	0.87	14.2	0.56	19.1	0.75
2K16BS	1/4	6.3	-	1/4-19	-	3	38.6	1.52	22.1	0.87	14.2	0.56	19.1	0.75
2K6	1/4	6.3	-	-	9/16-18	3	42.2	1.66	25.7	1.01	17.8	0.70	22.4	0.88
3K21	3/8	10.0	3/8-18	-	-	3	44.7	1.76	25.7	1.01	15.5	0.61	22.4	0.88
3K21BS	3/8	10.0	-	3/8-19	-	3	44.7	1.76	25.7	1.01	15.5	0.61	22.4	0.88
3K8	3/8	10.0	-	-	3/4-16	3	49.3	1.94	29.2	1.15	20.1	0.79	25.4	1.00
4KP26	1/2	12.5	1/2-14	-	-	3	51.6	2.03	33.0	1.30	19.3	0.76	28.7	1.13
4KP26BS	1/2	12.5	-	1/2-14	-	3	51.6	2.03	33.0	1.30	19.3	0.76	28.7	1.13
4KP10	1/2	12.5	-	-	7/8-14	3	53.6	2.11	34.8	1.37	21.3	0.84	30.2	1.19
6KP31	3/4	20.0	3/4-14	-	-	3	59.9	2.36	38.6	1.52	18.0	0.71	33.3	1.31
6KP31BS	3/4	20.0	-	3/4-14	-	3	59.9	2.36	38.6	1.52	18.0	0.71	33.3	1.31
6KP12	3/4	20.0	-	-	1 1/16-12	3	64.5	2.54	40.4	1.59	22.6	0.89	35.1	1.38
8KP36	1	25.0	1-11 1/2	-	-	3	72.4	2.85	47.8	1.88	24.6	0.97	41.4	1.63
8KP36BS	1	25.0	-	1-11	-	3	72.4	2.85	47.8	1.88	24.6	0.97	41.4	1.63
8KP16	1	25.0	-	-	1 1/16-12	3	72.4	2.85	55.1	2.17	24.6	0.97	47.8	1.88

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected
To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.



Plugs (Male)

Part/Order Number	Body Size	ISO	Thread Size (Female)			Fig.	Dimensions							
			NPTF	BSPP			C	D	E	Hex				
HK10/12/20 Series	(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
10K41*	1 1/4	-	1 1/4-11 1/2	-	-	4	108.0	4.25	69.6	2.74	59.2	2.33	60.5	2.38
10K41BS*	1 1/4	-	-	1 1/4-11	-	4	108.0	4.25	69.6	2.74	59.2	2.33	60.5	2.38
12K41	1 1/2	40	1 1/2-11 1/2	-	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
12K41BS	1 1/2	40	-	1 1/4-11	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
12K46	1 1/2	40	1 1/2-11 1/2	-	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
12K46BS	1 1/2	40	-	1 1/2-11	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
20K51	2 1/2	60	2-11 1/2	-	-	4	139.4	5.49	110.0	4.33	75.4	2.97	95.3	3.75
20K51BS	2 1/2	60	-	2-11	-	4	139.4	5.49	110.0	4.33	75.4	2.97	95.3	3.75
20K56	2 1/2	60	2 1/2-8	-	-	4	154.4	6.08	110.0	4.33	90.4	3.56	95.3	3.75
20K56BS	2 1/2	60	-	2 1/2-11	-	4	154.4	6.08	110.0	4.33	90.4	3.56	95.3	3.75
20K61	2 1/2	60	3-8	-	-	4	176.3	6.94	117.3	4.62	112.3	4.42	101.6	4.00
20K61BS	2 1/2	60	-	3-11	-	4	176.3	6.94	117.3	4.62	112.3	4.42	101.6	4.00

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected
*ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard.
To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part/Order No.		Socket Dust Plug Part/Order No.	
	Metal	Vinyl	Metal	Vinyl
1HK	XPDC1HK*	XPPDC1HK	SDC1HK*	XPSDC1HK
2HK	XPDC2HK*	XPPDC2HK	SDC2HK*	XPSDC2HK
3HK	XPDC3HK*	XPPDC3HK	SDC3HK*	XPSDC3HK
4HK	XPDC4HK**	XPPDC4HK(RD)***	SDC4HK**	XPSDC4HK(RD)***
6HK	XPDC6HK**	XPPDC6HK(RD)***	SDC6HK**	XPSDC6HK(RD)***
8HK	XPDC8HK**	XPPDC8HK(RD)***	SDC8HK**	XPSDC8HK(RD)***
12HK	XPDC12HK*		SDC12HK*	
20HK	XPDC20HK**		SDC20HK**	

*Brass **Aluminum ***Offered in red by adding RD to end of part number.



HK Series (Brass) ISO 7241-1 B Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen HK brass is a general purpose industrial interchange coupling available in valved or non-valved designs, offered in brass for excellent corrosion resistance in rugged applications where stainless steel is unacceptable. The HK Series features a ball latch mechanism with automatic self-sealing poppet valves.

Global region

Product Features

- Meets dimensional requirements to ISO standard 7241-1 Series B
- Brass construction with stainless steel springs for greater corrosion resistance and fluid compatibility
- Self-sealing poppet valves provide excellent high and low pressure sealing
- Standard seal material: Nitrile (NBR)
- Seal options available in PTFE, Neoprene, FKM, EPDM, and Kalrez®

Physical characteristics

Series	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Hazardous liquids & gases Group 1		Rated Flow*		Air Inclusion cc. max.	Fluid Loss cc. max.
				Non hazardous liquids & gases Group 2				(lpm)	(gpm)		
				(bar)	(psi)	(bar)	(psi)				
1HK	⅛	5.0	4.4	207	3,000	207	3,000	3	0.8	0.6	0.5
2HK	¼	6.3	5.9	186	2,700	186	2,700	12	3	1.2	0.9
3HK	⅜	10.0	7.8	152	2,200	152	2,200	23	6	2.9	2.1
4HK	½	12.5	10.0	155	2,250	155	2,250	45	12	3.6	3.5
6HK	¾	20.0	17.0	138	2,000	138	2,000	100	26	11.5	9.3
8HK	1	25.0	19.6	103	1,500	103	1,500	189	50	18.0	16.9
10HK	1¼**	—	26.7	83	1,200	37	537	288	76	48.0	48.0
12HK	1½	40.0	35.1	104	1,500	29	421	375	99	91.3	91.3
20HK	2	50.0	46.0	49	700	21	305	757	200	209.9	209.9

* For questions related to vacuum please contact Danfoss.

** No ISO Standard available for the 10HK.

European Pressure Equipment Directive

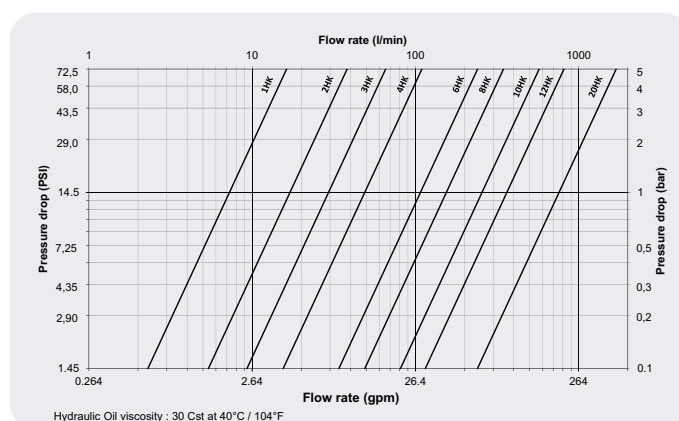
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Chemical
- Oil and Gas
- Transportation
- Food and Beverage
- Trucks
- Nuclear

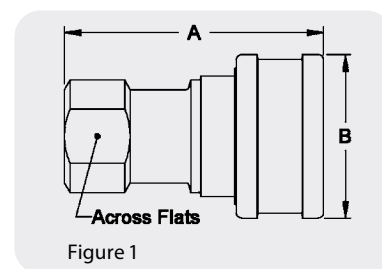
Flow Data



Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
Nitrile (NBR)	-40°C to +121°C/40°F to +250°F
Neoprene	-54°C to +100°C/- 65°F to +212°F
EPDM	-54°C to +149°C/-65°C to +300°F
FKM	-29°C to +204°C/- 15°F to +400°F

* For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

HK Series (Brass) ISO 7241-1 B Interchange

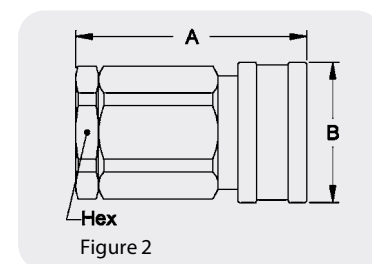


Sockets (Female)

Part/Order Number			Thread Size (Female)			Dimensions					
HK1-8 Series	Body Size	ISO Size	NPTF	BSPP	Fig.	A	B			Across flats	
	(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)
B1H11	⅛	5.0	⅛-27	-	1	48.5	1.91	24.9	0.98	14.2	0.56
B2H16	¼	6.3	¼-18	-	1	57.4	2.26	29.0	1.14	19.1	0.75
B2H16BS	¼	6.3	-	¼-19	1	58.7	2.31	29.0	1.14	19.1	0.75
B3H21	⅜	10.0	⅜-18	-	1	65.0	2.56	36.1	1.42	22.4	0.88
B3H21BS	⅜	10.0	-	⅜-19	1	65.0	2.56	36.1	1.42	22.4	0.88
B4HP26	½	12.5	½-14	-	1	75.2	2.96	47.2	1.86	28.7	1.13
B4HP26BS	½	12.5	-	½-14	1	75.2	2.96	47.2	1.86	28.7	1.13
B6HP31	¾	20.0	¾-14	-	1	88.4	3.48	56.4	2.22	33.3	1.31
B6HP31BS	¾	20.0	-	¾-14	1	88.4	3.48	56.4	2.22	33.3	1.31
B8HP36	1	25.0	1-11½	-	1	104.9	4.13	66.3	2.61	44.5	1.75
B8HP36BS	1	25.0	-	1-11	1	104.9	4.13	66.3	2.61	44.5	1.75

A=Overall Length, B=Maximum Diameter

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.



Sockets (Female)

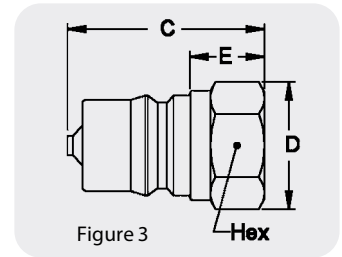
Part/Order Number			Thread Size (Female)			Dimensions					
HK10/12/20 Series	Body Size	ISO Size	NPTF	BSPP	Fig.	A		B	Hex		
	(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)
B10H41*	1¼	-	1¼-11½	-	2	114.6	4.51	69.3	2.73	60.5	2.38
B12H41	1½	40	1¼-11½	-	2	122.4	4.82	82.0	3.23	60.5	2.38
B12H41BS	1½	40	-	1¼-11	2	122.4	4.82	82.0	3.23	60.5	2.38
B12H46	1½	40	1½-11	-	2	122.4	4.82	82.0	3.23	60.5	2.38
B12H46BS	1½	40	-	1½-11	2	122.4	4.82	82.0	3.23	60.5	2.38
B20H51	2½	50	2-11½	-	2	141.0	5.55	104.4	4.11	95.3	3.75
B20H51BS	2½	50	-	2-11	2	141.0	5.55	104.4	4.11	95.3	3.75
B20H56	2½	50	2½-8	-	2	156.0	6.14	104.4	4.11	95.3	3.75
B20H56BS	2½	50	-	2½-11	2	156.0	6.14	104.4	4.11	95.3	3.75
B20H61	2½	50	3-8	-	2	177.8	7.00	104.4	4.11	101.6	4.00
B20H61BS	2½	50	-	3-11	2	177.8	7.00	104.4	4.11	101.6	4.00

A=Overall Length, B=Maximum Diameter

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard.

To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.

HK Series (Brass) ISO 7241-1 B Interchange

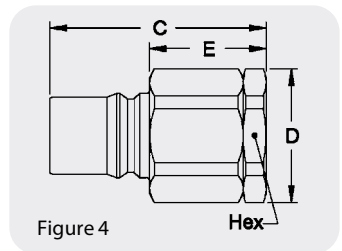


Plugs (Male)

Part/Order Number	Body Size	Thread Size (Female)				Dimensions							
HK1-8 Series		ISO	NPTF	BSPP	Fig.	C		D		E		Hex	
	(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
B1K11	⅛	5.0	⅛-27	-	3	32.0	1.26	16.5	0.65	11.2	0.44	14.2	0.56
B2K16	¼	6.3	¼-18	-	3	38.6	1.52	22.1	0.87	14.2	0.56	19.1	0.75
B2K16BS	¼	6.3	-	¼-19	3	38.6	1.52	22.1	0.87	14.2	0.56	19.1	0.75
B3K21	⅜	10.0	⅜-18	-	3	44.7	1.76	25.7	1.01	15.5	0.61	22.4	0.88
B3K21BS	⅜	10.0	-	⅜-19	3	44.7	1.76	25.7	1.01	15.5	0.61	22.4	0.88
B4KP26	½	12.5	½-14	-	3	51.6	2.03	33.0	1.30	19.3	0.76	28.7	1.13
B4KP26BS	½	12.5	-	½-14	3	51.6	2.03	33.0	1.30	19.3	0.76	28.7	1.13
B6KP31	¾	20.0	¾-14	-	3	59.9	2.36	38.6	1.52	18.0	0.71	33.3	1.31
B6KP31BS	¾	20.0	-	¾-14	3	59.9	2.36	38.6	1.52	18.0	0.71	33.3	1.31
B8KP36	1	25.0	1-11½	-	3	72.4	2.85	47.8	1.88	24.6	0.97	41.4	1.63
B8KP36BS	1	25.0	-	1-11	3	72.4	2.85	47.8	1.88	24.6	0.97	41.4	1.63

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected

T to obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.



Plugs (Male)

Part/Order Number	Body Size	ISO	Thread Size (Female)			Dimensions							
HK10/12/20 Series			NPTF	BSPP	Fig.	C	D	E			Hex		
	(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
B10K41*	1¼	-	1¼-11½	-	4	108.0	4.25	69.6	2.74	59.2	2.33	60.5	2.38
B12K41	1½	40	1¼-11½	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
B12K41BS	1½	40	-	1¼-11	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
B12K46	1½	40	1½-11½	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
B12K46BS	1½	40	-	1½-11	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
B20K51	2½	50	2-11½	-	4	139.4	5.49	110.0	4.33	75.4	2.97	95.3	3.75
B20K51BS	2½	50	-	2-11	4	139.4	5.49	110.0	4.33	75.4	2.97	95.3	3.75
B20K56	2½	50	2½-8	-	4	154.4	6.08	110.0	4.33	90.4	3.56	95.3	3.75
B20K56BS	2½	50	-	2½-11	4	154.4	6.08	110.0	4.33	90.4	3.56	95.3	3.75
B20K61	2½	50	3-8	-	4	176.3	6.94	117.3	4.62	112.3	4.42	101.6	4.00
B20K61BS	2½	50	-	3-11	4	176.3	6.94	117.3	4.62	112.3	4.42	101.6	4.00

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard.

To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part/Order No.		Socket Dust Plug Part/Order No.	
	Metal	Vinyl	Metal	Vinyl
1HK	XPDC1HK*	XPPDC1HK	SDC1HK*	XPSDC1HK
2HK	XPDC2HK*	XPPDC2HK	SDC2HK*	XPSDC2HK
3HK	XPDC3HK*	XPPDC3HK	SDC3HK*	XPSDC3HK
4HK	XPDC4HK**	XPPDC4HK(RD)***	SDC4HK**	XPSDC4HK(RD)***
6HK	XPDC6HK**	XPPDC6HK(RD)***	SDC6HK**	XPSDC6HK(RD)***
8HK	XPDC8HK**	XPPDC8HK(RD)***	SDC8HK**	XPSDC8HK(RD)***
12HK	XPDC12HK*		SDC12HK*	
20HK	XPDC20HK**		SDC20HK**	

*Brass **Aluminum ***Offered in red by adding RD to end of part number.



HK Series (Stainless Steel) ISO 7241-1 B Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen HK stainless steel coupling is a general purpose industrial interchange coupling available in valved or non-valved designs, offered in 303/316 grades of stainless steel for excellent corrosion resistance in rugged applications. The HK Series features a ball latch mechanism with automatic self-sealing poppet valves.

Global region

Product Features

- Meets dimensional requirements to ISO standard 7241-1 Series B
- 303/316 Stainless steel construction for greater corrosion resistance and fluid compatibility
- Self-sealing poppet valves provide excellent high and low pressure sealing
- Standard body material: 303 or 316 Stainless Steel
- Standard seal material: Nitrile (NBR)
- Seal options available in PTFE, Neoprene, FKM, EPDM, and Kalrez®

Physical characteristics

Series	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Rated Flow*		Air Inclusion cc. max.	Fluid Loss cc. max.
				Non hazardous liquids & gases Group 2 (bar)	Hazardous liquids & gases Group 1 (psi)	(lpm)	(gpm)		
1HK	1/8	5.0	4.4	344	5,000	3	0.8	0.6	0.5
2HK	1/4	6.3	5.9	255	3,700	12	3	1.2	0.9
3HK	3/8	10.0	7.8	255	3,700	23	6	2.9	2.1
4HK	1/2	12.5	10.0	293	4,250	45	12	3.6	3.5
6HK	3/4	20.0	17.0	242	3,500	100	26	11.5	9.3
8HK	1	25.0	19.6	207	3,000	189	50	18.0	16.9
10HK	1 1/4**	—	26.7	118	1,700	288	76	48.0	48.0
12HK	1 1/2	40.0	35.1	152	2,200	375	99	91.3	91.3
20HK	2	50.0	46.0	104	1,500	757	200	209.9	209.9

* For questions related to vacuum please contact Danfoss.

** No ISO Standard available for the 10HK.

European Pressure Equipment Directive

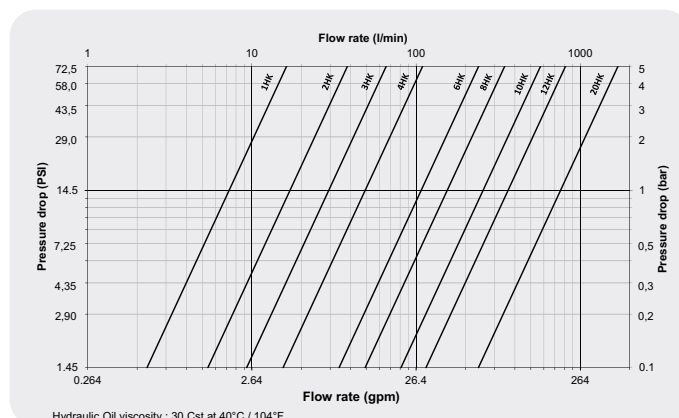
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Transportation
- Military
- Law Enforcement/Rescue
- Chemical
- Oil and Gas
- Consumer Products
- HVAC
- Food and Beverage
- Trucks
- Aerospace
- Medical

Flow Data

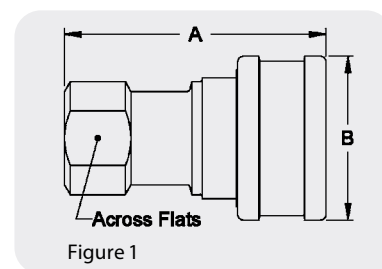


Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
Nitrile (NBR)	-40°C to +121°C/40°F to +250°F
Neoprene	-54°C to +100°C/- 65°F to +212°F
EPDM	-54°C to +149°C/-65°C to +300°F
FKM	-29°C to +204°C/- 15°F to +400°F

*For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

HK Series (Stainless Steel) ISO 7241-1 B Interchange

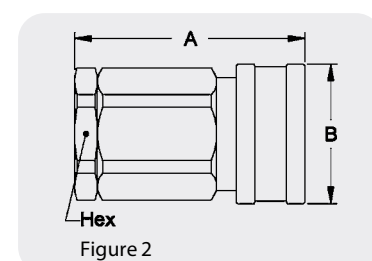


Sockets (Female)

Part/Order Number HK1-8 Series 303 Stainless Steel	316 Stainless Steel	Body Size	ISO Size	Thread Size (Female)			Dimensions						
				NPTF	BSPP	SAE	Fig.	A	B		Across flats		
		(in)	(in)					(mm)	(in)	(mm)	(in)	(mm)	(in)
LL1H11	ML1H11	⅛	5.0	⅛-27	-	-	1	48.5	1.91	24.9	0.98	14.2	0.56
LL1H4	-	⅛	5.0	-	-	7/16-20	1	52.3	2.06	24.9	0.98	17.5	0.69
LL2H16	ML2H16	¼	6.3	¼-18	-	-	1	57.4	2.26	29.0	1.14	19.1	0.75
LL2H16BS	ML2H16BS	¼	6.3	-	¼-19	-	1	58.7	2.31	29.0	1.14	19.1	0.75
LL2H6	-	¼	6.3	-	-	9/16-18	1	61.0	2.40	29.0	1.14	22.4	0.88
LL3H21	ML3H21	⅜	10.0	⅜-18	-	-	1	65.0	2.56	36.1	1.42	22.4	0.88
LL3H21BS	ML3H21BS	⅜	10.0	-	⅜-19	-	1	65.0	2.56	36.1	1.42	22.4	0.88
LL3H8	-	⅜	10.0	-	-	¾-16	1	69.6	2.74	36.1	1.42	25.4	1.00
LL4HP26	ML4HP26	½	12.5	½-14	-	-	1	75.2	2.96	47.2	1.86	28.7	1.13
LL4HP26BS	ML4HP26BS	½	12.5	-	½-14	-	1	75.2	2.96	47.2	1.86	28.7	1.13
LL4HP10	-	½	12.5	-	-	7/8-14	1	77.5	3.05	47.2	1.86	31.8	1.25
LL6HP31	ML6HP31	¾	20.0	¾-14	-	-	1	88.4	3.48	56.4	2.22	33.3	1.31
LL6HP31BS	ML6HP31BS	¾	20.0	-	¾-14	-	1	88.4	3.48	56.4	2.22	33.3	1.31
LL6HP12	-	¾	20.0	-	-	1⅛-12	1	93.2	3.67	56.4	2.22	35.1	1.38
LL8HP36	ML8HP36	1	25.0	1-11½	-	-	1	104.9	4.13	66.3	2.61	44.5	1.75
LL8HP36BS	ML8HP36BS	1	25.0	-	1-11	-	1	104.9	4.13	66.3	2.61	44.5	1.75
LL8HP16	-	1	25.0	-	-	1⅛-12	1	104.9	4.13	66.3	2.61	47.8	1.88

A=Overall Length, B=Maximum Diameter

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.



Sockets (Female)

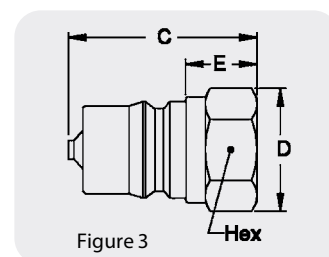
Part/Order Number HK10/12/20 Series 303 Stainless Steel	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Dimensions					
			NPTF	BSPP	Fig.	A (mm)	(in)	B (mm)	(in)	Hex (mm)	(in)
LL10H41*	1 1/4	-	1 1/4-11 1/2	-	2	114.6	4.51	69.3	2.73	60.5	2.38
LL10H41BS*	1 1/4	-	-	1 1/4-11	2	114.6	4.51	69.3	2.73	60.5	2.38
LL12H41	1 1/2	40	1 1/4 - 11 1/2	-	2	122.4	4.82	82.0	3.23	60.5	2.38
LL12H41BS	1 1/2	40	-	1 1/4-11	2	122.4	4.82	82.0	3.23	60.5	2.38
LL12H46	1 1/2	40	1 1/2-11 1/2	-	2	122.4	4.82	82.0	3.23	60.5	2.38
LL12H46BS	1 1/2	40	-	1 1/2-11	2	122.4	4.82	82.0	3.23	60.5	2.38
LL20H51	2 1/2	50	2-11 1/2	-	2	141.0	5.55	104.4	4.11	95.3	3.75
LL20H51BS	2 1/2	50	-	2-11	2	141.0	5.55	104.4	4.11	95.3	3.75
LL20H56	2 1/2	50	2 1/2-8	-	2	156.0	6.14	104.4	4.11	95.3	3.75
LL20H56BS	2 1/2	50	-	2 1/2-11	2	156.0	6.14	104.4	4.11	95.3	3.75
LL20H61	2 1/2	50	3-8	-	2	177.8	7.00	104.4	4.11	101.6	4.00
LL20H61BS	2 1/2	50	-	3-11	2	177.8	7.00	104.4	4.11	101.6	4.00

A=Overall Length, B=Maximum Diameter

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard.

To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.

HK Series (Stainless Steel) ISO 7241-1 B Interchange

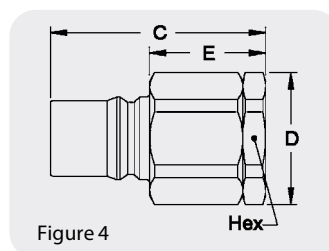


Plugs (Male)

Part/Order Number HK1-8 Series 303	316	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Dimensions							
				NPTF	BSPP	SAE	Fig.	C	D	E	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
LL1K11	ML1K11	1/8	5.0	1/8-27	-	-	3	32.0	1.26	16.5	0.65	11.2	0.44	14.2
LL1K4	-	1/8	5.0	-	-	7/16-20	3	35.8	1.41	20.1	0.79	15.0	0.59	17.5
LL2K16	ML2K16	1/4	6.3	1/4-18	-	-	3	38.6	1.52	22.1	0.87	14.2	0.56	19.1
LL2K16BS	ML2K16BS	1/4	6.3	-	1/4-19	-	3	38.6	1.52	22.1	0.87	14.2	0.56	19.1
LL2K6	-	1/4	6.3	-	-	9/16-18	3	42.2	1.66	25.7	1.01	17.8	0.70	22.4
LL3K21	ML3K21	3/8	10.0	3/8-18	-	-	3	44.7	1.76	25.7	1.01	15.5	0.61	22.4
LL3K21BS	ML3K21BS	3/8	10.0	-	3/8-19	-	3	44.7	1.76	25.7	1.01	15.5	0.61	22.4
LL3K8	-	3/8	10.0	-	-	3/4-16	3	49.3	1.94	29.2	1.15	20.1	0.79	25.4
LL4K26	ML4K26	1/2	12.5	1/2-14	-	-	3	51.6	2.03	33.0	1.30	19.3	0.76	28.7
LL4K26BS	ML4K26BS	1/2	12.5	-	1/2-14	-	3	51.6	2.03	33.0	1.30	19.3	0.76	28.7
LL4K10	-	1/2	12.5	-	-	7/8-14	3	53.6	2.11	34.8	1.37	21.3	0.84	30.2
LL6K31	ML6K31	3/4	20.0	3/4-14	-	-	3	59.9	2.36	38.6	1.52	18.0	0.71	33.3
LL6K31BS	ML6K31BS	3/4	20.0	-	3/4-14	-	3	59.9	2.36	38.6	1.52	18.0	0.71	33.3
LL6K12	-	3/4	20.0	-	-	1 1/16-12	3	64.5	2.54	40.4	1.59	22.6	0.89	35.1
LL8K36	ML8K36	1	25.0	1-11 1/2	-	-	3	72.4	2.85	47.8	1.88	24.6	0.97	41.4
LL8K36BS	ML8K36BS	1	25.0	-	1-11	-	3	72.4	2.85	47.8	1.88	24.6	0.97	41.4
LL8K16	-	1	25.0	-	-	1 1/8-12	3	72.4	2.85	55.1	2.17	24.6	0.97	47.8

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.



Plugs (Male)

Part/Order Number HK10/12/20 Series 303 Stainless Steel	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Dimensions							
			NPTF	BSPP	Fig.	C	D	E	Hex				
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
LL10K41*	1 1/4	-	1 1/4-11 1/2	-	4	108.0	4.25	69.6	2.74	59.2	2.33	60.5	2.38
LL10K41BS*	1 1/4	-	-	1 1/4-11	4	108.0	4.25	69.6	2.74	59.2	2.33	60.5	2.38
LL12K41	1 1/2	40	1 1/2-11 1/2	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
LL12K41BS	1 1/2	40	-	1 1/2-11	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
LL12K46	1 1/2	40	1 1/2-11 1/2	-	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
LL12K46BS	1 1/2	40	-	1 1/2-11	4	120.9	4.76	69.6	2.74	67.8	2.67	60.5	2.38
LL20K51	2 1/2	50	2-11 1/2	-	4	139.4	5.49	110.0	4.33	75.4	2.97	95.3	3.75
LL20K51BS	2 1/2	50	-	2-11	4	139.4	5.49	110.0	4.33	75.4	2.97	95.3	3.75
LL20K56	2 1/2	50	2 1/2-8	-	4	154.4	6.08	110.0	4.33	90.4	3.56	95.3	3.75
LL20K56BS	2 1/2	50	-	2 1/2-11	4	154.4	6.08	110.0	4.33	90.4	3.56	95.3	3.75
LL20K61	2 1/2	50	3-8	-	4	176.3	6.94	117.3	4.62	112.3	4.42	101.6	4.00
LL20K61BS	2 1/2	50	-	3-11	4	176.3	6.94	117.3	4.62	112.3	4.42	101.6	4.00

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard.

To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part/Order No.		Socket Dust Plug Part/Order No.	
	Metal	Vinyl	Metal	Vinyl
1HK	XPDC1HK*	XPPDC1HK	SDC1HK*	XPSDC1HK
2HK	XPDC2HK*	XPPDC2HK	SDC2HK*	XPSDC2HK
3HK	XPDC3HK*	XPPDC3HK	SDC3HK*	XPSDC3HK
4HK	XPDC4HK**	XPPDC4HK(RD)***	SDC4HK**	XPSDC4HK(RD)***
6HK	XPDC6HK**	XPPDC6HK(RD)***	SDC6HK**	XPSDC6HK(RD)***
8HK	XPDC8HK**	XPPDC8HK(RD)***	SDC8HK**	XPSDC8HK(RD)***
12HK	XPDC12HK*		SDC12HK*	
20HK	XPDC20HK**		SDC20HK**	

*Brass **Aluminum ***Offered in red by adding RD to end of part number.



HK special configuration LL2HK-MS

Fluid transfer & Hydraulic application



Danfoss Hansen LL2HK-MS series is a special HK series made for specific application. This coupling is made of 303 stainless steel. The locking mechanism is push/pull.

This specific coupling has been made for testing ground equipment for aerospace application. It was created based on the HK series (stainless steel). It is a unique profile which is not interchangeable with the 2HK series.

Product Features

- Stainless steel construction
- Size 1/4"
- Proprietary profile

Physical characteristics

Working Pressure		Rated Flow		Air Inclusion	Fluid Loss
(bar)	(psi)	(lpm)	(gpm)	cc. max.	cc. max.
255	3,700	11.36	3	1.2	0.9

Dimensions

Body Size	Nominal Flow Diameter	Socket Part/ Order number	Plug Part/ Order number	Endconnection (female)	Socket dimensions (Fig. 1)									
					A		B		C		D		Hex	
(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
1/4	5.9	LL2H8MS	LL2K6/MS1	3/4 - 16 UNF	49.9	1.97	28.9	1.14	44.7	1.76	20.6	0.81	12.7	0.5

Application

- Hydraulic application
- Aerospace industry
- Specific application

Dust Caps

Coupling Series	Plug Dust Cap Part/Order No.	
	Metal	Vinyl
2HK	XPDC2HK*	XPDC2HK

*Brass



Metal Dust Cap



Vinyl Dust Cap

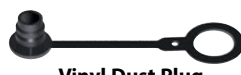
Dust Plugs

Coupling Series	Socket Dust Plug Part/Order No.	
	Metal	Vinyl
2HK	SDC2HK*	XPDC2HK

*Brass



Metal Dust Plug



Vinyl Dust Plug

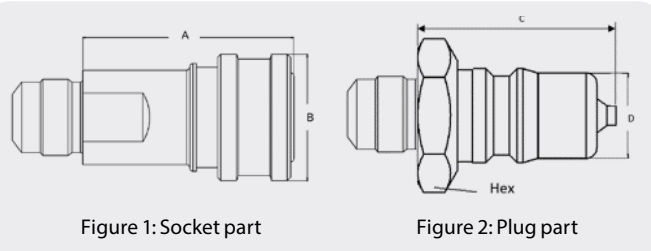
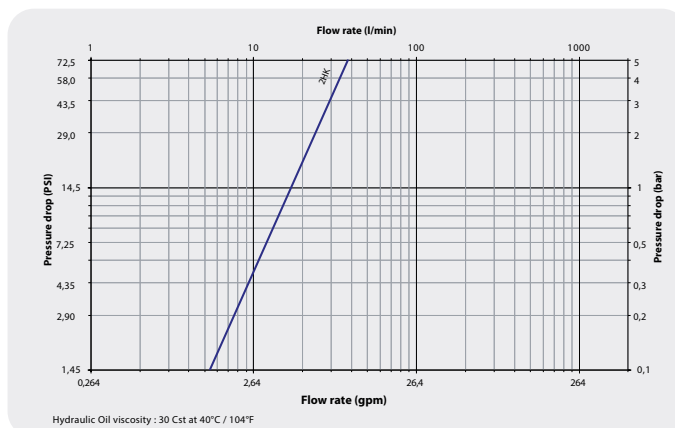


Figure 1: Socket part

Figure 2: Plug part

Flow Data



HKFR Series ISO 7241-1 BOP

Fluid transfer & Hydraulic application



Danfoss Hansen HKFR Series is a quick disconnect hydraulic coupling for hazardous Blow Out Preventer (BOP) service in the Oil and Gas Industry.

The HKFR Series meets or exceeds the ISO 7241-1 B standard.

Global region

Product Features

- BOP designation and red color is marked on the Socket/Female and Plug/Male halves
- Sleeve lock is standard
- Lloyd's Register Certification
- Meets or exceeds ISO 7241-1 Series B standard
- Utilizes HK Series dust caps and dust plugs
- Standard body material: 316 stainless steel, zinc trivalent plated steel
- Standard seal material: Nitrile (NBR)

Physical characteristics

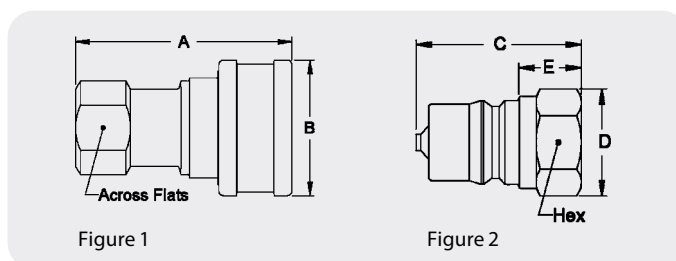
Series	Body Size	Max. Operating Pressure Connected		Min. Burst Pressure		Rated Flow		Fluid Loss
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	cc. max.
4HKFR	1/2	482	7,000	1,931	28,000	28	7.5	3.5
6HKFR	3/4	344	5,000	1,251	18,150	66	17.5	9.3
8HKFR	1	344	5,000	1,379	20,000	95	25.0	16.9
ML8HKFR	1	344	5,000	1,379	20,000	95	25.0	16.9

Applications & Markets

- Oil and gas

Lloyd's Register Certification

All of the above items carry a Lloyd's Registry Certificate for fire conditions stated in API 16D and EUB Directive 36. These parts meet the requirements that state couplings shall be capable of maintaining pressure when exposed to a 700°C (1,300°F) temperature for a five-minute period. Testing for this certification was conducted at the following pressures in the connected condition:



4HFR26/4KFR26:	3,000 PSI/206 BAR
6HFR31/6KFR31:	3,000 PSI/206 BAR
8HFR36/8KFR36:	4,000 PSI/275 BAR
ML8HFR36/ML8KFR36:	4,000 PSI/275 BAR

Female End Connections

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Across Flats	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
4HFR26	Socket/Female	1/2	1/2-14 NPTF	1	75.2	2.96	47.2	1.86	28.7	1.13
6HFR31	Socket/Female	3/4	3/4-14 NPTF	1	88.4	3.48	56.4	2.22	33.3	1.31
8HFR36	Socket/Female	1	1-1 1/2 NPTF	1	104.9	4.13	66.3	2.61	44.5	1.75
ML8HFR36*	Socket/Female	1	1-1 1/2 NPTF	1	104.9	4.13	66.3	2.61	44.5	1.75

*Stainless Steel

Plugs/Males

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions C		D		E		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
4KFR26	Plug/Male	1/2	1/2-14 NPTF	2	51.6	2.03	33.0	1.3	19.3	0.76	28.7	1.13
6KFR31	Plug/Male	3/4	3/4-14 NPTF	2	59.9	2.36	38.6	1.52	18.0	0.71	33.3	1.31
8KFR36	Plug/Male	1	1-1 1/2 NPTF	2	72.4	2.85	47.8	1.88	24.6	0.97	41.4	1.63
ML8KFR36*	Plug/Male	1	1-1 1/2 NPTF	2	72.4	2.85	47.8	1.88	24.6	0.97	41.4	1.63

*Stainless Steel

2HKIG/2HKIL Series

Fluid transfer & Hydraulic application



Danfoss Hansen 2HKIG/2HKIL Series stainless steel couplings can be used with various liquids and gases. They are functionally identical, but do not interchange. They can be used where it is necessary to avoid crossing lines.

Global region

Product Features

- Ball lock
- Proprietary interchange with all stainless steel construction
- Female/Socket halves available with 90° connections
- Standard body material: Stainless steel
- Standard seal material: Nitrile (NBR)

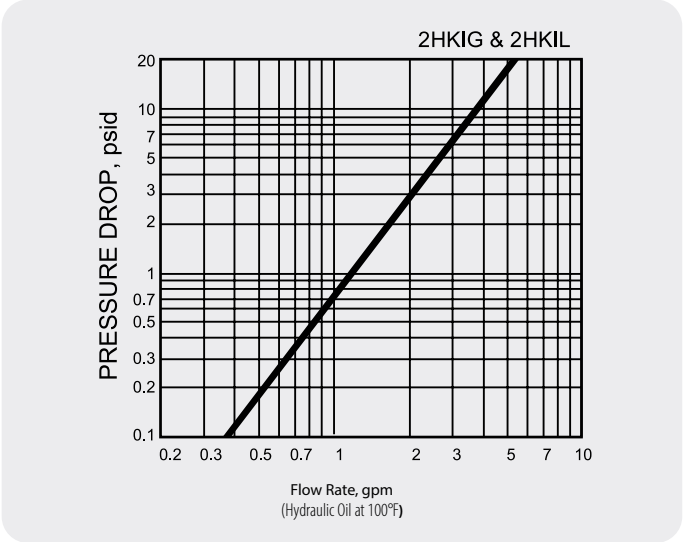
Physical characteristics

Body Size	Max. Operating Pressure Connected		Min. Burst Pressure		Rated Flow		Air Inclusion	Fluid Loss
	(in)	(bar) (psi)	(bar)	(psi)	(lpm)	(gpm)	cc. max.	cc. max.
1/4		103 1,500	412	6,000	8.3	2.2	2.2	1

Applications & Markets

- Chemical
- Food and Beverage
- Military
- Aerospacet

Flow Data



2HKIG Series

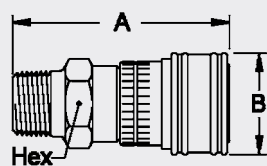


Figure 1

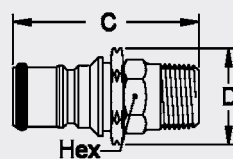


Figure 2

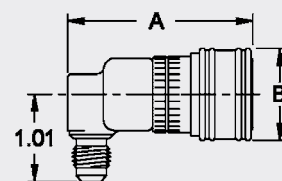


Figure 3

Male End Connections

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2HIG10	Socket/Female	1/4	1/8-27 NPTF	1	55.4	2.18	26.9	1.06	20.6	0.81
2HIG15	Socket/Female	1/4	1/4-18 NPTF	1	58.7	2.31	26.9	1.06	20.6	0.81
2HIG20	Socket/Female	1/4	3/8-18 NPTF	1	58.7	2.31	26.9	1.06	20.6	0.81
2HIG720	Socket/Female	1/4	7/16-20 NPTF	1	57.7	2.27	26.9	1.06	20.6	0.81
2HIGLLRA720	Socket/Female	1/4	7/16-20 NPTF	3	53.1	2.09	26.9	1.06	-	-

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions C		D		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2KIGF15	Plug/Male	1/4	1/4-18 NPTF	2	50.3	1.98	25.7	1.01	17.5	0.69
2KIGF20	Plug/Male	1/4	3/8-18 NPTF	2	50.3	1.98	25.7	1.01	17.5	0.69

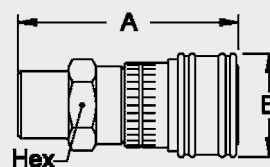


Figure 1

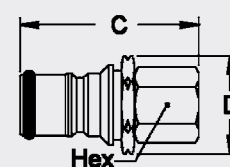


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2HIG11	Socket/Female	1/4	1/8-27 NPTF	1	55.4	2.18	26.9	1.06	20.6	0.81
2HIG16	Socket/Female	1/4	1/4-18 NPTF	1	57.4	2.26	26.9	1.06	20.6	0.81

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions C		D		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2KIGF16	Plug/Male	1/4	1/4 -18 NPTF	2	46.7	1.84	25.7	1.01	17.5	0.69
2KIGF720	Plug/Male	1/4	7/16 -20 UNF	2	40.9	1.61	25.7	1.01	17.5	0.69
2KIGF	Plug/Male	1/4	5/8-18 UNF	2	29.7	1.17	25.7	1.01	17.3	0.68

2HKIG Series

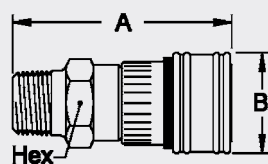


Figure 1

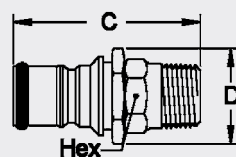


Figure 2

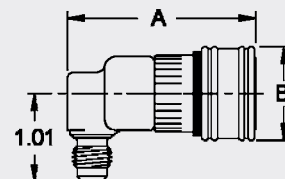


Figure 3

Male End Connections

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2HIL10	Socket/Female	1/4	1/8-27 NPTF	1	55.4	2.18	26.9	1.06	20.6	0.81
2HIL15	Socket/Female	1/4	1/4-18 NPTF	1	58.7	2.31	26.9	1.06	20.6	0.81
2HIL20	Socket/Female	1/4	3/8-18 NPTF	1	58.7	2.31	26.9	1.06	20.6	0.81
2HIL720	Socket/Female	1/4	7/16-20 NPTF	1	57.7	2.27	26.9	1.06	20.6	0.81
2HILLRA720	Socket/Female	1/4	7/16-20 NPTF	3	53.1	2.09	26.9	1.06	—	—

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions C		D		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2KILF15	Plug/Male	1/4	1/4-18 NPTF	2	50.3	1.98	25.7	1.01	17.5	0.69
2KILF20	Plug/Male	1/4	3/8-18 NPTF	2	50.3	1.98	25.7	1.01	17.5	0.69

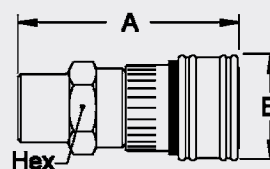


Figure 1

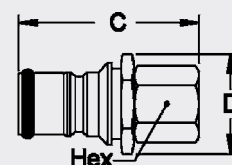


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions A		B		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2HIL11	Socket/Female	1/4	1/8-27 NPTF	1	55.4	2.18	26.9	1.06	20.6	0.81
2HIL16	Socket/Female	1/4	1/4-18 NPTF	1	57.4	2.26	26.9	1.06	20.6	0.81

Part/Order Number	Coupling Type	Body Size	Thread	Fig.	Dimensions C		D		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2KILF16	Plug/Male	1/4	1/4 -18 NPTF	2	46.7	1.84	25.7	1.01	17.5	0.69
2KILF720	Plug/Male	1/4	7/16 -20 UNF	2	40.9	1.61	25.7	1.01	17.5	0.69
2KILF	Plug/Male	1/4	5/8-18 UNF	2	29.7	1.17	25.7	1.01	17.3	0.68

FD48 Series Parker Bruning SM-250 Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen FD48 Series coupling is poppet style quick disconnect coupling designed to interchange with Parker Bruning SM-250 couplings where excellent high and low pressure sealing is required. The FD48 operates with pressures up to 3,000 psi.

AMER region

Product Features

- 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 corrosion resistance
- Standard seal material: Buna-N
- Standard body material: High resistance carbon steel with zinc trivalent plating

Physical characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only		Rated Flow	Air Inclusion	Fluid Loss
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(lpm)	(gpm)	cc. max.	cc. max.
1/4	210	3,000	840	12,000	28	11	3	0.50	1.10

Dimensions (Female NPT, Valved)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex 	
Buna-N							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD48-1002-04-04	Plug/Male	1/4	1/4	1/4-18	Female NPT	1	36.8	1.45	-	-	19.0	0.75
FD48-1001-04-04	Socket/Female	1/4	1/4	1/4-18	Female NPT	2	51.1	2.01	26.9	1.06	20.6	0.81

Applications & Markets

- Hydraulic and fluid transfer
- Agricultural equipment

Dust Cap/Plug

Part/Order Number	Body Size
Buna-N	
FD48-1042-04*	1/4

*Fits both plug/male and socket/female halves.



Dust Cap/Plug

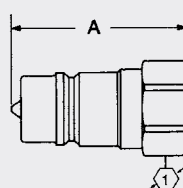


Figure 1

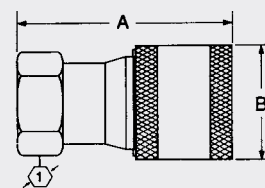
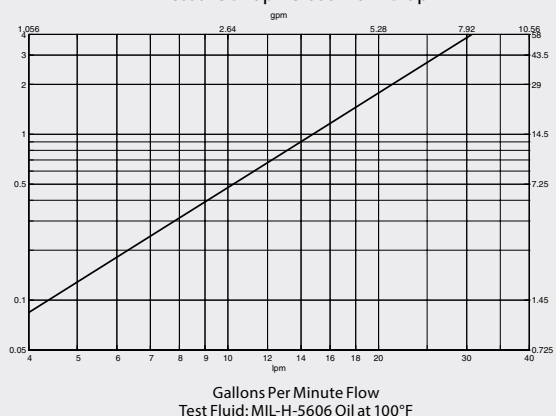


Figure 2

Flow Data

Pressure Drop Versus Flow Graph



ST Series

Fluid transfer & Hydraulic application



Danfoss Hansen ST Series is a straight-through coupling that is designed for use where minimum pressure drop is required and valving is not needed. These couplings are suited for various and versatile fluid transfer type systems.

Global region

Product Features

- Ball-latching mechanism
- Smooth bore permits free flow of liquid or gas
- Available in NPTF, BSPP and Hose stem end connections
- Standard seal material: Nitrile (NBR)
- Standard body material: Brass, 303 stainless steel

Physical characteristics

Series	Body Size (in)	Max. Operating Pressure Brass Socket & Plug**		Max. Operating Pressure Brass Socket & Steel Plug**		Max. Operating Pressure Stainless Socket & Plug**		Max. Operating Pressure for Hazardous liquids and gases Group 1		Min. Burst Pressure*		Rated Flow	
		(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
1ST	1/8	193	2,800	234	3,400	290	4,200	***	***	772	11,200	10	2.7
2ST	1/4	359	5,200	379	5,500	517	7,500	***	***	1,436	20,800	21	5.6
3ST	3/8	193	2,800	290	4,200	434	6,300	***	***	772	11,200	57	15.0
4ST	1/2	152	2,200	241	3,500	248	3,600	***	***	608	8,800	83	22.0
6ST	3/4	117	1,700	145	2,100	207	3,000	***	***	468	6,800	250	66.0
8ST	1	90	1,300	138	2,000	138	2,000	***	***	360	5,200	530	140.0
10ST	1 1/4	117	1,700	186	2,700	152	2,200	***	***	468	6,800	697	184.0
12ST	1 1/2	97	1,400	152	2,200	172	2,500	33	480	388	5,600	1,124	297.0
16ST	2	97	1,400	152	2,200	103	1,500	27	390	388	5,600	1,855	490.0
20ST	2 1/2	62	900	103	1,500	-	-	20	290	248	3,600	3,131	827.0

* For Brass socket and plug. Other materials have 4 to 1 safety factor.

** Operating pressure for Non Hazardous liquids and gases from Group 2.

*** Operating pressure is same as Non Hazardous liquids and gases from Group 2 for this size.

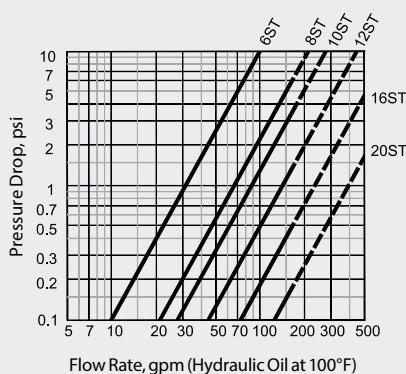
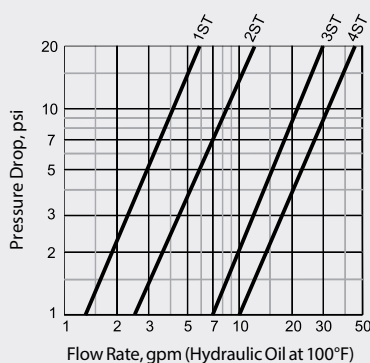
Applications & Markets

- Fluid Transfer
- Chemical
- Food and Beverage
- Injection Molding
- Marine
- Medical
- Pressure Washing
- Steam Cleaning

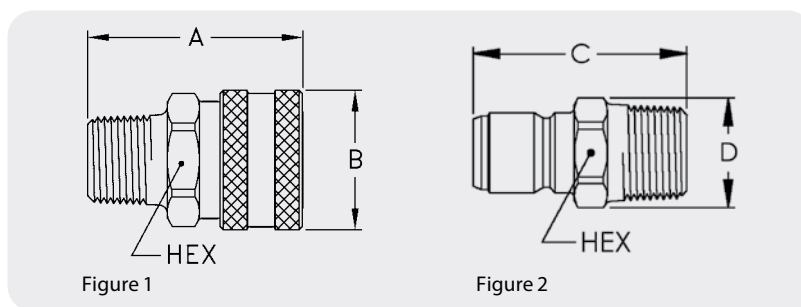
European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases.

Flow Data



ST Series



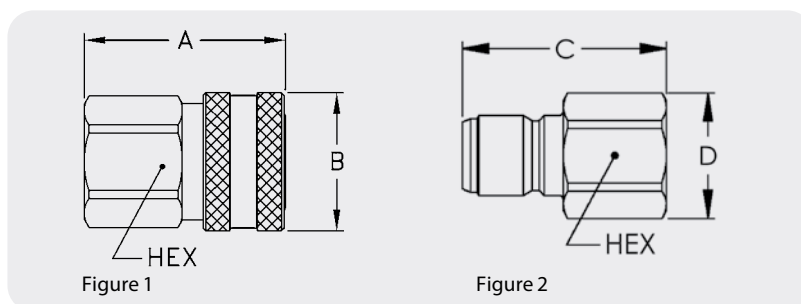
Male End Connections

Part/Order Number Brass	Steel	Stainless	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
1S10	-	LL1S10	Socket/Female	1/8	1/8	1/8-27	NPTF	1	26.9	1.06	18.3	0.72	14.2	0.56
1S10BS	-	-	Socket/Female	1/8	1/8	1/8-28	BSPP	1	25.4	1.00	18.3	0.72	14.2	0.56
2S15	-	LL2S15	Socket/Female	1/4	1/4	1/4-18	NPTF	1	43.7	1.72	24.6	0.97	20.6	0.81
3S20	-	LL3S20	Socket/Female	3/8	3/8	3/8-18	NPTF	1	44.5	1.75	29.5	1.16	25.4	1.00
3S20BS	-	LL3S20BS	Socket/Female	3/8	3/8	3/8-19	BSPP	1	43.4	1.71	29.5	1.16	25.4	1.00
4S25	-	LL4S25	Socket/Female	1/2	1/2	1/2-14	NPTF	1	51.6	2.03	34.0	1.34	28.7	1.13
4S25BS	-	LL4S25BS	Socket/Female	1/2	1/2	1/2-14	BSPP	1	45.7	1.80	34.0	1.34	28.7	1.13
6S30	-	LL6S30	Socket/Female	3/4	3/4	3/4-14	NPTF	1	56.4	2.22	43.7	1.72	36.6	1.44
6S30BS	-	-	Socket/Female	3/4	3/4	3/4-14	BSPP	1	51.6	2.03	43.7	1.72	36.6	1.44
8S35	-	-	Socket/Female	1	1	1-11 1/2	NPTF	1	64.3	2.53	51.6	2.03	44.5	1.75
8S35BS	-	-	Socket/Female	1	1	1-11	BSPP	3	60.2	2.37	51.6	2.03	44.5	1.75

Part/Order Number Brass	Steel	Stainless	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions C		D		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
B1T10	1T10E	LL1T10	Plug/Male	1/8	1/8	1/8-27	NPTF	2	26.9	1.06	13.0	0.51	11.2	0.44
B1T15	1T15	-	Plug/Male	8	1/4	1/4-18	NPTF	2	31.0	1.22	16.5	0.65	14.2	0.56
B2T15	2T15	LL2T15	Plug/Male	1/4	1/4	1/4-18	NPTF	2	39.6	1.56	16.5	0.65	14.2	0.56
-	-	HL2T15**	Plug/Male	1/4	1/4	1/4-18	NPTF	2	39.6	1.56	16.5	0.65	14.2	0.56
B2T15BS	-	LL2T15BS	Plug/Male	1/4	1/4	1/4-19	BSPP	2	37.1	1.46	22.1	0.87	19.1	0.75
B3T20	3T20	LL3T20	Plug/Male	3/8	3/8	3/8-18	NPTF	2	42.9	1.69	20.1	0.79	17.5	0.69
-	-	HL3T20**	Plug/Male	3/8	3/8	3/8-18	NPTF	2	42.9	1.69	20.1	0.79	17.5	0.69
B3T20BS	-	LL3T20BS	Plug/Male	3/8	3/8	3/8-19	BSPP	2	38.1	1.50	25.7	1.01	22.4	0.88
B4T25	4T25	LL4T25	Plug/Male	1/2	1/2	1/2-14	NPTF	2	51.1	2.01	25.7	1.01	22.4	0.88
B4T25BS	-	LL4T25BS	Plug/Male	1/2	1/2	1/2-14	BSPP	2	46.2	1.82	29.2	1.15	25.4	1.00
B6T30	6T30	LL6T30	Plug/Male	3/4	3/4	1/2-14	NPTF	2	55.9	2.2	31.2	1.23	26.9	1.06
B6T30BS	-	LL6T30BS	Plug/Male	3/4	3/4	1/2-14	BSPP	2	52.8	2.08	36.6	1.44	31.8	1.25
B8T35	8T35	LL8T35	Plug/Male	1	1	1-11 1/2	NPTF	2	63.2	2.49	40.4	1.59	35.1	1.38
B8T35BS	-	-	Plug/Male	1	1	1-11	BSPP	2	59.9	2.36	51.3	2.02	44.5	1.75
B10T40	10T40	LL10T40	Plug/Male	1 1/4	1 1/4	1 1/4-11 1/2	NPTF	2	69.1	2.72	51.3	2.02	44.5	1.75
B10T40BS	-	-	Plug/Male	1 1/4	1 1/4	1 1/4-11	BSPP	2	64.8	2.55	58.7	2.31	50.8	2.00
B12T45	12T45	-	Plug/Male	1 1/2	1 1/2	1 1/2-11 1/2	NPTF	2	84.1	3.31	66.0	2.6	57.2	2.25
B12T45BS	-	-	Plug/Male	1 1/2	1 1/2	1 1/2-11	BSPP	2	77.7	3.06	66.0	2.6	57.2	2.25
B16T50	16T50	LL16T50	Plug/Male	2	2	2-11 1/2	NPTF	2	88.9	3.5	80.8	3.18	69.9	2.75
B20T55	-	-	Plug/Male	2 1/2	2 1/2	2 1/2-8	NPTF	2	107.7	4.24	95.3	3.75	82.6	3.25

**High impulse heat treated 416 stainless steel.

ST Series



Female End Connections

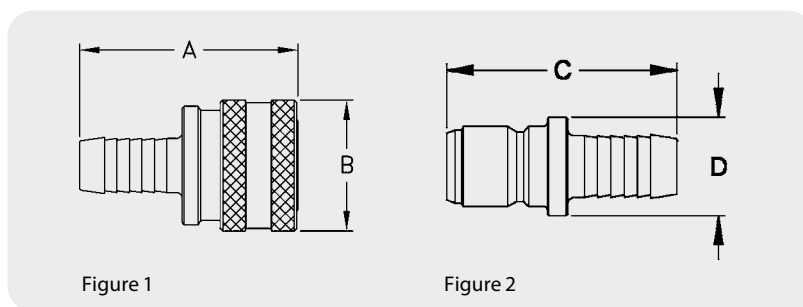
Part/Order Number Brass	Steel	Stainless	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
1S11	-	LL1S11	Socket/Female	1/8	1/8	1/8-27	NPTF	1	26.9	1.06	18.3	0.72	14.2	0.56
1S11BS	-	LL1S11BS	Socket/Female	1/8	1/8	1/8-28	BSPP	1	26.2	1.03	18.3	0.72	14.2	0.56
2S16	-	LL2S16	Socket/Female	1/4	1/4	1/4-18	NPTF	1	38.1	1.50	24.6	0.97	20.6	0.81
2S16BS	-	LL2S16BS	Socket/Female	1/4	1/4	1/4-19	BSPP	1	38.1	1.50	24.6	0.97	20.6	0.81
3S21	-	LL3S21	Socket/Female	3/8	3/8	3/8-18	NPTF	1	40.4	1.59	29.5	1.16	25.4	1.00
3S21BS	-	LL3S21BS	Socket/Female	3/8	3/8	3/8-19	BSPP	1	40.4	1.59	29.5	1.16	25.4	1.00
4S26	-	LL4S26	Socket/Female	1/2	1/2	1/2-14	NPTF	1	48.5	1.91	34.0	1.34	28.7	1.13
4S26BS	-	LL4S26BS	Socket/Female	1/2	1/2	1/2-14	BSPP	1	48.5	1.91	34.0	1.34	28.7	1.13
6S31	-	LL6S31	Socket/Female	3/4	3/4	3/4-14	NPTF	1	52.3	2.06	43.7	1.72	36.6	1.44
6S31BS	-	LL6S31BS	Socket/Female	3/4	3/4	3/4-14	BSPP	1	52.3	2.06	43.7	1.72	36.6	1.44
8S36	-	LL8S36	Socket/Female	1	1	1-11 1/2	NPTF	1	59.2	2.33	51.6	2.03	44.5	1.75
8S36BS	-	LL8S36BS	Socket/Female	1	1	1-11	BSPP	1	59.2	2.33	51.6	2.03	44.5	1.75
10S41*	-	LL10S41	Socket/Female	1 1/4	1 1/4	1 1/4-11 1/2	NPTF	1	62.0	2.44	63.5	2.50	50.8	2.00
10S41BS*	-	-	Socket/Female	1 1/4	1 1/4	1 1/4-11	BSPP	1	63.8	2.51	63.5	2.50	50.8	2.00
12S46*	-	LL12S46	Socket/Female	1 1/2	1 1/2	1 1/2-11 1/2	NPTF	1	73.2	2.88	79.5	3.13	66.0	2.60
12S46BS*	-	LL12S46BS	Socket/Female	1 1/2	1 1/2	1 1/2-11	BSPP	1	73.2	2.88	79.5	3.13	66.8	2.63
16S51*	-	LL16S51	Socket/Female	2	2	2-11 1/2	NPTF	1	78.5	3.09	95.3	3.75	76.2	3.00
16S51BS*	-	LL16S51BS	Socket/Female	2	2	2-11	BSPP	1	83.8	3.30	95.3	3.75	76.2	3.00
20S56*	-	-	Socket/Female	2 1/2	2 1/2	2 1/2-8	NPTF	1	87.4	3.44	114.3	4.50	88.9	3.50

Part/Order Number Brass	Steel	Stainless	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions C		D		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
B1T11	1T11	LL1T11	Plug/Male	1/8	1/8	1/8-27	NPTF	2	24.6	0.97	14.7	0.58	12.7	0.50
B1T11BS	-	LL1T11BS	Plug/Male	1/8	1/8	1/8-28	BSPP	2	24.6	0.97	16.5	0.65	14.2	0.56
B2T16	2T16	LL2T16	Plug/Male	1/4	1/4	1/4-18	NPTF	2	36.8	1.45	20.1	0.79	17.5	0.69
-	-	HL2T16**	Plug/Male	1/4	1/4	1/4-18	NPTF	2	36.8	1.45	20.1	0.79	17.5	0.69
B2T16BS	-	LL2T16BS	Plug/Male	1/4	1/4	1/4-19	BSPP	2	36.8	1.45	22.1	0.87	19.1	0.75
B3T21	3T21	LL3T21	Plug/Male	3/8	3/8	3/8-18	NPTF	2	41.4	1.63	23.9	0.94	20.6	0.81
-	-	HL3T21**	Plug/Male	3/8	3/8	3/8-18	NPTF	2	41.4	1.63	23.9	0.94	20.6	0.81
B3T21BS	-	LL3T21BS	Plug/Male	3/8	3/8	3/8-19	BSPP	2	41.4	1.63	25.7	1.01	22.4	0.88
B4T26	4T26	LL4T26	Plug/Male	1/2	1/2	1/2-14	NPTF	2	48.8	1.92	29.2	1.15	25.4	1.00
B4T26BS	-	LL4T26BS	Plug/Male	1/2	1/2	1/2-14	BSPP	2	48.8	1.92	31.2	1.23	26.9	1.06
B6T31	6T31	LL6T31	Plug/Male	3/4	3/4	3/4-14	NPTF	2	51.1	2.01	34.8	1.37	30.2	1.19
B6T31BS	-	LL6T31BS	Plug/Male	3/4	3/4	3/4-14	BSPP	2	51.1	2.01	38.4	1.51	33.3	1.31
B8T36	8T36	LL8T36	Plug/Male	1	1	1-11 1/2	NPTF	2	56.1	2.21	45.7	1.80	39.6	1.56
B8T36BS	-	LL8T36BS	Plug/Male	1	1	1-11	BSPP	2	56.6	2.23	45.7	1.80	39.6	1.56
B10T41	10T41	LL10T41	Plug/Male	1 1/4	1 1/4	1 1/4-11 1/2	NPTF	2	59.4	2.34	58.7	2.31	50.8	2.00
B10T41BS	-	LL10T41BS	Plug/Male	1 1/4	1 1/4	1 1/4-11	BSPP	2	64.3	2.53	58.7	2.31	50.8	2.00
B12T46	12T46	LL12T46	Plug/Male	1 1/2	1 1/2	1 1/2-11 1/2	NPTF	2	73.2	2.88	66.0	2.60	57.2	2.25
B12T46BS	-	LL12T46BS	Plug/Male	1 1/2	1 1/2	1 1/2-11	BSPP	2	73.2	2.88	66.0	2.60	57.2	2.25
B16T51	16T51	-	Plug/Male	2	2	2-11 1/2	NPTF	2	77.0	3.03	80.8	3.18	69.9	2.75
B16T51BS	-	-	Plug/Male	2	2	2-11	BSPP	2	82.6	3.25	80.8	3.18	69.9	2.75
B20T56	20T56	-	Plug/Male	2 1/2	2 1/2	2 1/2-8	NPTF	2	85.6	3.37	95.3	3.75	82.6	3.25

*With Steel Sleeve

**High impulse heat treated 416 stainless steel

ST Series



Hose Stem End Connections

Part/Order Number	Brass	Stainless	Steel	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
								A		B	
								(mm)	(in)	(mm)	(in)
1S12	LL1S12	-	-	Socket/Female	1/8	3/16	1	35.8	1.41	18.3	0.72
1S17	LL1S17	-	-	Socket/Female	1/8	1/4	1	35.8	1.41	18.3	0.72
2S17	LL2S17	-	-	Socket/Female	1/4	1/4	1	53.3	2.10	24.6	0.97
3S22	LL3S22	-	-	Socket/Female	3/8	3/8	1	53.1	2.09	29.5	1.16
4S27	LL4S27	-	-	Socket/Female	1/2	1/2	1	55.6	2.19	34.0	1.34
6S32	LL6S32	-	-	Socket/Female	3/4	3/4	1	81.0	3.19	43.7	1.72
8S37	LL8S37	-	-	Socket/Female	1	1	1	84.3	3.32	51.6	2.03

Part/Order Number	Brass	Stainless	Steel	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
								C		D	
								(mm)	(in)	(mm)	(in)
B1T12	LL1T12	—	—	Plug/Male	1/8	3/16	2	32.5	1.28	11.2	0.44
B1T17	LL1T17	—	—	Plug/Male	1/8	1/4	2	32.5	1.28	11.2	0.44
B2T17	LL2T17	—	—	Plug/Male	1/4	1/4	2	49.0	1.93	14.2	0.56
B3T22	LL3T22	—	—	Plug/Male	3/8	3/8	2	53.1	2.09	17.5	0.69
B4T27	LL4T27	—	—	Plug/Male	1/2	1/2	2	55.1	2.17	22.4	0.88
B6T32	LL6T32	—	—	Plug/Male	3/4	3/4	2	80.5	3.17	30.2	1.19
B8T37	—	—	8T37	Plug/Male	1	1	2	83.3	3.28	38.1	1.5

Dust Caps and Dust Plugs

Series	Dust Cap	Dust Plug
2ST	-	XPSDC1HK
3ST	-	XPSDC2HK
6ST	XPPDC4HK	XPSDC4HK
8ST	XPPDC6HK	-
10ST	XPPDC8HK	-



L7000 Series (Steel) Full Flow

Fluid transfer & Hydraulic application



Danfoss Hansen L7000 Series steel quick disconnect coupling is a full-flow coupling with a rugged construction. Similar to the Danfoss H5000 Series, the heat treatment and hardened materials give the coupling excellent resistance to mechanical and hydraulic demands. It is suited for applications where maximum flow capacity is a requirement and valving is not needed.

Product Features

- Proprietary profile
- Full flow pull-to-connect couplings
- Ball-locking
- Excellent flow performance
- Standard body material: Zinc trivalent plated steel
- Optional dust caps and plugs (made of anodized aluminum)
- Standard seal material: NBR, FKM, EPDM

Physical characteristics

Body Size	Nominal Flow Diameter	Max. Operating Pressure (connected)*			
		Non hazardous liquids & gases in Group 2		Hazardous liquids & gases in Group 1	
(in)	(mm)	(bar)	(psi)	(bar)	(psi)
⅜	8	1,000	14,500	1,000	14,500
¼	10	700	10,150	700	10,150
⅜	12	600	8,700	600	8,700
½	15	500	7,250	500	7,250
¾	20	400	5,800	400	5,800
1	25	300	4,350	300	4,350
1¼	33	200	2,900	30	435
1½	40	150	2,175	24	345
2	50	100	1,450	19	275

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases.

*Group 1 = Hazardous media / Group 2 = Other media

Flow Data

The nominal flow diameter of the coupling has no impact on pressure drop, as it is wider than the circuit diameter.

Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

*For reference only, based on Danfoss recommended temperatures.

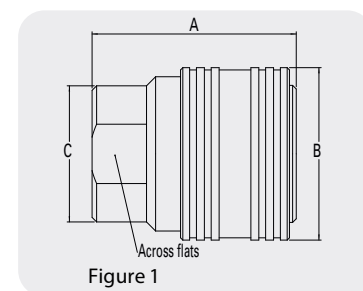
** In accordance with NF L 17-241 or NAS 1613 rev. 5, depending on size.

Contact Danfoss technical support for further information on fluid compatibility.

Applications & Markets

- Fluid Transfer Lines
- Refrigerant Circuits
- Applications where maximum flow capacity is required

L7000 Series (Steel) Full Flow



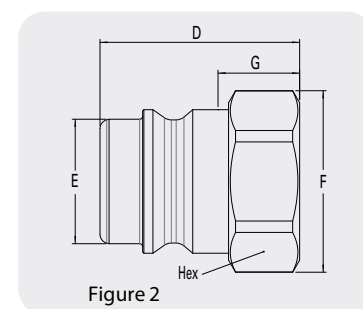
Sockets (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Fig.	Dimensions								Weight	
NBR*	FKM	EPDM					A	B	C	Across flats				lbs	grams	
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
LA0700100	LA07001V0	LA07001E0	⅜	8	⅝-28	1	41.5	1.63	24	0.94	21	0.83	16	0.63	0.19	86
LA0701100	LA07011V0	LA07011E0	¼	10	¼-19	1	36.0	1.42	28	1.10	21	0.83	19	0.75	0.19	87
LA0702100	LA07021V0	LA07021E0	⅜	12	⅜-19	1	38.0	1.50	34	1.34	26	1.02	23	0.90	0.28	129
LA0703100	LA07031V0	LA07031E0	½	15	½-14	1	45.0	1.77	38	1.50	30	1.18	27	1.06	0.39	177
LA0704100	LA07041V0	LA07041E0	¾	20	¾-14	1	56.0	2.20	48	1.89	38	1.50	35	1.38	0.78	355
LA0705100	LA07051V0	LA07051E0	1	25	1-11	1	61.0	2.40	52	2.05	45	1.77	41	1.61	0.97	440
-	LA07061V0	LA07061E0	1¼	33	1¼-11	1	67.0	2.64	75	2.95	60	2.36	55	2.16	2.15	975
-	LA07071V0	LA07071E0	1½	40	1½-11	1	86.0	3.38	85	3.35	72	2.83	65	2.56	3.85	1,745
-	LA07091V0	LA07091E0	2	50	2-11	1	88.0	3.46	97	3.82	83	3.27	75	2.95	4.11	1,865

*Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.



Plugs (Male)

Part/Order Number	Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions										Weight		
				Fig.	D	E	F	G	Hex	(in)	lbs	grams				
	(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)				
LA0700200	⅜	8	⅜-28	2	26.0	1.02	11.0	0.43	18.4	0.72	10.5	0.41	16	0.63	0.04	19
LA0701200	¼	10	¼-19	2	25.5	1.00	14.2	0.56	21.0	0.82	10.5	0.41	19	0.75	0.06	26
LA0702200	⅜	12	⅜-19	2	28.0	1.10	19.0	0.75	26.0	1.02	10.7	0.42	23	0.90	0.10	45
LA0703200	½	15	½-14	2	33.0	1.30	20.6	0.81	30.0	1.18	13.0	0.51	27	1.06	0.12	54
LA0704200	¾	20	¾-14	2	40.0	1.57	27.9	1.10	38.0	1.50	14.0	0.55	35	1.38	0.26	117
LA0705200	1	25	1-11	2	44.0	1.73	32.4	1.27	45.0	1.77	18.5	0.73	41	1.61	0.34	155
LA0706200	1¼	33	1¼-11	2	54.0	2.12	44.0	1.73	60.0	2.36	21.0	0.83	55	2.16	0.94	424
LA0707200	1½	40	1½-11	2	59.0	2.32	53.5	2.10	71.9	2.83	22.0	0.87	65	2.56	1.45	656
LA0709200	2	50	2-11	2	68.0	2.68	62.8	2.47	83.0	3.27	27.0	1.06	75	2.95	1.85	839

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.

L7000 Series (Steel) Full Flow

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part/Order Number Anodized Aluminum	Plug Dust Cap Part/Order Number Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body size		Seal & Back-up Ring Kit*				
(in)	Buna-N seals & PTFE back-up	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00	50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00	50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00	50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00	50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00	50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	LG 07061 00	15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	LG 07071 00	15 O-rings + 15 Backup rings	-	-	-	-
2	LG 07091 00	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits.

L7000 Series (Brass) Full Flow

Fluid transfer & Hydraulic application



Danfoss' L7000 Series brass quick disconnect coupling is a full-flow coupling suited for applications where maximum flow capacity is required and valving is not needed. Mainly used in fluid transfer applications where stainless steel is not a requirement, it can handle a wide range of media and offers good corrosion resistance.

EMEA region

Product Features

- Proprietary profile
- Full flow pull-to-connect couplings
- Ball-locking
- Excellent flow performance
- Standard body material: Nickel-plated brass
- Optional dust caps and plugs (made of anodized aluminum)
- Standard seal material: NBR, FKM, EPDM

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure (connected)*			
		Liquids in Groups 1 and 2		Gases in Group 2	
		(bar)	(psi)	(bar)	(psi)
1/8	8	300	4,350	300	4,350
1/4	10	230	3,335	230	3,335
3/8	12	175	2,535	175	2,535
1/2	15	150	2,175	150	2,175
3/4	20	125	1,810	125	1,810
1	25	100	1,450	100	1,450
1 1/4	33	60	870	30	435
1 1/2	40	49	710	24	348
2	50	39	565	19	275

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (as per PED 2014/68/EU).

European Pressure Equipment Directive*

All couplings are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous).

* Group 1 = Hazardous media / Group 2 = Other media

Flow Data

The nominal flow diameter of the coupling has no impact on pressure drop, as it is wider than the circuit diameter.

Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

*For reference only, based on Danfoss recommended temperatures.

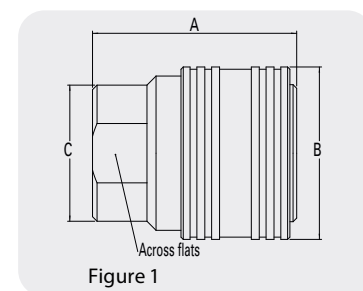
** In accordance with NF L 17-241 or NAS 1613 rev. 5, depending on size.

Contact Danfoss technical support for further information on fluid compatibility.

Applications & Markets

- Pressure Washing
- Steam-Cleaning Equipment
- Fluid Transfer Lines
- Refrigerant Circuits
- Applications where maximum flow capacity is required

L7000 Series (Brass) Full Flow



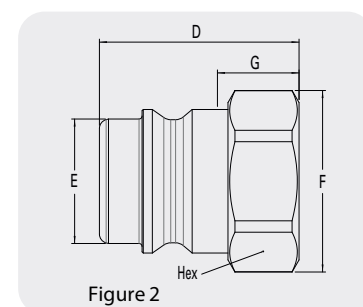
Sockets (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female) BSPP	Fig.	Dimensions							Weight		
Buna-N*	FKM	EPDM					A	B	C	Across flats		lbs	grams			
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
LL0700100	LL07001V0	LL07001E0	3/8	8	3/8-28	1	41.5	1.63	24	0.94	21	0.83	16	0.63	0.21	95
LL0701100	LL07011V0	LL07011E0	1/4	10	1/4-19	1	36.0	1.42	28	1.10	21	0.83	19	0.75	0.21	96
LL0702100	LL07021V0	LL07021E0	3/8	12	3/8-19	1	38.0	1.50	34	1.34	26	1.02	23	0.90	0.31	142
LL0703100	LL07031V0	LL07031E0	1/2	15	1/2-14	1	45.0	1.77	38	1.50	30	1.18	27	1.06	0.43	195
LL0704100	LL07041V0	LL07041E0	3/4	20	3/4-14	1	56.0	2.20	48	1.89	38	1.50	35	1.38	0.86	391
LL0705100	LL07051V0	LL07051E0	1	25	1-11	1	61.0	2.40	52	2.05	45	1.77	41	1.61	1.07	484
-	LL07061V0	LL07061E0	1 1/4	33	1 1/4-11	1	67.0	2.64	75	2.95	60	2.36	55	2.16	2.37	1,073
-	LL07071V0	LL07071E0	1 1/2	40	1 1/2-11	1	86.0	3.38	85	3.35	72	2.83	65	2.56	4.23	1,920
-	LL07091V0	LL07091E0	2	50	2-11	1	88.0	3.46	97	3.82	83	3.27	75	2.95	4.52	2,052

*Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.



Plugs (Male)

Part/Order Number	Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions										Weight		
				Fig.	D	E		F		G		Hex				
	(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	lbs	grams	
LL0700200	⅜	8	⅜-28	2	26.0	1.02	11.0	0.43	18.4	0.72	10.5	0.41	16	0.63	0.05	21
LL0701200	¼	10	¼-19	2	25.5	1.00	14.2	0.56	21.0	0.82	10.5	0.41	19	0.75	0.06	29
LL0702200	⅜	12	⅜-19	2	28.0	1.10	19.0	0.75	26.0	1.02	10.7	0.42	23	0.90	0.11	50
LL0703200	½	15	½-14	2	33.0	1.30	20.6	0.81	30.0	1.18	13.0	0.51	27	1.06	0.13	59
LL0704200	¾	20	¾-14	2	40.0	1.57	27.9	1.10	38.0	1.50	14.0	0.55	35	1.38	0.28	129
LL0705200	1	25	1-11	2	44.0	1.73	32.4	1.27	45.0	1.77	18.5	0.73	41	1.61	0.38	171
LL0706200	1¼	33	1¼-11	2	54.0	2.12	44.0	1.73	60.0	2.36	21.0	0.83	55	2.16	1.03	466
LL0707200	1½	40	1½-11	2	59.0	2.32	53.5	2.10	71.9	2.83	22.0	0.87	65	2.56	1.59	722
LL0709200	2	50	2-11	2	68.0	2.68	62.8	2.47	83.0	3.27	27.0	1.06	75	2.95	2.04	923

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.

L7000 Series (Brass) Full Flow

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part/Order Number Anodized Aluminum	Plug Dust Cap Part/Order Number Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body size		Seal & Back-up Ring Kit*				
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00	50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00	50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00	50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00	50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00	50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	LG 07061 00	15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	LG 07071 00	15 O-rings + 15 Backup rings	-	-	-	-
2	LG 07091 00	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits.

L7000 Series (Stainless Steel) Full Flow

Fluid transfer & Hydraulic application



Danfoss' L7000 Series stainless steel quick disconnect coupling is a full-flow coupling suited for applications where maximum flow capacity is required and valving is not needed. Mainly used in fluid transfer applications and offers excellent corrosion resistance.

Product Features

- Proprietary profile
- Full flow pull-to-connect couplings
- Ball-locking
- Excellent flow performance
- Standard body material: AISI 316L Stainless steel
- Optional dust caps and plugs (made of anodized aluminum)
- Standard seal material: FKM, EPDM

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure (connected)			
		Non hazardous liquids & gases Group 2		Non hazardous liquids & gases Group 1	
		(bar)	(psi)	(bar)	(psi)
1/8	8	300	4,350	300	4,350
1/4	10	230	3,335	230	3,335
3/8	12	175	3,535	175	3,535
1/2	15	150	2,175	150	2,175
3/4	20	125	1,810	125	1,810
1	25	100	1,450	100	1,450
1 1/4	33	100	1,450	100	1,450
1 1/2	40	75	1,085	38	550
2	50	40	580	28	405

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU.

They should not be used to convey unstable gases.

*Group 1 = Hazardous media / Group 2 = Other media

Flow Data

The nominal flow diameter of the coupling has no impact on pressure drop, as it is wider than the circuit diameter.

Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

*For reference only, based on Danfoss recommended temperatures.

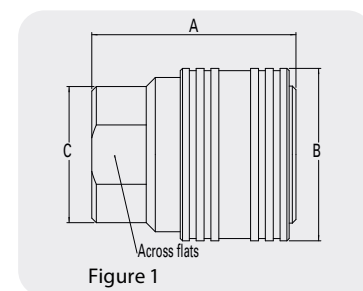
** In accordance with NF L 17-241 or NAS 1613 rev. 5, depending on size.

Contact Danfoss technical support for further information on fluid compatibility.

Applications & Markets

- Pressure Washing
- Steam-Cleaning Equipment
- Fluid Transfer Lines
- Refrigerant Circuits
- Applications where maximum flow capacity is required

L7000 Series (Stainless Steel) Full Flow

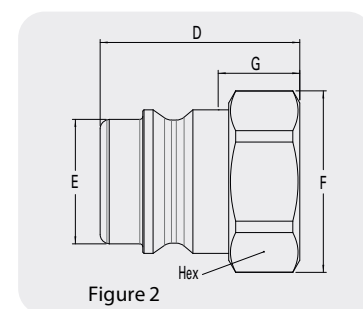


Sockets (Female)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions								Weight		
FKM	EPDM				Fig.	A		B		C		Across flats		lbs	grams
		(in)	(mm)		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)			
LZ07001V0	LZ07001E0	⅜	8	⅝-28	1	41.5	1.63	24	0.94	21	0.83	16	0.63	0.19	86
LZ07011V0	LZ07011E0	¼	10	¼-19	1	36.0	1.42	28	1.10	21	0.83	19	0.75	0.19	87
LZ07021V0	LZ07021E0	⅜	12	⅜-19	1	38.0	1.50	34	1.34	26	1.02	23	0.90	0.28	129
LZ07031V0	LZ07031E0	½	15	½-14	1	45.0	1.77	38	1.50	30	1.18	27	1.06	0.39	177
LZ07041V0	LZ07041E0	¾	20	¾-14	1	56.0	2.20	48	1.89	38	1.50	35	1.38	0.78	355
LZ07051V0	LZ07051E0	1	25	1-11	1	61.0	2.40	52	2.05	45	1.77	41	1.61	0.97	440
LZ07061V0	LZ07061E0	1¼	33	1¼-11	1	67.0	2.64	75	2.95	60	2.36	55	2.16	2.15	975
LZ07071V0	LZ07071E0	1½	40	1½-11	1	86.0	3.38	85	3.35	72	2.83	65	2.56	3.85	1,745
LZ07091V0	LZ07091E0	2	50	2-11	1	88.0	3.46	97	3.82	83	3.27	75	2.95	4.11	1,865

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.



Plugs (Male)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Fig.	Dimensions								Weight	
						D		E		F		G		Hex	
		(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
LZ0700200		3/8	8	3/8-28	2	26.0	1.02	11.0	0.43	18.4	0.72	10.5	0.41	16	0.63
LZ0701200		1/4	10	1/4-19	2	25.5	1.00	14.2	0.56	21.0	0.82	10.5	0.41	19	0.75
LZ0702200		3/8	12	3/8-19	2	28.0	1.10	19.0	0.75	26.0	1.02	10.7	0.42	23	0.90
LZ0703200		1/2	15	1/2-14	2	33.0	1.30	20.6	0.81	30.0	1.18	13.0	0.51	27	1.06
LZ0704200		3/4	20	3/4-14	2	40.0	1.57	27.9	1.10	38.0	1.50	14.0	0.55	35	1.38
LZ0705200		1	25	1-11	2	44.0	1.73	32.4	1.27	45.0	1.77	18.5	0.73	41	1.61
LZ0706200		1 1/4	33	1 1/4-11	2	54.0	2.12	44.0	1.73	60.0	2.36	21.0	0.83	55	2.16
LZ0707200		1 1/2	40	1 1/2-11	2	59.0	2.32	53.5	2.10	71.9	2.83	22.0	0.87	65	2.56
LZ0709200		2	50	2-11	2	68.0	2.68	62.8	2.47	83.0	3.27	27.0	1.06	75	2.95

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.

L7000 Series (Stainless Steel) Full Flow

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part/Order Number Anodized Aluminum	Plug Dust Cap Part/Order Number Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body size		Seal & Back-up Ring Kit*				
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00	50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00	50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00	50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00	50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00	50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	LG 07061 00	15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	LG 07071 00	15 O-rings + 15 Backup rings	-	-	-	-
2	LG 07091 00	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits.

FF Series (Steel) ISO 16028 Interchange

Fluid transfer & Hydraulic application



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

Global region

Product Features

- Meets or exceeds the ISO 16028 standard
- Push-to-connect
- Standard sleeve lock prevents accidental disconnection
- Color identification rings available to help prevent crossing of lines
- Standard Seal Material: NBR+AU
- Standard Material: High-resistant carbon steel with Dura-Kote plating, a whole new level of corrosion resistance with minimum 720 hours RR protection
- Dura-Kote plating:
 - Nickel-free
 - Solvent-free
 - Meets Global RoHS, ELV and REACH requirements
- Available seal options: NBR+AU, FKM, EPDM, HNBR (upon request)

Physical characteristics

ISO Size*	Coupling Size	Maximum Operating Pressure						Minimum Burst Pressure						Fluid Loss	Air Inclusion	Force to Connect			
		Connected***		Plug / Male Half		Socket / Female Half		Connected		Plug / Male Half		Socket / Female Half							
		(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)						
(mm)	(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml-cc.	ml-cc.	N	Lbs
6.3	¼	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	18	4.8	0.004	0.007	80	18.0
10.0	⅜	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	40	10.6	0.006	0.010	140	31.5
12.5	½	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	77	20.3	0.012	0.013	195	43.8
16.0	⅝	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	82	21.7	0.016	0.030	205	46.1
19.0	¾	400	5,800	400	5,800	400	5,800	1,300	18,850	1,300	18,850	1,400	20,300	114	30.1	0.034	0.015	215	48.3
25.0	1	400	5,800	400	5,800	400	5,800	1,260	18,270	1,260	18,270	1,260	18,270	184	48.6	0.032	0.033	260	58.5
-	1¼	300	4,350	300	4,350	300	4,350	900	13,050	900	13,050	900	13,050	260	68.7	0.170	0.053	200	45.0
-	1½	300	4,350	300	4,350	270	3,915	900	13,050	900	13,050	810	11,745	450	118.9	0.265	0.445	385	86.6
-	2	300	4,350	300	4,350	225	3,260	900	13,050	900	13,050	675	9,790	700	184.9	0.390	0.260	375	84.3

* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).

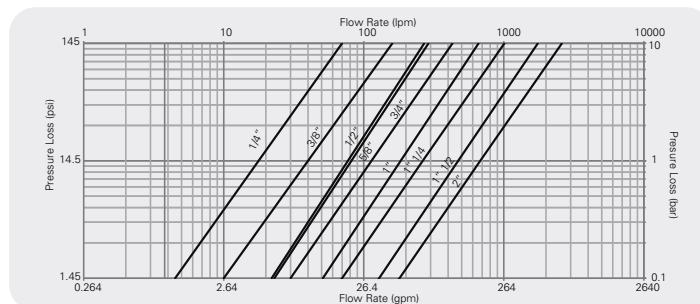
** Indicated values refer to a 1 bar/14.5 psi pressure drop.

*** 400 bar for static, steady or non-pulsed applications, 350 bar for ISO pressure rating for dynamic applications with moderate hydraulic shock.

Applications & Markets

- Hydraulic and Fluid Transfer
- Construction Equipment
- Agricultural Equipment
- Utility Vehicles
- On-Highway Vehicles
- Stationary In-plant Hydraulics and Fluid Transfer
- Interchangeable with HTMA couplings in the 3/8" size

Flow Data



Seal Elastomer Data*

Seal Elastomer	P/N Code	ISO Size (6FF, 10FF, 12FF, 16FF, 19FF and 25FF) Maximum Operation Temperature Range	Non-ISO Size (32FF, 50FF and 50FF) Maximum Operation Temperature Range
NBR (Nitrile) + AU (Polyurethane)	-143	-25°C +100°C/-13°F +212°F	-25°C +100°C/-13°F +212°F
FKM	-192	-20°C +200°C/-4°F +392°F	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)	-507	-40°C +150°C/-40°F +302°F	-40°C +150°C/-40°F +302°F
HNBR	-242	-32°C +150°C/-25°F +302°F	-32°C +150°C/-25°F +302°F
Kalrez® 6375	-503	-20°C +275°C/-4°F +527°F	-20°C +275°C/-4°F +527°F
Generic FFKM (Perfluorocarbon)	300	-15°C +275°C/+5°F +527°F	-15°C +275°C/+5°F +527°F

*For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

European Pressure Equipment Directive

All couplings are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous).

Maximum Operating Pressure

Coupling Nominal Flow Size	Nominal Flow Diameter (mm)	Non hazardous liquids Group 2 Plug & Connected		Non hazardous liquids Group 2 Socket		Non hazardous gases Group 2 Plug & Connected		Non hazardous gases Group 2 Socket		Hazardous liquids Group 1 Plug & Connected		Hazardous liquids Group 1 Socket	
		(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)
1 1/2	30.1	300	4,350	270	3,915	300	4,350	270	3,915	66	955	66	955
2	39.2	300	4,350	225	3,260	25	360	25	360	50	725	50	725

* Nominal diameters over 25mm should not be used to convey gases in group 1 (PED 2014/68/EU)

FF Series (Steel) ISO 16028 Interchange

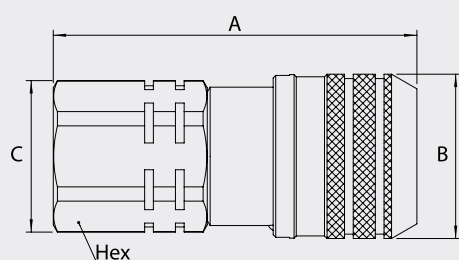
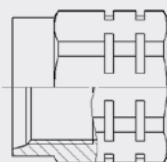


Figure 1

End-connection

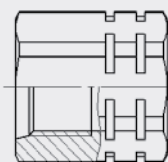
ISO 6149-1

15° + metric thread



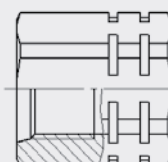
SAE J 1926-1

15° + UN/UNF thread



Danfoss S013A

15° + BSPP thread



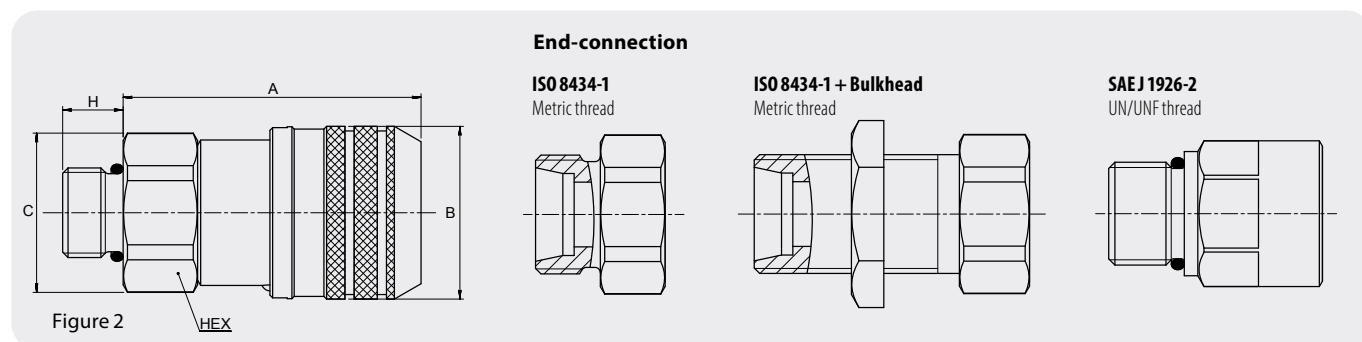
Sockets (Female)

Part/Order Number NBR+AU	Body Size	ISO Size	Nominal Flow Diameter	Thread Size* (Female)				Danfoss S013A	Fig.	Dimensions						Weight			
				NPT	BSPP	ISO 6149-1	SAE J 1926-1			A		B		C		Hex	(in)	lbs	grams
										(mm)	(in)	(mm)	(in)	(mm)	(in)				
6FFS25	¼	6.3	6.0	¼ 18f	-	-	-	-	1	54.0	2.13	27.0	1.06	24.0	0.94	22	0.87	-	-
6FFS25BS	¼	6.3	6.0	-	¼-19	-	-	-	1	54.0	2.13	27.0	1.06	24.0	0.94	22	0.87	-	-
6FFS25FG	¼	6.3	6.0	-	-	-	-	G ¼	1	54.0	2.13	27.0	1.06	24.0	0.94	22	0.87	0.32	143
6FFS56UN	¼	6.3	6.0	-	-	-	¾ 18f UNF	-	1	55.0	2.17	27.0	1.06	24.0	0.94	22	0.87	-	-
10FFS16FMET	¾	10.0	8.6	-	-	M16x1.5	-	-	1	67.8	2.67	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS37	¾	10.0	8.6	¾ 18f	-	-	-	-	1	67.8	2.67	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS37BS	¾	10.0	8.6	-	¾-19	-	-	-	1	67.8	2.67	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS37FG	¾	10.0	8.6	-	-	-	-	G ¾	1	67.8	2.67	32.0	1.26	29.5	1.16	27	1.06	0.56	255
10FFS50	¾	10.0	8.6	½ 14f	-	-	-	-	1	70.8	2.79	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS50BS	¾	10.0	8.6	-	½-14	-	-	-	1	70.8	2.79	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS50FG	¾	10.0	8.6	-	-	-	-	G ½	1	70.8	2.79	32.0	1.26	29.5	1.16	27	1.06	0.55	251
10FFS56UN	¾	10.0	8.6	-	-	-	¾ 18f UNF	-	1	70.8	2.79	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS75UN	¾	10.0	8.6	-	-	-	¾ 16f UNF	-	1	70.8	2.79	32.0	1.26	29.5	1.16	27	1.06	-	-
10FFS87UN	¾	10.0	8.6	-	-	-	¾ 14f UNF	-	1	73.8	2.91	32.0	1.26	33.0	1.30	30	1.18	-	-
12FFS106UN	½	12.5	11.0	-	-	-	1½ 12f UN	-	1	83.0	3.26	38.2	1.50	39.5	1.56	36	1.42	-	-
12FFS50	½	12.5	11.0	½ 14f	-	-	-	-	1	77.0	3.03	38.2	1.50	39.5	1.56	36	1.42	-	-
12FFS50BS	½	12.5	11.0	-	½-14	-	-	-	1	77.0	3.03	38.2	1.50	39.5	1.56	36	1.42	-	-
12FFS50FG	½	12.5	11.0	-	-	-	-	G ½	1	77.0	3.03	38.2	1.50	39.5	1.56	36	1.42	1.1	498
12FFS75	½	12.5	11.0	¾ 14f	-	-	-	-	1	80.0	3.14	38.2	1.50	39.5	1.56	36	1.42	-	-
12FFS75BS	½	12.5	11.0	-	¾-14	-	-	-	1	80.0	3.14	38.2	1.50	39.5	1.56	36	1.42	-	-
12FFS75FG	½	12.5	11.0	-	-	-	-	G ¾	1	80.0	3.14	38.2	1.50	39.5	1.56	36	1.42	1.08	488
12FFS75UN	½	12.5	11.0	-	-	-	¾ 16f UNF	-	1	77.0	3.03	38.2	1.50	39.5	1.56	36	1.42	-	-
12FFS87UN	½	12.5	11.0	-	-	-	¾ 14f UNF	-	1	80.0	3.14	38.2	1.50	39.5	1.56	36	1.42	-	-
16FFS106UN	¾	16.0	13.0	-	-	-	1½ 12f UN	-	1	89.0	3.50	42.2	1.66	39.5	1.56	36	1.42	-	-
16FFS50	¾	16.0	13.0	½ 14f	-	-	-	-	1	83.0	3.27	42.2	1.66	39.5	1.56	36	1.42	-	-
16FFS50BS	¾	16.0	13.0	-	½-14	-	-	-	1	83.0	3.27	42.2	1.66	39.5	1.56	36	1.42	-	-
16FFS75	¾	16.0	13.0	¾ 14f	-	-	-	-	1	86.0	3.39	42.2	1.66	39.5	1.56	36	1.42	-	-
16FFS75BS	¾	16.0	13.0	-	¾-14	-	-	-	1	86.0	3.39	42.2	1.66	39.5	1.56	36	1.42	-	-
16FFS75FG	¾	16.0	13.0	-	-	-	-	G ¾	1	86.0	3.39	42.2	1.66	39.5	1.56	36	1.42	1.20	548
16FFS75UN	¾	16.0	13.0	-	-	-	¾ 16f UNF	-	1	83.0	3.27	42.2	1.66	39.5	1.56	36	1.42	-	-
16FFS87UN	¾	16.0	13.0	-	-	-	¾ 14f UNF	-	1	86.0	3.39	42.2	1.66	39.5	1.56	36	1.42	-	-
19FFS100	¾	19.0	15.0	1 11,5f	-	-	-	-	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	-	-
19FFS100BS	¾	19.0	15.0	-	1-11	-	-	-	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	-	-
19FFS100FG	¾	19.0	15.0	-	-	-	-	G 1	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	1.62	737
19FFS106UN	¾	19.0	15.0	-	-	-	1½ 12f UN	-	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	-	-
19FFS131UN	¾	19.0	15.0	-	-	-	1½ 12f UN	-	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	-	-
19FFS75	¾	19.0	15.0	¾ 14f	-	-	-	-	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	-	-
19FFS75BS	¾	19.0	15.0	-	¾-14	-	-	-	1	96.6	3.80	46.2	1.82	46.0	1.81	42	1.65	-	-
25FFS100	1	25.0	18.0	1 11,5f	-	-	-	-	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	-	-
25FFS100BS	1	25.0	18.0	-	1-11	-	-	-	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	-	-
25FFS125	1	25.0	18.0	1 ¼ 11,5f	-	-	-	-	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	-	-
25FFS125BS	1	25.0	18.0	-	1 ¼-11	-	-	-	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	-	-
25FFS125FG	1	25.0	18.0	-	-	-	-	G 1¼	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	2.74	1,246
25FFS131UN	1	25.0	18.0	-	-	-	1½ 12f UN	-	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	2.77	126
25FFS162UN	1	25.0	18.0	-	-	-	1½ 12f UN	-	1	103.5	4.07	55.2	2.17	60.0	2.36	55	2.17	-	-
32FFS125	1¼	-	22.1	1 ¼-11,5	-	-	-	-	1	125.2	4.93	64.8	2.55	60.0	2.36	55	2.17	4.22	1,915
32FFS125BS	1¼	-	22.1	-	1 ¼-11	-	-	-	1	125.2	4.93	64.8	2.55	60.0	2.36	55	2.17	4.18	1,897
32FFS162UN	1¼	-	22.1	-	-	-	1½ 12 UN	-	1	125.2	4.93	64.8	2.55	60.0	2.36	55	2.17	4.16	1,894
40FFS150	1½	-	30.1	1 ½-11,5	-	-	-	-	1	127.4	5.01	79.5	3.13	70.0	2.76	65	2.56	6.16	2,796
40FFS150BS	1½	-	30.1	-	1 ½-11	-	-	-	1	127.4	5.01	79.5	3.13	70.0	2.76	65	2.56	6.13	2,781
40FFS150FG	1½	-	30.1	-	-	-	-	1 ½	1	127.4	5.01	79.5	3.13	70.0	2.76	65	2.56	6.12	2,775
40FFS187UN	1½	-	30.1	-	-	-	1½ 12 UN	-	1	127.4	5.01	79.5	3.13	70.0	2.76	65	2.56	6.10	2,767
50FFS200	2	-	39.2	2-11,5	-	-	-	-	1	156.8	6.17	97.5	3.84	87.8	3.46	80	3.15	10.87	4,931
50FFS200BS	2	-	39.2	-	2-11	-	-	-	1	156.8	6.17	97.5	3.84	87.8	3.46	80	3.15	10.82	4,908
50FFS250UN	2	-	39.2	-	-	-	2 ½ 12 UN	-	1	156.8	6.17	97.5	3.84	87.8	3.46	80	3.15	10.64	4,825

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

FF Series (Steel) ISO 16028 Interchange



Sockets (Female)

Part/Order NBR+AU	Body Size	ISO Size	Nominal Flow Diameter	Thread Size* (Male)		Dimensions										Weight		
				ISO 8434-1	SAE J 1926-2	Fig.	A	B	C	H	Hex	(in)	lbs	grams				
	(in)	(mm)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
6FFS10LBH	¼	6.3	6.0	10L - M16x1,5+ bulkhead	-	2	42.0	1.65	27.0	1.06	24.0	0.94	35.0	1.38	22.0	0.87	-	-
6FFS8L	¾	6.3	6.0	8L - M14x1,5	-	2	42.0	1.65	27.0	1.06	24.0	0.94	10.0	0.39	22.0	0.87	-	-
10FFS8L	¾	10.0	6.0	8L - M14x1,5	-	2	59.3	2.33	32.0	1.26	29.5	1.16	10.0	0.39	27.0	1.06	0.52	236
10FFS10L	1	10.0	8.0	10L - M16x1,5	-	2	59.3	2.33	32.0	1.26	29.5	1.16	11.0	0.43	27.0	1.06	0.52	234
10FFS10LBH	1	10.0	8.0	10L - M16x1,5	-	2	54.8	2.16	32.0	1.26	29.5	1.16	11.0	0.43	27.0	1.06	0.55	255
10FFS12L	1	10.0	10.0	12L - M18x1,5	-	2	57.8	2.28	32.0	1.26	29.5	1.16	11.0	0.43	27.0	1.06	0.52	235
10FFS12LBH	1	10.0	10.0	12L - M18x1,5	-	2	53.8	2.12	32.0	1.26	29.5	1.16	36.0	1.42	27.0	1.06	0.55	250
10FFS15L	1	10.0	8.6	15L - M22x1,5	-	2	56.8	2.24	32.0	1.26	29.5	1.16	12.0	0.47	27.0	1.06	0.52	238
10FFS15LBH	1	10.0	8.6	15L - M22x1,5	-	2	82.3	3.24	32.0	1.26	29.5	1.16	38.0	1.50	27.0	1.06	0.62	282
10FFS16S	1	10.0	8.6	16S - M24x1,5+ bulkhead	-	2	57.3	2.26	32.0	1.26	29.5	1.16	14.0	0.55	27.0	1.06	0.46	211
10FFS56ORM	1¼	10.0	8.6	-	¾ 18f UNF	2	66.4	2.61	32.0	1.26	27.0	1.06	12.0	0.47	23.8	0.94	-	-
10FFS75ORM	1¼	10.0	8.6	-	¾ 16f UNF	2	66.4	2.61	32.0	1.26	27.0	1.06	14.0	0.55	23.8	0.94	-	-
12FFS15LBH	1¼	12.0	11.0	15L - M22x1,5+ bulkhead	-	2	87.0	3.42	38.2	1.50	39.5	1.56	38.0	1.50	36.0	1.42	1.05	478
12FFS16S	1½	12.0	11.0	16S - M24x1,5	-	2	64.0	2.51	38.2	1.50	39.5	1.56	14.0	0.55	36.0	1.42	1.01	460
12FFS12L	1½	12.0	11.0	12L - M18x1,5	-	2	66.0	2.59	38.2	1.50	39.5	1.56	11.0	0.43	36.0	1.42	0.92	420
12FFS15L	1½	12.0	11.0	15L - M22x1,5	-	2	64.0	2.51	38.2	1.50	39.5	1.56	12.0	0.47	36.0	1.42	0.92	420
12FFS18LBH	1½	12.0	11.0	18L - M26x1,5+ bulkhead	-	2	89.0	3.50	38.2	1.50	39.5	1.56	40.0	1.57	36.0	1.42	1.17	534
16FFS15LBH	2	16.0	12.0	15L - M22x1,5+ bulkhead	-	2	68.0	2.68	42.2	1.66	39.5	1.56	38.0	1.50	36.0	1.42	-	-
16FFS16S	2	16.0	12.0	16S - M24x1,5	-	2	70.0	2.75	42.2	1.66	39.5	1.56	14.0	0.55	36.0	1.42	1.11	505
16FFS18LBH	2	16.0	13.0	18L - M26x1,5+ bulkhead	-	2	68.0	2.68	42.2	1.66	39.5	1.56	40.0	1.57	36.0	1.42	-	-

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

Note that ISO 8434-1 will restrict usage of coupling to 250 bar for end connection 8L, 10L, 12L and 15L, and to 160 bar for end connection 18L.

FF Series (Steel) ISO 16028 Interchange

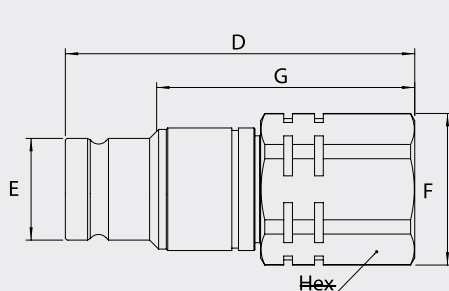
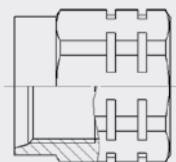


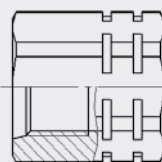
Figure 3

End-connection

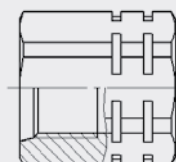
ISO 6149-1
15° + Metric thread



SAE J1926-1
15° + UN/UNF thread



Danfoss S013A
15° + BSPP Thread



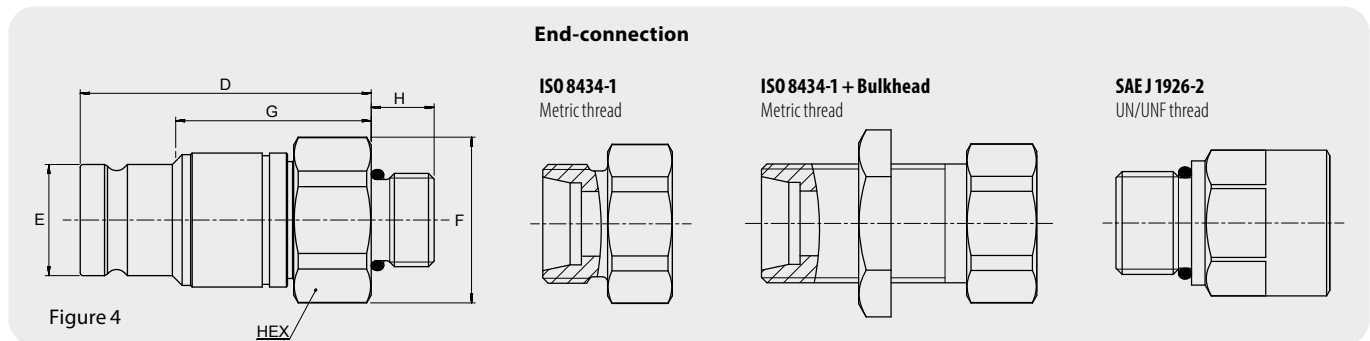
Plugs (Male)

Part/Order Number NBR+AU	Body ISO		Nominal Flow Diameter	Thread Size* (Female)				Danfoss S013A	Dimensions										Weight		
	Size	Size		NPT	BSPP	ISO 6149-1	SAE J 1926-1		Fig.	D	E	F	G	Hex							
	(in)	(mm)	(mm)						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	lbs	grams		
6FFP25	¼	6.3	6.0	¼ 18f	-	-	-	-	3	51.0	2.01	16.2	0.64	24.0	0.94	40.1	1.58	22	0.87	-	-
6FFP25BS	¼	6.3	6.0	-	¼-19	-	-	-	3	51.0	2.01	16.2	0.64	24.0	0.94	40.1	1.58	22	0.87	-	-
6FFP25FG	¼	6.3	6.0	-	-	-	-	G ¼	3	51.0	2.01	16.2	0.64	24.0	0.94	40.1	1.58	22	0.87	0.20	90
6FFP56UN	¼	6.3	6.0	-	-	-	¾ 18f UNF	-	3	52.0	2.05	16.2	0.64	24.0	0.94	41.1	1.62	22	0.87	-	-
10FFP16FMET	¾	10.0	8.6	-	-	M16x1.5	-	-	3	65.0	2.56	19.7	0.78	29.5	1.16	49.7	1.96	27	1.06	-	-
10FFP37	¾	10.0	8.6	¾ 18f	-	-	-	-	3	65.0	2.56	19.7	0.78	29.5	1.16	49.7	1.96	27	1.06	-	-
10FFP37BS	¾	10.0	8.6	-	¾-19	-	-	-	3	65.0	2.56	19.7	0.78	29.5	1.16	49.7	1.96	27	1.06	-	-
10FFP37FG	¾	10.0	8.6	-	-	-	-	G ¾	3	65.0	2.56	19.7	0.78	29.5	1.16	49.7	1.96	27	1.06	0.35	157
10FFP50	¾	10.0	8.6	½ 14f	-	-	-	-	3	68.0	2.68	19.7	0.78	29.5	1.16	52.7	2.08	27	1.06	-	-
10FFP50BS	¾	10.0	8.6	-	½-14	-	-	-	3	68.0	2.68	19.7	0.78	29.5	1.16	52.7	2.08	27	1.06	-	-
10FFP50FG	¾	10.0	8.6	-	-	-	-	G ½	3	68.0	2.68	19.7	0.78	29.5	1.16	52.7	2.08	27	1.06	0.33	150
10FFP56UN	¾	10.0	8.6	-	-	-	¾ 18f UNF	-	3	68.0	2.68	19.7	0.78	29.5	1.16	52.7	2.08	27	1.06	-	-
10FFP75UN	¾	10.0	8.6	-	-	-	¾ 16f UNF	-	3	68.0	2.68	19.7	0.78	29.5	1.16	52.7	2.08	27	1.06	-	-
10FFP87UN	¾	10.0	8.6	-	-	-	¾ 14f UNF	-	3	71.0	2.80	19.7	0.78	33.0	1.30	55.7	2.19	30	1.18	-	-
12FFP106UN	½	12.5	11.0	-	-	-	1½ 12f UN	-	3	75.0	2.95	24.5	0.96	39.5	1.56	58.0	2.28	36	1.42	-	-
12FFP50	½	12.5	11.0	½ 14f	-	-	-	-	3	69.0	2.71	24.5	0.96	39.5	1.56	52.0	2.05	36	1.42	-	-
12FFP50BS	½	12.5	11.0	-	½-14	-	-	-	3	69.0	2.71	24.5	0.96	39.5	1.56	52.0	2.05	36	1.42	-	-
12FFP50FG	½	12.5	11.0	-	-	-	-	G ½	3	69.0	2.71	24.5	0.96	39.5	1.56	52.0	2.05	36	1.42	0.67	305
12FFP75	½	12.5	11.0	¾ 14f	-	-	-	-	3	72.0	2.83	24.5	0.96	39.5	1.56	55.0	2.16	36	1.42	-	-
12FFP75BS	½	12.5	11.0	-	¾-14	-	-	-	3	72.0	2.83	24.5	0.96	39.5	1.56	55.0	2.16	36	1.42	-	-
12FFP75FG	½	12.5	11.0	-	-	-	-	G ¾	3	72.0	2.83	24.5	0.96	39.5	1.56	55.0	2.16	36	1.42	0.65	295
12FFP75UN	½	12.5	11.0	-	-	-	¾ 16f UNF	-	3	69.0	2.71	24.5	0.96	39.5	1.56	52.0	2.05	36	1.42	-	-
12FFP87UN	½	12.5	11.0	-	-	-	¾ 14f UNF	-	3	72.0	2.83	24.5	0.96	39.5	1.56	55.0	2.16	36	1.42	-	-
16FFP106UN	¾	16.0	13.0	-	-	-	1½ 12f UN	-	3	75.0	2.95	27.0	1.06	39.5	1.56	58.0	2.28	36	1.42	-	-
16FFP50	¾	16.0	13.0	½ 14f	-	-	-	-	3	69.0	2.71	27.0	1.06	39.5	1.56	52.0	2.05	36	1.42	-	-
16FFP50BS	¾	16.0	13.0	-	½-14	-	-	-	3	69.0	2.71	27.0	1.06	39.5	1.56	52.0	2.05	36	1.42	-	-
16FFP75	¾	16.0	13.0	¾ 14f	-	-	-	-	3	72.0	2.83	27.0	1.06	39.5	1.56	55.0	2.16	36	1.42	-	-
16FFP75BS	¾	16.0	13.0	-	¾-14	-	-	-	3	72.0	2.83	27.0	1.06	39.5	1.56	55.0	2.16	36	1.42	-	-
16FFP75FG	¾	16.0	13.0	-	-	-	-	G ¾	3	72.0	2.83	27.0	1.06	39.5	1.56	55.0	2.16	36	1.42	0.7	317
16FFP75UN	¾	16.0	13.0	-	-	-	¾ 16f UNF	-	3	69.0	2.71	27.0	1.06	39.5	1.56	52.0	2.05	36	1.42	-	-
16FFP87UN	¾	16.0	13.0	-	-	-	¾ 14f UNF	-	3	72.0	2.83	27.0	1.06	39.5	1.56	55.0	2.16	36	1.42	-	-
19FFP100	¾	19.0	15.0	1 11,5f	-	-	-	-	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	-	-
19FFP100BS	¾	19.0	15.0	-	1-11	-	-	-	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	-	-
19FFP100FG	¾	19.0	15.0	-	-	-	-	G 1	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	1.14	518
19FFP106UN	¾	19.0	15.0	-	-	-	1½ 12f UN	-	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	-	-
19FFP131UN	¾	19.0	15.0	-	-	-	1½ 12f UN	-	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	-	-
19FFP75	¾	19.0	15.0	¾ 14f	-	-	-	-	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	-	-
19FFP75BS	¾	19.0	15.0	-	¾-14	-	-	-	3	93.8	3.69	29.9	1.18	46.0	1.81	72.0	2.84	42	1.65	-	-
25FFP100	1	25.0	18.0	1 11,5f	-	-	-	-	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	-	-
25FFP100BS	1	25.0	18.0	-	1-11	-	-	-	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	-	-
25FFP125	1	25.0	18.0	1 ¼ 11,5f	-	-	-	-	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	-	-
25FFP125BS	1	25.0	18.0	-	1 ¼-11	-	-	-	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	-	-
25FFP125FG	1	25.0	18.0	-	-	-	-	G 1¼	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	2.08	948
25FFP131UN	1	25.0	18.0	-	-	-	1½ 12f UN	-	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	2.09	952
25FFP162UN	1	25.0	18.0	-	-	-	1½ 12f UN	-	3	104.6	4.12	36.0	1.42	60.0	2.36	81.7	3.22	55	2.17	-	-
32FFP125	1¼	-	22.1	1 ¼-11,5	-	-	-	-	3	105.5	4.15	44.0	1.73	60.0	2.36	82.3	3.24	55	2.17	2.63	1,193
32FFP125BS	1¼	-	22.1	-	1 ¼-11	-	-	-	3	105.5	4.15	44.0	1.73	60.0	2.36	82.3	3.24	55	2.17	2.60	1,177
32FFP162UN	1¼	-	22.1	-	-	-	1½ 12 UN	-	3	105.5	4.15	44.0	1.73	60.0	2.36	82.3	3.24	55	2.17	2.59	1,174
40FFP150	1½	-	30.1	1 ½-11,5	-	-	-	-	3	105.0	4.13	57.0	2.24	66.3	2.61	76.5	3.01	60	2.36	3.15	1,430
40FFP150BS	1½	-	30.1	-	1 ½-11	-	-	-	3	105.0	4.13	57.0	2.24	66.3	2.61	76.5	3.01	60	2.36	3.12	1,417
40FFP150FG	1½	-	30.1	-	-	-	-	1 ½	3	105.0	4.13	57.0	2.24	66.3	2.61	76.5	3.01	60	2.36	3.11	1,412
40FFP187UN	1½	-	30.1	-	-	-	1½ 12 UN	-	3	105.0	4.13	57.0	2.24	66.3	2.61	76.5	3.01	60	2.36	3.10	1,406
50FFP200	2	-	39.2	2-11,5	-	-	-	-	3	135.0	5.31	73.0	2.87	83.5	3.29	96.6	3.80	75	2.95	6.01	2,725
50FFP200BS	2	-	39.2	-	2-11	-	-	-	3	135.0	5.31	73.0	2.87	83.5	3.29	96.6	3.80	75	2.95	5.97	2,706
50FFP250UN	2	-	39.2	-	-	-	2 ½ 12 UN	-	3	135.0	5.31	73.0	2.87	83.5	3.29	96.6	3.80	75	2.95	5.78	2,623

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

FF Series (Steel) ISO 16028 Interchange



Plugs (Male)

Part/Order Number NBR+AU	Body ISO Size	ISO Size	Nominal Flow Diameter	Thread Size* (Male)	SAE J 1926-2	Fig.	Dimensions										Weight			
				ISO 8434-1			D	E	F	G	H	Hex								
	(in)	(mm)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
6FFP8LBH	¼	6.3	6.0	8L - M14x1,5	-	4	39.0	1.54	16.2	0.64	24.0	0.94	28.1	1.11	34.0	1.33	22.0	0.87	0.22	103.0
6FFP10L	¼	6.3	6.0	10L - M16x1,5	-	4	39.0	1.54	16.2	0.64	24.0	0.94	28.1	1.11	35.0	1.38	22.0	0.87	0.15	71.5
6FFP10LBH	¼	6.3	6.0	M10L 16x1,5+ bulkhead	-	4	39.0	1.54	16.2	0.64	24.0	0.94	28.1	1.11	35.0	1.38	22.0	0.87	0.27	123.0
10FFP8L	⅜	10.0	6.0	8L - M14x1,5	-	4	56.0	2.20	19.7	0.78	29.5	1.16	46.7	1.84	10.0	0.39	27.0	1.06	0.30	137.0
10FFP10L	⅜	10.0	8.0	10L - M16x1,5	-	4	55.0	2.17	19.7	0.78	29.5	1.16	46.7	1.84	11.0	0.43	27.0	1.06	0.30	135.0
10FFP10LBH	⅜	10.0	8.0	10L - M16x1,5	-	4	52.0	2.05	19.7	0.78	29.5	1.16	36.7	1.45	35.0	1.38	27.0	1.06	0.35	160.0
10FFP12L	⅜	10.0	10.0	12L - M18x1,5	-	4	55.0	2.17	19.7	0.78	29.5	1.16	35.7	1.41	11.0	0.43	27.0	1.06	0.30	136.0
10FFP15L	⅜	10.0	8.6	5L - M22x1,5	-	4	54.0	2.13	19.7	0.78	29.5	1.16	46.7	1.84	12.0	0.47	27.0	1.06	0.31	139.0
10FFP15LBH	⅜	10.0	8.6	15L - M22x1,5+ bulkhead	-	4	51.0	2.01	19.7	0.78	29.5	1.16	73.7	2.90	38.0	1.50	27.0	1.06	0.40	183.0
10FFP12S	⅜	10.0	8.6	M20x1,5	-	4	51.0	2.01	19.7	0.78	29.5	1.16	35.7	1.41	15.0	0.50	27.0	1.06	0.26	122.0
10FFP12LBH	⅜	10.0	8.6	12L - M18x1,5	-	4	52.0	2.01	19.7	0.78	29.5	1.16	35.7	1.41	36.0	1.42	27.0	1.06	0.34	158.0
10FFP16S	⅜	10.0	8.6	16S - M24x1,5	-	4	64.0	2.52	19.7	0.78	29.5	1.16	48.7	1.92	14.0	0.55	27.0	1.06	0.27	123.0
10FFP56ORM	⅜	10.0	8.6	-	⅜ 18f UNF	4	63.6	2.50	19.7	0.78	27.0	1.06	48.3	1.90	12.0	0.47	23.8	0.94	0.33	150.0
10FFP75ORM	⅜	10.0	8.6	-	¾ 16f UNF	4	63.6	2.00	19.7	0.78	27.0	1.06	48.3	1.00	14.0	0.55	23.8	0.94	0.34	156.0
12FFP12L	½	12.0	11.0	12L - M18x1,5	-	4	58.0	2.28	24.5	0.96	39.5	1.56	41.0	1.61	17.0	0.66	36.0	1.42	0.65	295.0
12FFP15L	½	12.0	11.0	15L - M22x1,5	-	4	54.0	2.12	24.5	0.96	39.5	1.56	78.0	3.07	12.0	0.47	36.0	1.42	0.51	234.0
12FFP15LBH	½	12.0	11.0	15L - M22x1,5+ bulkhead	-	4	54.0	2.12	24.5	0.96	39.5	1.56	75.0	2.95	38.0	1.00	36.0	1.42	0.65	297.0
12FFP16S	½	12.0	11.0	16S - M24x1,5	-	4	69.0	2.71	24.5	0.96	39.5	1.56	52.0	2.05	14.0	0.55	36.0	1.42	0.61	279.0
12FFP18LBH	½	12.0	11.0	18L - M26x1,5+ bulkhead	-	4	54.0	2.12	24.5	0.96	39.5	1.56	77.0	3.03	40.0	1.57	36.0	1.42	0.78	353.0
16FFP15LBH	⅝	16.0	12.0	15L - M22x1,5+ bulkhead	-	4	54.0	2.12	27.0	1.06	39.5	1.56	37.0	1.45	38.0	1.50	36.0	1.42	0.65	298.0
16FFP16S	⅝	16.0	12.0	16S - M24x1,5	-	4	69.0	2.71	27.0	1.06	39.5	1.56	52.0	2.05	14.0	0.55	36.0	1.42	0.62	280.0
16FFP18LBH	⅝	16.0	13.0	18L - M26x1,5+ bulkhead	-	4	54.0	2.12	27.0	1.06	39.5	1.56	37.0	1.45	40.0	1.57	36.0	1.42	0.78	353.0

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

Note that ISO 8434-1 will restrict usage of coupling to 250 bar for end connection 8L, 10L, 12L and 15L, and to 160 bar for end connection 18L.

Socket (Female) Dust Plug

Body Size	Body Size with color ring	Part/Order Number	Coupling Type	Dust Plug Material
(in)	(in)			
¼	⅜	SDC6FF	Socket/Female	PVC
⅜*	-	SDC10FF	Socket/Female	PVC
½	-	SDC12FF	Socket/Female	PVC
⅝	-	SDC16FF	Socket/Female	PVC
¾	½	SDC19FF	Socket/Female	PVC
1	¾	SDC25FF	Socket/Female	PVC

*Dust caps and dust plugs are offered in black.

If a color coded ring is used on the socket, the dust plug needs to be one size bigger.



Plug (Male) Dust Cap

Body Size	Part/Order Number	Coupling Type	Dust Plug Material
(in)			
¼	XPDC6FF	Plug/Male	PVC
⅜*	XPDC10FF	Plug/Male	PVC
½	XPDC12FF	Plug/Male	PVC
⅝	XPDC16FF	Plug/Male	PVC
¾	XPDC19FF	Plug/Male	PVC
1	XPDC25FF	Plug/Male	PVC

*Dust caps and dust plugs are offered in black.

If a color coded ring is used on the socket, the dust plug needs to be one size bigger.



Color Coding Ring Option*

Body Size	ISO Size	Size	Socket/Female Ring Part/Order Number**				Plug/Male Ring Part/Order Number**				Tool Part Number	Tool & Rings Kit Part Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
¼	6	6FF	CR6FFSLB	CR6FFSRD	CR6FFSYL	CR6FFSDG	CR6FFPLB	CR6FFPRD	CR6FFPYL	CR6FFPDG	CR6FFSP93	CRKIT6FF
⅜	10	10FF	CR10FFSLB	CR10FFSRD	CR10FFSYL	CR10FFSDG	CR10FFPLB	CR10FFPRD	CR10FFPYL	CR10FFPDG	CR10FFSP93	CRKIT10FF
½	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF
⅝	16	16FF	CR16FFSLB	CR16FFSRD	CR16FFSYL	CR16FFSDG	CR16FFPLB	CR16FFPRD	CR16FFPYL	CR16FFPDG	CR16FFSP93	CRKIT16FF
¾	19	19FF	CR19FFSLB	CR19FFSRD	CR19FFSYL	CR19FFSDG	CR19FFPLB	CR19FFPRD	CR19FFPYL	CR19FFPDG	CR19FFSP93	CRKIT19FF

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications. Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions. The color coded rings are easy to install by using the referenced tools. Please refer to the user guide on "Danfoss.com".

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

** Orders must be in multiples of 10 pcs.

*** The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.



FFCUP Series ISO 16028 Connect Under Pressure

Flat Face Plug/Male

Fluid transfer & Hydraulic application



Danfoss Hansen FFCUP Series plug/male coupling is an ISO 16028 standard interchange. The flush face design prevents fluid loss on disconnection and air inclusion on connection guaranteeing excellent flow capability. An integrated patented system allows the FFCUP Series plug to be connected to a socket/female half coupling under 350 bar (5075 psi) residual pressure.

Product Features

- Designed and manufactured in accordance with Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU
- Meets dimensional requirements of ISO 16028
- Push to connect
- Connect under residual pressure
- Shock resistant color coding ring option available to prevent accidental crossing of lines
- Standard Material: High-resistant carbon steel with Dura-Kote™ plating, a whole new level of corrosion resistance with minimum 720 hours RR protection
- Dura-Kote™ plating:
 - Nickel-free
 - Solvent-free
 - Meets Global RoHS, ELV and REACH requirements
- Alternative end connections available upon request
- Standard seal material: NBR (Nitrile) + AU (Polyurethane)
- Utilize FF Series dust caps

Physical characteristics

Body Size	ISO Size*	Nominal Flow Diameter	Max. Operating Pressure		Min. Burst Pressure		Rated Flow**		Air Inclusion	Fluid Loss	Force to Connect	
(in)	(mm)	(mm)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml-cc.	ml-cc.	N	Lbf
3/8	10	8.6	350	5,075	1,400	20,300	29.4	7.76	0.010	0.006	350	79
1/2	12.5	11	350	5,075	1,400	20,300	46.8	12.36	0.013	0.012	270	60.7

* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

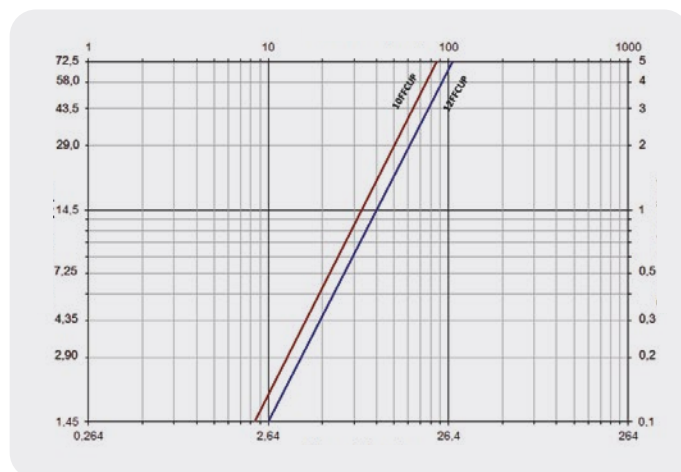
Applications & Markets

- Connection to Hydraulic pumps, jacks, distributors and accessories
- Hydraulic Circuits
- Material Handling
- Construction
- Agriculture
- Iron and Steel Industry
- Railway
- Industrial Plants

Connect Under Pressure Operating Guidelines

- The plug can be connected against 350 bar/5075 psi residual pressure to sockets/females meeting ISO 16028 standard requirements.
- Plug only is under pressure while connected
- During the connection phase, the socket must not be under pressure
- Disconnection under pressure is strictly forbidden
- Connection under pressure may require a few seconds: the force to connect must be maintained during this lapse of time

Flow Data



Seal Elastomer Data*

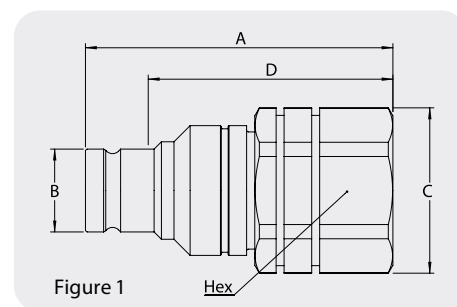
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile) + AU (Polyurethane)	-25°C +100°C/-13°F +212°F

* For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

FFCUP Series ISO 16028 Connect Under Pressure

Flat Face Plug/Male

Fluid transfer & Hydraulic application



Plugs (Male)

Part/Order Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size* (Female)			Fig.	Dimensions										Weight	
								A	B	C	D	Hex						lbs	grams
NBR	(in)	(mm)	(mm)	NPT	BSPP	SAE J 1926-1		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
10FFPCUP37				3/8-18	-	-	1	73.5	2.89	18.70	0.74	39.5	1.55	58.0	2.28	36.0	1.41	0.69	314
10FFPCUP37BS				-	3/8-19	-	1	73.5	2.89	18.70	0.74	39.5	1.55	58.0	2.28	36.0	1.41	0.69	314
10FFPCUP50				1/2-14	-	-	1	73.5	2.89	18.70	0.74	39.5	1.55	58.0	2.28	36.0	1.41	0.66	300
10FFPCUP50BS				-	1/2-14	-	1	73.5	2.89	18.70	0.74	39.5	1.55	58.0	2.28	36.0	1.41	0.66	300
12FFPCUP50				1/2-14	-	-	1	77.0	3.03	24.52	0.96	39.5	1.55	60.0	2.36	36.0	1.41	0.77	350
12FFPCUP50BS				-	1/2-14	-	1	77.0	3.03	24.52	0.96	39.5	1.55	60.0	2.36	36.0	1.41	0.76	346
12FFPCUP56UN				-	-	3/4 18f UNF	1	73.0	2.87	24.52	0.96	39.5	1.55	56.0	2.20	36.0	1.41	0.74	336
12FFPCUP75UN				-	-	3/4 16f UNF	1	77.0	3.03	24.52	0.96	39.5	1.55	60.0	2.36	36.0	1.41	0.77	351

* Alternative end connections available upon request.

Color Coding Ring Option*

Body Size	ISO Size	Nominal Flow Diameter	Plug/Male Ring Part/Order Number**				Tool Part Number
			Blue	Red	Yellow	Green	
(in)	(mm)	(mm)					
3/8	10.0	8.6	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93
1/2	12.5	11.0	CR16FFPLB	CR16FFPRD	CR16FFPYL	CR16FFPDG	CR16FFSP93

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications. Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions. The color coded rings are easy to install by using the referenced tools.

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

** Orders must be in multiples of 10 pcs.



MLFF Series (Stainless Steel) ISO 16028 Flat Face/Dry Break

Fluid transfer & Hydraulic application



Danfoss Hansen MLFF Series stainless steel coupling is a flat face dry break coupling used for hydraulic applications. The MLFF Series interchanges with all ISO 16028 profiles. Due to its stainless steel design, it is corrosion resistant and can handle aggressive environments.

Global region

Product Features

- Designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU
- Safety sleeve lock prevents accidental disconnections
- Push to connect with double shut-off valving
- Shock resistant color coding ring option available in sizes 10FF, 12FF, 16FF and 19FF to prevent accidental crossing of lines
- Resistant to aggressive environments and corrosion
- Utilize FF Series dust caps
- Standard body material: 316L Stainless steel corrosion resistant (valve material is F15NM)
- Alternative end connections available upon request
- Standard seal material: FKM, EPDM, NBR+AU, HNBR (upon request)

Physical characteristics

ISO Size*	Coupling Size	Maximum Operating Pressure				Minimum Burst Pressure				Rated Flow**	Fluid Loss	Air Inclusion	Force to Connect	
		Connected	Plug / Male Half	Socket / Female Half	Connected	Plug / Male Half	Socket / Female Half	Connected	Plug / Male Half					
(mm)	(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml-cc.	ml-cc.	N Lbs
6.3	¼	250	3,625	250	3,625	250	3,625	2,335	33,858	1,640	23,780	1,330	19,285	17 4.49 0.004 0.007 80 18.0
10.0	¾	250	3,625	250	3,625	250	3,625	1,672	24,244	1,664	24,128	845	12,253	29 7.66 0.006 0.010 140 31.5
12.5	½	250	3,625	250	3,625	250	3,625	1,679	24,346	997	14,457	993	14,399	55 14.53 0.012 0.013 195 43.8
16.0	¾	250	3,625	250	3,625	250	3,625	1,190	17,255	950	13,775	880	12,760	67 17.70 0.016 0.030 205 46.1
19.0	¾	250	3,625	250	3,625	250	3,625	1,370	19,865	882	12,789	845	12,253	105 27.74 0.034 0.015 215 48.3
25.0	1	250	3,625	250	3,625	250	3,625	1,690	24,505	1,000	14,500	850	12,325	177 46.76 0.032 0.033 260 58.5
-	1½	250	3,625	250	3,625	250	3,625	750	10,875	750	10,875	450	118.9	0.265 0.445 385 86.6
-	2	175	2,535	175	2,535	175	2,535	525	7,610	525	7,610	525	184.9	0.390 0.260 375 84.3

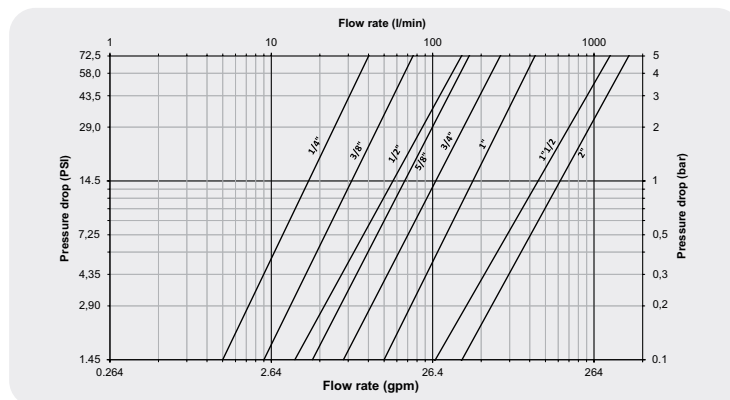
* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

Applications & Markets

- Construction
- Agriculture
- Iron and Steel Industry
- Railway
- Oil and Gas
- Marine
- Material Handling
- General Hydraulic Applications

Flow Data



European Pressure Equipment Directive

All couplings are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous).

Seal Elastomer Data*			
Seal Elastomer	P/N Code	ISO Size (6FF to 25FF) Maximum Operation Temperature Range	Non-ISO Size (40FF and 50FF) Maximum Operation Temperature Range
NBR (Nitrile) + AU (Polyurethane)	-	-25°C/+100°C/-13°F/+212°F	on request
FKM	-143	-20°C/+200°C/-4°F/+392°F	-20°C/+200°C/-4°F/+392°F
EPDM (Ethylene-Propylene)	-192	-40°C/+150°C/-40°F/+302°F	on request

*For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

Maximum Operating Pressure

Coupling Nominal Flow Size	Nominal Flow Diameter	Non hazardous liquids Group 2		Non hazardous gases Group 2		Hazardous liquids Group 1	
		Plug & Connected	Socket	Plug & Connected	Socket	Plug & Connected	Socket
	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)
1 ½	30.1	300	4,350	270	3,915	300	4,350
2	39.2	300	4,350	225	3,260	25	360

* Nominal diameters over 25mm should not be used to convey gases in group 1 (PED 2014/68/EU)

MLFF Series (Stainless Steel) ISO 16028 Flat Face/Dry Break

Global region

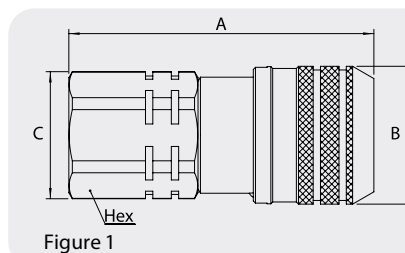


Figure 1

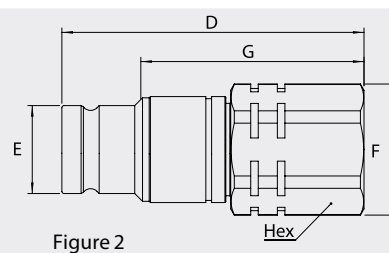


Figure 2

Sockets (Female)

Part/Order Number			Body ISO		Nominal Flow	Thread Size	Dimensions						Weight					
NBR+AU	FKM	EPDM	Size	Size	Diameter	NPT	BSPG	Fig.	A	B	C	Hex						
			(in)	(mm)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams		
ML6FFS25	ML6FFS25143	ML6FFS25192	1/4	6.3	6.0	1/4-18	-	1	540	2.13	27.0	1.06	24.0	0.94	220	0.87	0.30	135
ML6FFS25BS	ML6FFS25BS143	ML6FFS25BS192	1/4	6.3	6.0	-	1/4-19	1	540	2.13	27.0	1.06	24.0	0.94	220	0.87	0.30	135
ML10FFS37	ML10FFS37143	ML10FFS37192	3/8	10.0	8.6	3/8-18	-	1	680	2.68	32.0	1.26	29.5	1.16	270	1.06	0.54	245
ML10FFS37BS	ML10FFS37BS143	ML10FFS37BS192	3/8	10.0	8.6	-	3/8-19	1	680	2.68	32.0	1.26	29.5	1.16	270	1.06	0.54	245
ML10FFS50BS	ML10FFS50BS143	ML10FFS50BS192	3/8	10.0	8.6	-	1/2-14	1	710	2.80	32.0	1.26	29.5	1.16	270	1.06	0.53	240
ML12FFS50	ML12FFS50143	ML12FFS50192	1/2	12.5	11.0	1/2-14	-	1	830	3.27	38.0	1.50	39.5	1.56	36.0	1.42	1.03	470
ML12FFS50BS	ML12FFS50BS143	ML12FFS50BS192	1/2	12.5	11.0	-	1/2-14	1	830	3.27	38.0	1.50	39.5	1.56	36.0	1.42	1.03	470
ML12FFS75BS	ML12FFS75BS143	ML12FFS75BS192	1/2	12.5	11.0	-	3/4-14	1	860	3.39	38.0	1.50	39.5	1.56	36.0	1.42	1.01	460
ML16FFS75	ML16FFS75143	ML16FFS75192	3/4	16.0	13.0	3/4-14	-	1	860	3.39	42.0	1.66	39.5	1.56	36.0	1.42	1.21	550
ML16FFS75BS	ML16FFS75BS143	ML16FFS75BS192	3/4	16.0	13.0	-	3/4-14	1	860	3.39	42.0	1.66	39.5	1.56	36.0	1.42	1.21	550
ML19FFS75	ML19FFS75143	ML19FFS75192	3/4	19.0	15.0	3/4-14	-	1	970	3.82	46.0	1.81	45.0	1.77	41.0	1.61	1.69	770
ML19FFS75BS	ML19FFS75BS143	ML19FFS75BS192	3/4	19.0	15.0	-	3/4-14	1	970	3.82	46.0	1.81	45.0	1.77	41.0	1.61	1.69	770
ML19FFS100	ML19FFS100143	ML19FFS100192	3/4	19.0	15.0	1-11.5	-	1	970	3.80	46.0	1.82	45.0	1.77	41.0	1.61	1.56	710
ML19FFS100BS	ML19FFS100BS143	ML19FFS100BS192	3/4	19.0	15.0	-	1-11	1	970	3.82	46.0	1.81	45.0	1.77	41.0	1.61	1.56	710
ML25FFS100BS	ML25FFS100BS143	ML25FFS100BS192	1	25.0	18.0	-	1-11	1	1040	4.07	60.0	2.36	60.0	2.36	55.0	2.17	2.83	1,290
ML25FFS125	ML25FFS125143	ML25FFS125192	1	25.0	18.0	1 1/4-11.5	-	1	1040	4.07	60.0	2.36	60.0	2.36	55.0	2.17	2.83	1,290
ML40FFS150	ML40FFS150143	-	1 1/2	-	30.1	1 1/2-11.5	-	1	1274	5.01	79.5	3.13	70.0	2.76	65.0	2.56	6.16	2,767
ML40FFS150BS	ML40FFS150BS143	-	1 1/2	-	30.1	-	1 1/2-11	1	1274	5.01	79.5	3.13	70.0	2.76	65.0	2.56	6.13	2,752
-	ML50FFS200143	-	2	-	39.2	2-11.5	-	1	1568	6.17	97.5	3.84	87.8	3.46	80.0	3.15	10.87	4,883
-	ML50FFS200BS143	-	2	-	39.2	-	2-11	1	1568	6.17	97.5	3.84	87.8	3.46	80.0	3.15	10.82	4,861

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

Plugs (Male)

Part/Order Number			Body ISO		Nominal Flow		Thread Size	Dimensions						Weight			
NBR+AU	FKM	EPDM	Size	Size	Diameter	(Female)	NPT	BSPG Fig.	D	E		F		G		Hex	
			(in)	(mm)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
ML6FFP25	ML6FFP25143	ML6FFP25192	¼	6.3	6.0	¼-18	-	2	510	2.01	11.6	0.46	24.0	0.94	40.1	1.58	220
ML6FFP25BS	ML6FFP25BS143	ML6FFP25BS192	¼	6.3	6.0	-	¼-19	2	510	2.01	11.6	0.46	24.0	0.94	40.1	1.58	220
ML10FFP37	ML10FFP37143	ML10FFP37192	⅜	10.0	8.6	⅜-18	-	2	650	2.56	19.7	0.78	29.5	1.16	50.0	1.97	270
ML10FFP37BS	ML10FFP37BS143	ML10FFP37BS192	⅜	10.0	8.6	-	⅜-19	2	650	2.56	19.7	0.78	29.5	1.16	50.0	1.97	270
ML10FFP50BS	ML10FFP50BS143	ML10FFP50BS192	⅜	10.0	8.6	-	½-14	2	680	2.68	19.7	0.78	29.5	1.16	53.0	2.09	270
ML12FFP50	ML12FFP50143	ML12FFP50192	½	12.5	11.0	½-14	-	2	690	2.72	24.5	0.96	39.5	1.56	52.0	2.05	360
ML12FFP50BS	ML12FFP50BS143	ML12FFP50BS192	½	12.5	11.0	-	½-14	2	690	2.72	24.5	0.96	39.5	1.56	52.0	2.05	360
ML12FFP75BS	ML12FFP75BS143	ML12FFP75BS192	½	12.5	11.0	-	¾-14	2	720	2.83	24.5	0.96	39.5	1.56	55.0	2.17	360
ML16FFP75	ML16FFP75143	ML16FFP75192	¾	16.0	13.0	¾-14	-	2	720	2.83	27.0	1.06	39.5	1.56	36.0	1.42	360
ML16FFP75BS	ML16FFP75BS143	ML16FFP75BS192	¾	16.0	13.0	-	¾-14	2	720	2.83	27.0	1.06	39.5	1.56	36.0	1.42	360
ML19FFP75	ML19FFP75143	ML19FFP75192	¾	19.0	15.0	¾-14	-	2	940	3.70	29.9	1.18	45.0	1.77	72.0	2.83	410
ML19FFP75BS	ML19FFP75BS143	ML19FFP75BS192	¾	19.0	15.0	-	¾-14	2	940	3.70	29.9	1.18	45.0	1.77	72.0	2.83	410
ML19FFP100	ML19FFP100143	ML19FFP100192	¾	19.0	15.0	1-11.5	-	2	940	3.70	29.9	1.18	45.0	1.77	72.0	2.83	410
ML19FFP100BS	ML19FFP100BS143	ML19FFP100BS192	¾	19.0	15.0	-	1-11	2	940	3.70	29.9	1.18	45.0	1.77	72.0	2.83	410
ML25FFP100BS	ML25FFP100BS143	ML25FFP100BS192	1	25.0	18.0	-	1-11	2	1046	4.12	36.0	1.42	60.0	2.36	55.0	2.17	550
ML25FFP125	ML25FFP125143	ML25FFP125192	1	25.0	18.0	1¼-11.5	-	2	1046	4.12	36.0	1.42	60.0	2.36	55.0	2.17	550
ML40FFP150	ML40FFP150143	-	1½	-	30.1	1½-11.5	-	2	1050	4.13	57.0	2.24	66.3	2.61	76.5	3.01	600
ML40FFP150BS	ML40FFP150BS143	-	1½	-	30.1	-	1½-11	2	1050	4.13	57.0	2.24	66.3	2.61	76.5	3.01	600
-	ML50FFP200143	-	2	-	39.2	2-11.5	-	2	1350	5.31	73.0	2.87	83.5	3.29	96.6	3.80	750
-	ML50FFP200BS143	-	2	-	39.2	-	2-11	2	1350	5.31	73.0	2.87	83.5	3.29	96.6	3.80	750

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

Color Coding Ring Option*

Body Size	ISO Size	Size	Socket/Female Ring Part/Order Number**				Plug/Male Ring Part/Order Number**				Tool Part Number	Tool & Rings Kit Part Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
(in)	(mm)											
¼	6	6FF	CR6FFSLB	CR6FFSRD	CR6FFSYL	CR6FFSDG	CR6FFPLB	CR6FFPRD	CR6FFPYL	CR6FFPDG	CR6FFSP93	CRKIT6FF
⅜	10	10FF	CR10FFSLB	CR10FFSRD	CR10FFSYL	CR10FFSDG	CR10FFPLB	CR10FFPRD	CR10FFPYL	CR10FFPDG	CR10FFSP93	CRKIT10FF
½	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF
¾	16	16FF	CR16FFSLB	CR16FFSRD	CR16FFSYL	CR16FFSDG	CR16FFPLB	CR16FFPRD	CR16FFPYL	CR16FFPDG	CR16FFSP93	CRKIT16FF
1	19	19FF	CR19FFSLB	CR19FFSRD	CR19FFSYL	CR19FFSDG	CR19FFPLB	CR19FFPRD	CR19FFPYL	CR19FFPDG	CR19FFSP93	CRKIT19FF

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications.

Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions.

The color coded rings are easy to install by using the referenced tools. Please refer to the user guide on "Danfoss.com".

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

** Orders must be in multiples of 10 pcs.

*** The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.



Multi-FF

Fluid transfer & Hydraulic application



Danfoss Hansen Multi-FF system is designed for any application demanding multiple hydraulic fluid connections for power transmission. The system supports 2 to 6 flat face couplings simultaneously. The multiplate coupling system makes connectivity faster and simpler with a modular and flexible design. The configuration allows customized solutions with electrical connectors or specific couplings. The coupling body size has the ISO designation.

Product Features

- Robust, reliable and easy to use
- Supports FF couplings sizes 6 through 25
- Couplings available in Zinc plated or 316L stainless steel
- Connectable under residual pressure
- Plates constructed in aluminium
- Modular design with customization of couplings, very configurable (FF, MLDB, ADB and in every size)

Physical characteristics

MultiFF Part/Order Number	No. of coupling ports	Coupling type	Coupling body size	Pattern	Operating pressure	Seal	No. of electrical port	No. of contacts in electrical connector	End connection for couplings ##
4MFC-10CUP15LS11	4	FFCUP**	ISO 10	DLM122	250 bar	NBR	0	–	15L as per ISO 8434-1
4MFCE1-12CUP15L	4	FFCUP	ISO 12	Generic	350 bar	NBR	1	3#	15L as per ISO 8434-1
4MFC-12CUP15L	4	FFCUP	ISO 12	Generic	350 bar	NBR	0	–	15L as per ISO 8434-1
4MFC-1015L	4	FF*	ISO 10	Generic	350 bar	NBR	0	–	15L as per ISO 8434-1
4MFCE1-1015L	4	FF	ISO 10	Generic	350 bar	NBR	1	3	15L as per ISO 8434-1
6MFC-1015L	6	FF	ISO 10	Generic	350 bar	NBR	0	–	15L as per ISO 8434-1

*FF is ISO 16028 interchange flat face series coupling.

**FFCUP is ISO 16028 interchange flat face series coupling with connect under residual pressure capability on plug side.

No. Of contacts in each connector is configurable and connector can be provided with 3 to 12 number of contacts as per requirement.

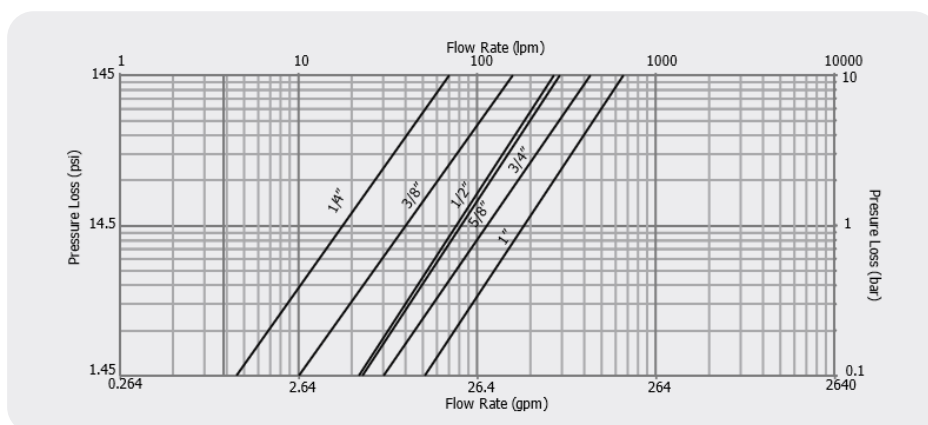
Other end connection styles and sizes are available. See next page for list of end connection available for configuration. Contact Danfoss CSR for more information.

Note 1: This limited list of configurations is indicative only. Danfoss' Multi-FF solution is highly configurable and optimum solution can be provided to meet application requirements. Please contact Danfoss CSR for more information.

Applications & Markets

- Mobile hydraulic, agriculture field
- Construction market
- Commercial vehicles

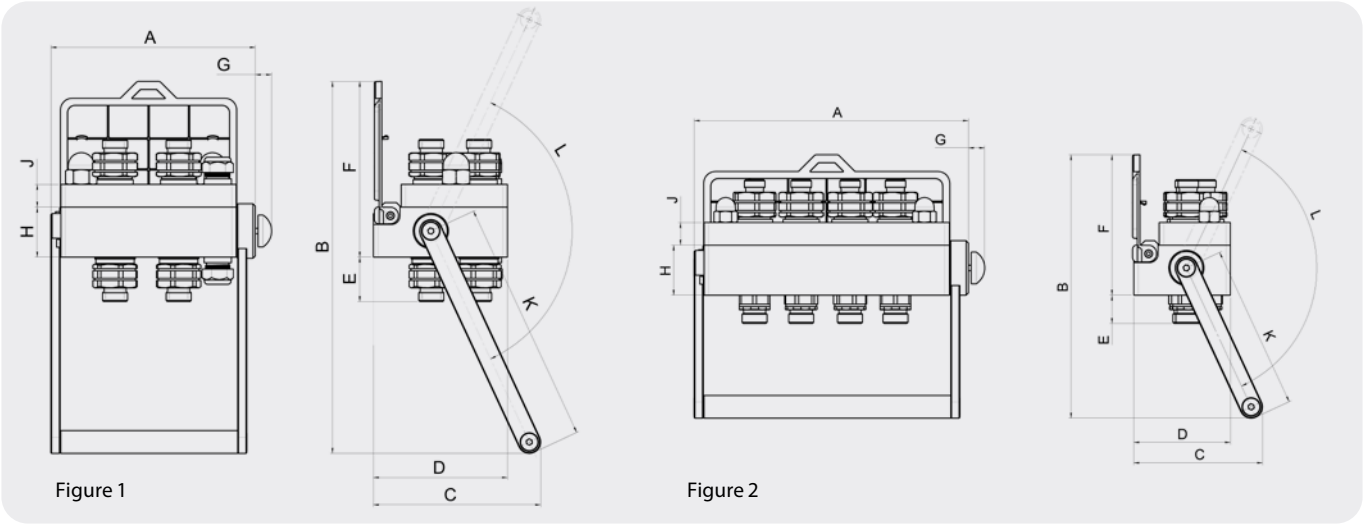
Flow Data



Note 2: This Flow chart is based on standard Flat face coupling configuration. Please contact Danfoss CSR for more information.

Multi-FF

Global region



Dimensions

Part/Order Number	Fig.	A		B		C		D		E		F		G		H		J		K		L
		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	°
4MFC-10CUP15LS11	2	241	9.4	232	9.1	113	4.4	85	3.3	25	0.9	124	4.8	14	0.5	44	1.7	20	0.7	145	5.7	130°
4MFCE1-12CUP15L	1	180	7.0	327	12.8	147	5.7	118	4.6	39	1.53	155	6.1	14	0.5	44	1.7	20	0.7	215	8.4	130°
4MFC-12CUP15L	1	180	7.0	327	12.8	147	5.7	118	4.6	39	1.53	155	6.1	14	0.5	44	1.7	20	0.7	215	8.4	130°
4MFC-1015L	1	160	6.2	288	11.3	130	5.1	107	4.2	25	0.9	144	5.6	14	0.5	44	1.7	20	0.7	185	7.2	130°
4MFCE1-1015L	1	160	6.2	288	11.3	130	5.1	107	4.2	25	0.9	144	5.6	14	0.5	44	1.7	20	0.7	185	7.2	130°
6MFC-1015L	1	205	8.0	325	9.2	143	5.6	116	4.5	25	0.9	153	6.0	14	0.5	44	1.7	20	0.7	215	8.4	130°

Note: Other configurations available upon request. Please contact your Danfoss CSR for more information.

Multi-FF

Configuration Multi-FF

4 MF C E1-12 ML 50BS 192 S11

Number of QDC

This digit specifies number of QDC's in a multi-FF set.

MF is family name for Danfoss' Multiplate solution.

Type of assembly

C: Complete set of Multi-FF system

P: Movable plate sub-assembly (attachment side)

S: Fixed plate sub-assembly (equipment side)

Electrical connector

This position indicates number of electrical connectors in particular Multi-FF system

(no code) = No electrical connector

E1 = 1 electrical connector

E2 = 2 electrical connectors

Etc.

QDC Body size

ISO size of QDC's used.

6 = 1/4"

10 = 3/8"

12 = 1/2"

16 = 5/8"

19 = 3/4"

25 = 1"

Product series code

This position is to define type of QDC being used in Multi-FF solution

- (no code) = Flat Face ISO 16028
- CUP = Flat Face Connect Under Pressure ISO 16028
- MLFF = SS version of ISO 16028 coupling
- MLDB = SS version of Dry Break coupling (water transfer etc.)
- ADB = Dry Break coupling in Aluminium (for cooling line etc.)
- G600 = Pneumatic application coupling

Danfoss internal code for special QDC pattern or configuration

Seal code

(no code) = NBR

143 = FKM

192 = EPDM

507 = HNBR

503 = FFKM

242 = Kalrez® 6375

End connection size and code

PT = NPT BS = BSPP

MET = Metric UN = UNF

L = ISO 8434-1 Light Duty

S = ISO 8434-1 Heavy Duty

End connection thread size

For BSPP, NPT, UN, UNF threads:

Fraction in inch x 100

1/4 = 25; 3/8 = 37; 1/2 = 50

5/8 = 62; 3/4 = 75; 1" = 100

For metric threads:

2 characters nominal thread size

e.g. M5 = 05; M10 = 10; M22 = 22

For ISO 8434-1 terminal end:

2 digits tube size per ISO 8434-1

FD49 Series

NFPA Standard T3.20.15 HTMA Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen FD49 Series meets NFPA standard T3.20.15 and was developed in conjunction with HTMA (Hydraulic Tool Manufacturer’s Association). Danfoss’ Twin-Guard™ sealing system prevents weepage at low pressures and allows connection and disconnection against pressure up to 500 psi.

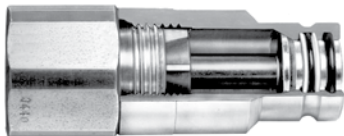
AMER region

Product Features

- 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: High resistance carbon steel with zinc trivalent plating

Physical characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only	Rated Flow		Air Inclusion	Fluid Loss
	(in)	(bar) (psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc.max.	cc.max.
3/8		207 3,000	621	9,000	28	38	10	0.01	0.02

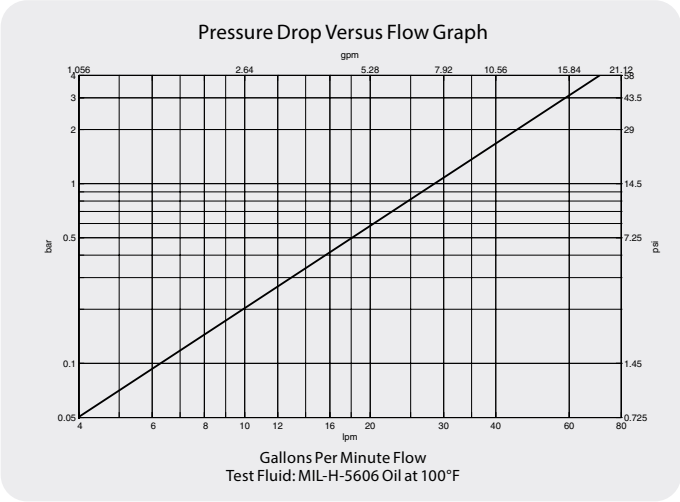


Danfoss’ Twin-Guard™ seal system consists of channel and Buna-N O-Ring seals. The channel seal prevents blowout during connection and disconnection under pressure to 500 psi. The Buna-N O-Ring seal is a secondary seal eliminating fluid weepage.

Applications & Markets

- Hydraulic tool (HTMA interchange)
- Hydraulic and fluid transfer

Flow Data



FD49 Series NFPA Standard T3.20.15 HTMA Interchange

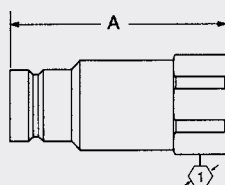


Figure 1

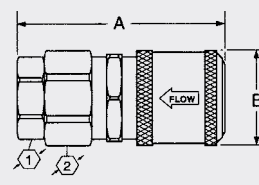


Figure 2

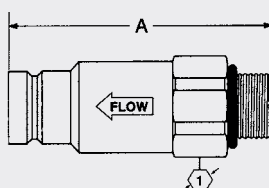


Figure 3

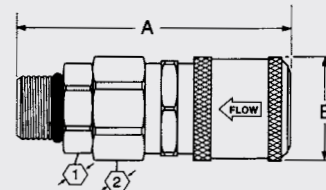


Figure 4

Dimensions (Female NPT, Valved)

Part/Order Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions							
							A		B		Hex ①		Hex ②	
							(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD49-1002-06-06	Plug/Male	¾	¾	¾-18	Female NPT	1	66.5	2.62	-	-	25.4	1.00	-	-
FD49-1001-06-06	Socket/Female	¾	¾	¾-18	Female NPT	2	69.6	2.74	30.5	1.20	25.4	1.00	26.9	1.06
FD49-1002-08-06	Plug/Male	¾	½	½-14	Female NPT	1	69.9	2.75	-	-	26.9	1.06	-	-
FD49-1001-08-06	Socket/Female	¾	½	½-14	Female NPT	2	72.4	2.85	30.5	1.20	-	-	26.9	1.06

Dimensions (Female SAE O-Ring, Valved)

Part/Order Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions							
							A		B		Hex ①		Hex ②	
							(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD49-1004-08-06	Plug/Male	⅜	¾	¾-16	Female SAE O-Ring	1	69.9	2.75	-	-	26.9	1.06	-	-
FD49-1005-08-06	Socket/Female	⅜	¾	¾-16	Female SAE O-Ring	2	71.6	2.82	30.5	1.20	-	-	26.9	1.06

Dimensions (Male SAE O-Ring, Valved)

Part/Order Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions							
							A	B		Hex ①		Hex ②		
							(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD49-1057-06-06	Plug/Male	3⁄8	5⁄16	5⁄16-18	Male SAE O-Ring	3	75.9	2.99	-	-	25.4	1.00	-	-
FD49-1014-06-06	Socket/Female	3⁄8	5⁄16	5⁄16-18	Male SAE O-Ring	4	81.8	3.22	30.5	1.20	25.4	1.00	26.9	1.06
FD49-1057-08-06	Plug/Male	3⁄8	3⁄4	3⁄4-16	Male SAE O-Ring	3	75.9	2.99	-	-	25.4	1.00	-	-
FD49-1014-08-06	Socket/Female	3⁄8	3⁄4	3⁄4-16	Male SAE O-Ring	4	83.3	3.28	30.5	1.20	25.4	1.00	26.9	1.06

Dust Cap/Plug, Standard Coupling

Part/Order Number Buna-N	Body Size
FD49-1042-06	3/8

Note: Fits male and female halves.



Dust Cap/Plug

FD96 Series High Pressure Thread to Connect Flush Face

Fluid transfer & Hydraulic application



Danfoss Hansen FD96 High Pressure Thread Together Flush Face Series is designed for high pressure and high impulse applications for hydraulic circuits. The FD96 Series design provides low connect and disconnect force in hydraulic circuits where trapped residual pressure must be addressed. The flush face design limits contamination and unwanted fluid loss. The FD96 Series is available in sizes 1/4" through 2" to best meet your specific size requirements.

Global region

Product Features

- Thread together design allows connection and disconnection under pressure up to 4,300 psi
- Low connection force
- Dual flush-face valving with non-spill design
- Working pressures up to 8,700 psi
- Body material: High resistance carbon steel with zinc trivalent and black oxide plating

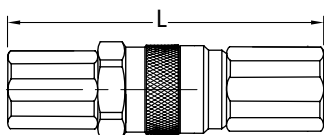
Applications & Markets

- Hydraulic Fluid Transfer
- High-impulse Hydraulics
- Oilfields
- Mining

Physical characteristics

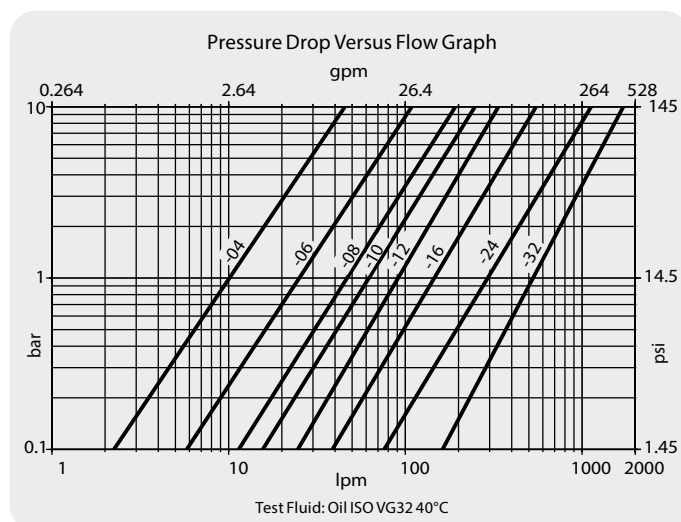
Body Size	Maximum Operating Pressure					Minimum Burst Pressure					Rated Flow	Fluid Loss		Req. Torque to Connect			
	Connected		Plug / Male Half		Socket / Female Half		Connected		Plug / Male Half							Socket / Female Half	
	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)						(bar)	(psi)
¼	600	8,700	600	8,700	420	6,090	1,500	21,750	1,500	21,750	1,260	18,270	12	3.2	0.012	29-37	40-50
⅜	550	7,980	550	7,980	330	4,785	1,400	20,300	1,400	20,300	1,000	14,500	23	6.1	0.040	37-44	50-60
½	550	7,980	550	7,980	330	4,785	1,400	20,300	1,400	20,300	1,000	14,500	45	11.9	0.025	48-55	65-75
¾	550	7,980	550	7,980	330	4,785	1,400	20,300	1,400	20,300	1,000	14,500	74	19.6	0.033	52-59	70-80
1	500	7,250	500	7,250	330	4,785	1,250	18,125	1,250	18,125	1,000	14,500	100	26.5	0.018	66-81	90-110
1¼	470	6,800	470	6,800	300	4,350	1,200	17,400	1,200	17,400	800	11,600	189	50.1	0.060	92-107	125-145
1½	400	5,800	400	5,800	270	3,915	1,700	15,950	1,100	15,950	800	11,600	288	76.3	0.200	114-129	155-175
2	350	5,080	350	5,080	270	3,915	1,100	15,950	1,100	15,950	800	11,600	379	100.4	0.350	236-258	320-355

Connected Length

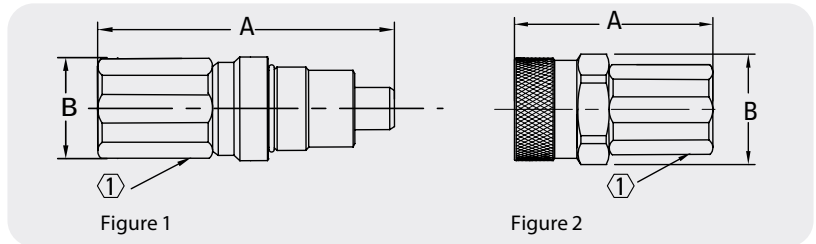


Body Size	Port Size	Connected Length "L"	
		(mm)	(in)
1/4	3/8	90.0	3.54
3/8	3/8	131.0	5.16
3/8	1/2	131.0	5.16
1/2	1/2	155.0	6.10
1/2	3/4	160.0	6.30
3/4	3/4	165.0	6.50
1	1	190.4	7.50
1	1 1/4	170.0	6.69
1 1/2	1 1/2	256.0	10.08
2	2	363.5	14.31

Flow Data



FD96 Series High Pressure Thread to Connect Flush Face



Dimensions (Female NPT)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		B	Hex ①		
							A			(mm)	(in)	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD96-1001-06-06	Socket/Female	⅜	⅜	⅜-18	Female NPT	2	65.8	2.59	41.8	1.65	30	1.18
FD96-1002-06-06	Plug/Male	⅜	⅜	⅜-18	Female NPT	1	82.5	3.25	37.8	1.49	27	1.06
FD96-1001-08-06	Socket/Female	⅜	½	½-14	Female NPT	2	70.8	2.79	41.8	1.65	30	1.18
FD96-1002-08-06	Plug/Male	⅜	½	½-14	Female NPT	1	85.0	3.35	37.8	1.49	27	1.06
FD96-1001-08-08	Socket/Female	½	½	½-14	Female NPT	2	77.8	3.06	49.8	1.96	36	1.42
FD96-1002-08-08	Plug/Male	½	½	½-14	Female NPT	1	95.0	3.74	45.8	1.80	36	1.42
FD96-1001-12-08	Socket/Female	½	¾	¾-14	Female NPT	2	84.8	3.06	49.8	1.96	36	1.42
FD96-1002-12-08	Plug/Male	½	¾	¾-14	Female NPT	1	97.4	3.83	45.8	1.80	36	1.42
FD96-1001-12-12	Socket/Female	¾	¾	¾-14	Female NPT	2	84.9	3.34	53.8	2.12	41	1.61
FD96-1002-12-12	Plug/Male	¾	¾	¾-14	Female NPT	1	99.0	3.90	49.8	1.96	36	1.42
FD96-1001-12-16	Socket/Female	1	¾	¾-14	Female NPT	2	96.7	3.81	58.8	2.31	46	1.81
FD96-1002-12-16	Plug/Male	1	¾	¾-14	Female NPT	1	113.6	4.47	54.8	2.16	46	1.81
FD96-1001-16-16	Socket/Female	1	1	1-11½	Female NPT	2	99.7	3.93	58.8	2.31	46	1.81
FD96-1002-16-16	Plug/Male	1	1	1-11½	Female NPT	1	113.6	4.47	54.8	2.16	46	1.81
FD96-1001-16-20	Socket/Female	1¼	1	1-11½	Female NPT	2	105.8	4.17	69.8	2.75	55	2.17
FD96-1002-16-20	Plug/Male	1¼	1	1-11½	Female NPT	1	123.4	4.86	64.5	2.54	55	2.17
FD96-1001-20-20	Socket/Female	1¼	1¼	1¼-11½	Female NPT	2	106.8	4.20	69.8	2.75	55	2.17
FD96-1002-20-20	Plug/Male	1¼	1¼	1¼-11½	Female NPT	1	123.4	4.86	64.5	2.54	55	2.17
FD96-1001-20-24	Socket/Female	1½	1¼	1¼-11½	Female NPT	2	133.5	5.26	92.0	3.62	65	2.56
FD96-1002-20-24	Plug/Male	1½	1¼	1¼-11½	Female NPT	1	150.0	5.91	89.8	3.54	65	2.56
FD96-1001-24-24	Socket/Female	1½	1½	1½-11½	Female NPT	2	133.5	5.26	92.0	3.62	65	2.56
FD96-1002-24-24	Plug/Male	1½	1½	1½-11½	Female NPT	1	150.0	5.91	89.8	3.54	65	2.56
FD96-1001-32-32	Socket/Female	2	2	2-11½	Female NPT	2	224.8	8.85	200.0	7.87	90	3.54
FD96-1002-32-32	Plug/Male	2	2	2-11½	Female NPT	1	218.4	8.60	145.0	5.71	90	3.54

Dimensions (Female SAE O-Ring)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex ①	
							A	B				
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD96-1004-06-04	Socket/Female	¼	⅜	⅝-18 UNF	Female SAE O-Ring	2	57.1	2.25	38.8	1.53	27	1.06
FD96-1005-06-04	Plug/Male	¼	⅜	⅝-18 UNF	Female SAE O-Ring	1	72.8	2.87	34.8	1.37	22	.87
FD96-1004-08-06	Socket/Female	⅜	½	¾-16 UNF	Female SAE O-Ring	2	70.8	2.79	41.8	1.65	30	1.18
FD96-1005-08-06	Plug/Male	⅜	½	¾-16 UNF	Female SAE O-Ring	1	87.0	3.43	37.8	1.49	27	1.06
FD96-1004-12-08	Socket/Female	½	¾	1⅜-12 UNF	Female SAE O-Ring	2	84.8	3.06	49.8	1.96	36	1.42
FD96-1005-12-08	Plug/Male	½	¾	1⅜-12UNF	Female SAE O-Ring	1	100.4	3.95	45.8	1.80	36	1.42
FD96-1004-12-12	Socket/Female	¾	¾	1⅞-12UNF	Female SAE O-Ring	2	84.9	3.34	53.8	2.12	41	1.61
FD96-1005-12-12	Plug/Male	¾	¾	1⅞-12UN	Female SAE O-Ring	1	102.0	4.02	49.8	1.96	36	1.42
FD96-1004-12-16	Socket/Female	1	¾	1⅞-12 UN	Female SAE O-Ring	2	99.7	3.93	58.8	2.31	46	1.81
FD96-1005-12-16	Plug/Male	1	¾	1⅞--12 UN	Female SAE O-Ring	1	115.6	4.55	54.8	2.16	46	1.81
FD96-1004-16-16	Socket/Female	1	1	1⅞-12 UN	Female SAE O-Ring	2	99.7	3.93	58.8	2.31	46	1.81
FD96-1005-16-16	Plug/Male	1	1	1⅞-12 UN	Female SAE O-Ring	1	113.6	4.47	54.8	2.16	46	1.81
FD96-1004-16-20	Socket/Female	1¼	1	1⅞-12 UN	Female SAE O-Ring	2	105.8	4.17	69.8	2.75	55	2.17
FD96-1005-16-20	Plug/Male	1¼	1	1⅞-12 UN	Female SAE O-Ring	1	125.4	4.94	64.5	2.54	55	2.17
FD96-1004-20-20	Socket/Female	1¼	1¼	1⅞-12 UN	Female SAE O-Ring	2	106.8	4.20	69.8	2.75	55	2.17
FD96-1005-20-20	Plug/Male	1¼	1¼	1⅞-12 UN	Female SAE O-Ring	1	123.4	4.86	64.5	2.54	55	2.17
FD96-1004-20-24	Socket/Female	1½	1¼	1⅞-12 UN	Female SAE O-Ring	2	133.5	5.26	92.0	3.62	65	2.56
FD96-1005-20-24	Plug/Male	1½	1¼	1⅞-12 UN	Female SAE O-Ring	1	150.0	5.91	89.8	3.54	65	2.56
FD96-1004-24-24	Socket/Female	1½	1½	1⅞-12 UN	Female SAE O-Ring	2	133.5	5.26	92.0	3.62	65	2.56
FD96-1005-24-24	Plug/Male	1½	1½	1⅞-12 UN	Female SAE O-Ring	1	150.0	5.91	89.8	3.54	65	2.56

Dust Caps and Dust Plugs

Body Size	Part/Order Number	Coupling Type	Cap Material
1/4	FD96-1009-04	Socket/Female	Aluminum
3/8	FD96-1009-06	Socket/Female	Aluminum
1/2	FD96-1009-08	Socket/Female	Aluminum
3/4	FD96-1009-12	Socket/Female	Aluminum
1	FD96-1009-16	Socket/Female	Aluminum
1 1/4	FD96-1009-20	Socket/Female	Aluminum
1 1/2	FD96-1009-24	Socket/Female	Aluminum
2	FD96-1009-32	Socket/Female	Aluminum

Body Size	Part/Order Number	Coupling Type	Cap Material
1/4	FD96-1010-04	Plug/Male	Aluminum
3/8	FD96-1010-06	Plug/Male	Aluminum
1/2	FD96-1010-08	Plug/Male	Aluminum
3/4	FD96-1010-12	Plug/Male	Aluminum
1	FD96-1010-16	Plug/Male	Aluminum
1 1/4	FD96-1010-20	Plug/Male	Aluminum
1 1/2	FD96-1010-24	Plug/Male	Aluminum
2	FD96-1010-32	Plug/Male	Aluminum

K8000 Series

Fluid transfer & Hydraulic application



Danfoss Hansen K8000 series hydraulic screw-to-connect quick disconnect coupling is best for applications where vibration is present and a threaded solution is needed to lock in place.

EMEA region

Product Features

- Connection by screwing up the locking sleeve
- Offers internal flat face valve to minimize air inclusion and fluid loss
- Proprietary interchange
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Buna-N

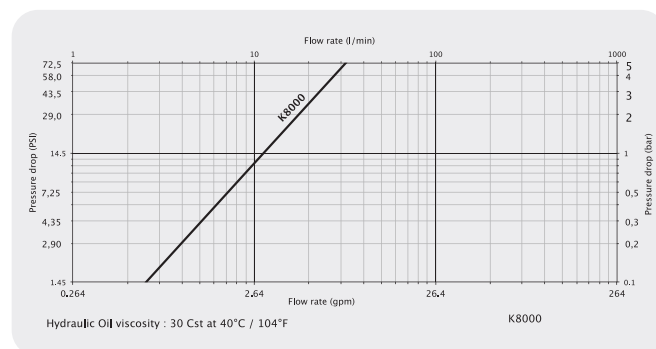
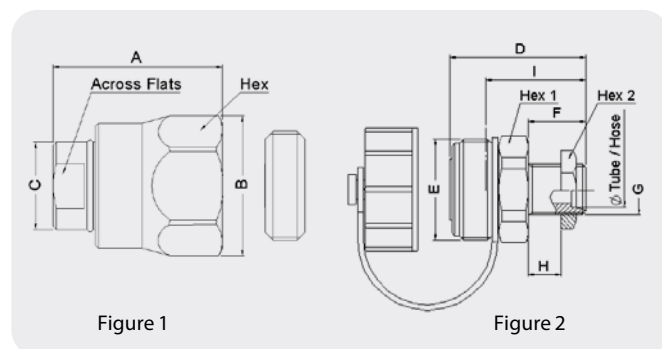
Applications & Markets

- Agriculture and Forestry Equipment

Physical characteristics

Max. Operating Pressure			Rated Flow		Air Inclusion
DN/ND (in)	(bar)	(psi)	(lpm)	(gpm)	ml max.
8	250	3,625	12	3.17	0.09

Flow Data



DN/ND	Socket and Dust Plug	Socket Dust Plug Only	Coupling Type	Connection	Fig.	Dimensions			Across Flats	
	(in)	(mm)				A	B	C	(mm)	Hex
8	KA0832718	KA0812700	Socket/Female	M18X150	1	55	45.1	27.9	23	41

DN/ND	Plug and Dust Cap	Plug Dust Cap Only	Coupling Type	Connection	Fig.	Dimensions								
						D	E	F	G	H	I	Tube	Hex 1	Hex 2
	KA0832412		Plug/Male	M18X150	2	52	36	23	M18X1,50	5	38	12	36	27
8	KA0832413	KP0812400	Plug/Male	M20X150	2	51	36	23	M20X1,50	5	37	13	36	27
	KA0802412		Plug/Male	G 1/2	2	48	36	15	G 1/2-14	-	34	-	36	-

Q9000 Series

Fluid transfer & Hydraulic application



Danfoss Hansen Q9000 Series is a brake away coupling used on agriculture and forestry vehicles.

EMEA region

Product Features

- Pull-to-connect double shut off
- Minimum air inclusion and fluid loss
- Profile in accordance to ISO 5676 and NFU 16-006 standards
- Standard body material: Zinc trivalent plated steel
- Standard seal material: NBR

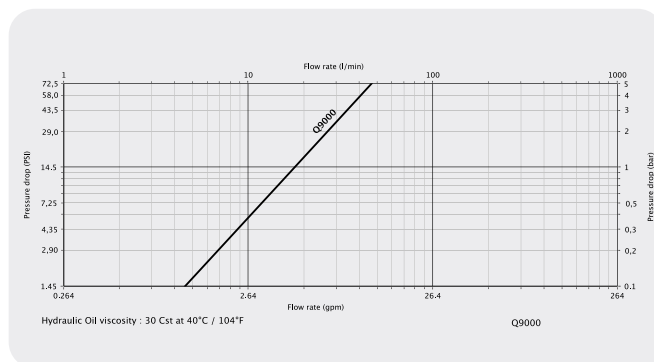
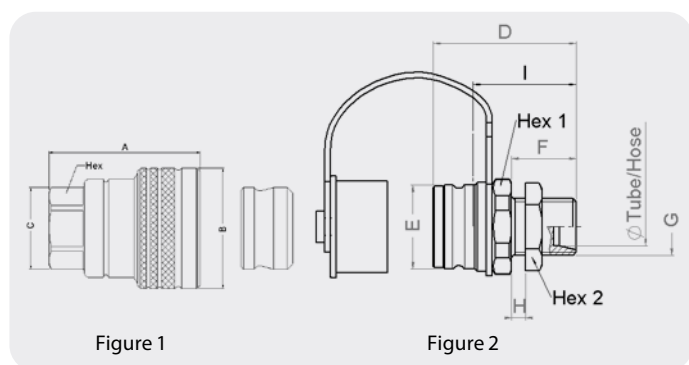
Applications & Markets

- Trailer Brake Circuits on Agriculture and Forestry Vehicles

Physical characteristics

DN/ND	Max.Operating Pressure		Rated Flow		Air Inclusion
(in)	(bar)	(psi)	(lpm)	(gpm)	ml max.
8	180	2,175	19	5.02	0.80

Flow Data



DN/ND	Socket and Dust Plug	Socket Dust Plug Only	Coupling Type	Connection	Fig.	Dimensions			
	(in)	(mm)				A	B	C	Hex
8	QA0932118	QA0912100	Socket/Female	M18X150	1	55.5	44	30.2	27

DN/ND	Plug and Dust Cap	Plug Dust Cap Only	Coupling Type	Connection	Fig.	Dimensions							
						D	E	F	G	H	I	Hex 1	Hex 1
8	QA0932212	QP0912200	Plug/Male	M18X150	2	49	30	21	M18x1,50	5	34	32	24
	QA0932213		Plug/Male	M20X150	2	51.0	30	23	M20x1,50	5	36	32	27

MLDB Series (Stainless Steel) Flat Face/Dry Break

Fluid transfer & Hydraulic application



Danfoss Hansen MLDB Series stainless steel coupling is a flat face/dry break coupling used for fluid transfer applications. The MLDB Series offers the ability to connect with less force, higher sealing performance and are available in multiple configurable end connections.

Global region

Product Features

- Designed and manufactured in accordance with Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU
- Safety sleeve lock prevents accidental disconnections
- Push to connect with double shut-off valving
- Capable of working under high temperature applications
- Shock-resistant color coding ring option available in 1/2" size
- Serviceable design allows for easy cleaning and seal replacement
- Designed with higher flow capacity and resistance to aggressive fluids and corrosion
- Standard body material: 316/316L Stainless steel corrosion resistant
- Standard seal material: FKM, EPDM, Kalrez® and generic FFKM

Physical characteristics

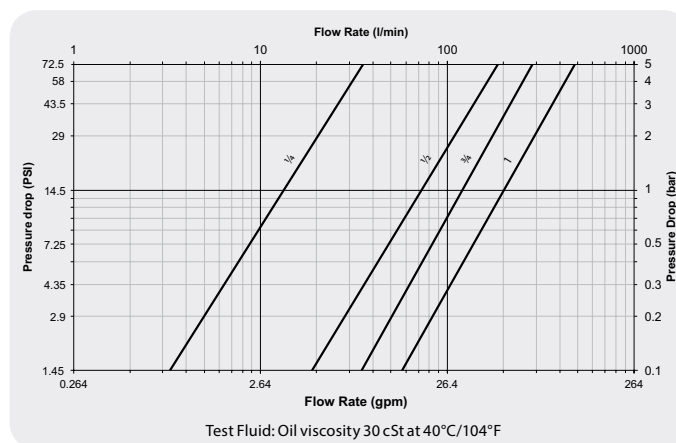
Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Rated Flow*		Air Inclusion ml-cc.	Fluid Loss ml-cc.	Force to Connect	
		(bar)	(psi)	(lpm)	(gpm)			N	Lbf
1/4	5.9	25	360	15	4	0.002	0.001	85	19
1/2	11.5	25	360	73	19	0.012	0.025	150	34
3/4	15.0	25	360	120	32	0.030	0.050	170	38
1	18.5	25	360	200	53	0.150	0.130	180	41

* Indicated values refer to a 1 bar/14.5 psi pressure drop..

Applications & Markets

- Process/Fluid Transfer
- Cooling
- Corrosive Environments
- Chemicals/Petrochemicals
- Pharmaceuticals
- Food Processing
- Electrical

Flow Data

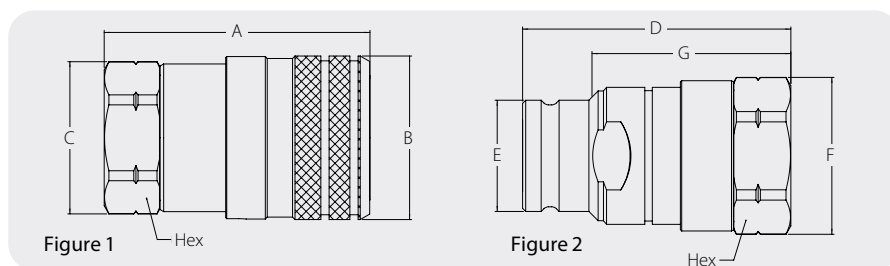


Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
FKM	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)	-40°C +150°C/-40°F +302°F
Kalrez® 6375	-20°C +275°C/-4°F +527°F
Generic FFKM (Perfluorocarbon)	-15°C +275°C/+5°F +527°F

* For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

MLDB Series (Stainless Steel) Flat Face/Dry Break



Sockets (Female)

Part/Order Number				Thread Size*				Dimensions				Weight					
FKM	EPDM	Kalrez 6375	Generic FFKM	Body (Female)			Fig.	A		B		C		Hex		lbs	grams
				Size	NPT	BSPP		(mm)	(in)	(mm)	(in)	(mm)	(in)				
ML2DBS25FBS	ML2DBS25FBS292	ML2DBS25FBS242	ML2DBS25FBS503	1/4	-	1/4-19	1	45.4	1.79	26.8	1.06	24.5	0.96	22	0.87	0.25	116
ML2DBS25F	ML2DBS25F292	ML2DBS25F242	ML2DBS25F503	1/4	1/4-18	-	1	43.9	1.73	26.8	1.06	24.5	0.96	22	0.87	0.27	127
ML4DBS50FBS	ML4DBS50FBS292	ML4DBS50FBS242	ML4DBS50FBS503	1/2	-	1/2-14	1	61.9	2.44	38.2	1.50	35.5	1.40	32	1.26	0.71	325
ML4DBS50F	ML4DBS50F292	ML4DBS50F242	ML4DBS50F503	1/2	1/2-14	-	1	61.9	2.44	38.2	1.50	35.5	1.40	32	1.26	0.70	318
ML6DBS75FBS	ML6DBS75FBS292	ML6DBS75FBS242	ML6DBS75FBS503	3/4	-	3/4-14	1	76.8	3.02	47.9	1.89	46.5	1.83	41	1.61	1.36	617
ML6DBS75F	ML6DBS75F292	ML6DBS75F242	ML6DBS75F503	3/4	3/4-14	-	1	76.8	3.02	47.9	1.89	46.5	1.83	41	1.61	1.37	622
ML8DBS100FBS	ML8DBS100FBS292	ML8DBS100FBS242	ML8DBS100FBS503	1	-	1-11	1	89.9	3.54	57.4	2.26	54.9	2.16	50	1.97	2.21	1,005
ML8DBS100F	ML8DBS100F292	ML8DBS100F242	ML8DBS100F503	1	1-11	-	1	86.9	3.42	57.4	2.26	54.9	2.16	50	1.97	2.24	1,020

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

Plugs (Male)

Part/Order Number				Thread Size*			Dimensions										Weight		
FKM	EPDM	Kalrez 6375	Generic FFKM	Body (Female)			Fig.	D	E	F	G	Hex							
				Size	NPT	BSPP													
				(in)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
ML2DBP25FBS	ML2DBP25FBS292	ML2DBP25FBS242	ML2DBP25FBS503	¼	-	¼-19	2	43.6	1.72	16.5	0.65	24.5	0.96	33.2	1.31	22	0.87	0.17	80
ML2DBP25F	ML2DBP25F292	ML2DBP25F242	ML2DBP25F503	¼	¼-18	-	2	42.1	1.66	16.5	0.65	24.5	0.96	31.7	1.25	22	0.87	0.18	82
ML4DBP50FBS	ML4DBP50FBS292	ML4DBP50FBS242	ML4DBP50FBS503	½	-	½-14	2	60.7	2.39	25.2	0.99	35.5	1.4	45.7	1.8	32	1.26	0.44	204
ML4DBP50F	ML4DBP50F292	ML4DBP50F242	ML4DBP50F503	½	½-14	-	2	60.7	2.39	25.2	0.99	35.5	1.4	45.7	1.8	32	1.26	0.47	214
ML6DBP75FBS	ML6DBP75FBS292	ML6DBP75FBS242	ML6DBP75FBS503	¾	-	¾-14	2	75.5	2.97	32.8	1.29	46.5	1.83	53.6	2.11	41	1.61	0.92	418
ML6DBP75F	ML6DBP75F292	ML6DBP75F242	ML6DBP75F503	¾	¾-14	-	2	75.5	2.97	32.8	1.29	46.5	1.83	53.6	2.11	41	1.61	0.90	409
ML8DBP100FBS	ML8DBP100FBS292	ML8DBP100FBS242	ML8DBP100FBS503	1	-	1-11	2	89.4	3.52	40.4	1.59	54.9	2.16	66.1	2.60	50	1.97	1.61	733
ML8DBP100F	ML8DBP100F292	ML8DBP100F242	ML8DBP100F503	1	1-11	-	2	86.4	3.4	40.4	1.59	54.9	2.16	63.1	2.48	50	1.97	1.54	700

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

Seal Kit and Tool for Servicing Sockets (Female)

Body Size		Seal Kit Part/Order Number (includes 5 sets)		Seal Kit Part/Order Number (includes 1 set)	
Tool Part/Order Number	FKM	EPDM	Kalrez 6375	Generic FFKM	
(in)					
1/4	ML2DBS93	2DBSG143	2DBSG292	2DBSG242	2DBSG503
1/2	ML4DBS93	4DBSG143	4DBSG292	4DBSG242	4DBSG503
3/4	ML6DBS93	6DBSG143	6DBSG292	6DBSG242	6DBSG503
1	ML8DBS93	8DBSG143	8DBSG292	8DBSG242	8DBSG503

Seal Kit for Servicing Plugs (Male)

Body Size		Seal Kit Part/Order Number (includes 5 sets)		Seal Kit Part/Order Number (includes 1 set)	
FKM	EPDM	Kalrez 6375	Generic FFKM		
(in)					
1/4	2DBPG143	2DBPG292	2DBPG242	2DBPG503	
1/2	4DBPG143	4DBPG292	4DBPG242	4DBPG503	
3/4	6DBPG143	6DBPG292	6DBPG242	6DBPG503	
1	8DBPG143	8DBPG292	8DBPG242	8DBPG503	

Color Coding Ring Option*

Body Size	ISO Size	Size	Socket/Female Ring Part/Order Number**				Plug/Male Ring Part/Order Number**				Tool Part/Order Number	Tool & Rings Kit Part/Order Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
			(in)	(mm)								
½	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications. Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions. The color coded rings are easy to install by using the referenced tools.

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

** Orders must be in multiples of 10 pcs.

*** The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.



Safe Breakaway Series

Fluid transfer & Hydraulic application



Danfoss' Safe Breakaway series is a coupling made for liquified gas transfer within railway, marine or truck transportation. In the event of accidental disconnection, the coupling will automatically and instantaneously close to prevent any leakage of hazardous chemicals or gases.

Product Features

- Dry disconnection function prevents loss of fluid
- Safety feature integrated to close flow path when vehicle is accidentally moving during fluid transfer
- Standard seal material: EPDM

Applications & Markets

- Fluid transfer (liquified gas)
- Railway, Marine or on highway transportation vehicles
- Standard body material: Stainless steel EN 1.4418

Physical characteristics

Body Size	Max. Operating Pressure		Nominal Flow Diameter	Plug part/order number	Socket part/order number	Tube size	Socket dimensions (Fig. 1)		Plug dimensions (Fig. 2)		Length connected
	(bar)	(psi)					A	B	A	B	
2	16	232	50	QV19782E0	QX19781E0	2	130.5	126	161.5	145	239
3	16	232	80	QV19792E0	QX19791E0	3	148	160	190	188.5	272

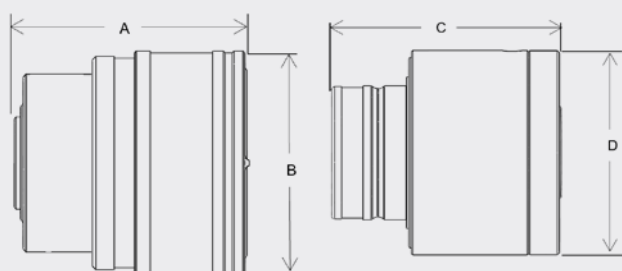
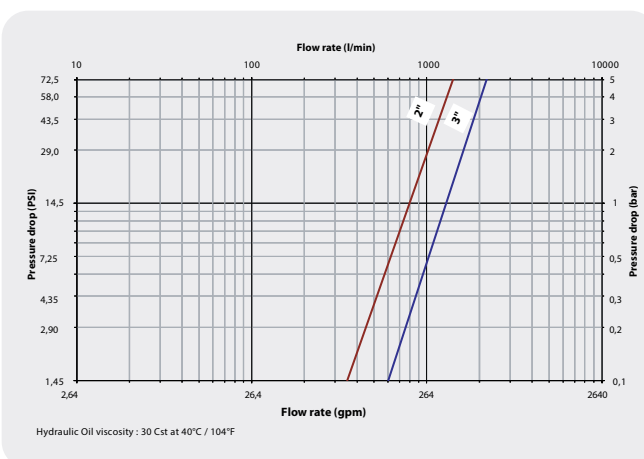


Figure 1: socket part

Figure 2: plug part

Flow Data



W36000 Series Thread-to-Connect

Fluid transfer & Hydraulic application



Danfoss Hansen W36000 Series is a screw-to-connect quick disconnect coupling. Due to its design and the materials used, the W36000 Series quick disconnect coupling has excellent resistance to mechanical and hydraulic applications where vibration is present. The inner components of sizes $\frac{3}{4}$ ", 1" & 1 $\frac{1}{4}$ " have a robust construction to withstand the harsh application needs. Additionally, the plug sleeve ensures protection of the sealing area upon disconnection.

Product Features

- Designed and manufactured in accordance with Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU
- Proprietary profile
- Thread-to-connect with double shut-off valving
- Can be connected against 50 bar (725 psi) residual pressure
- Optional dust caps and plugs PVC or aluminum)
- An alternative version can be offered with a safety feature which minimizes the risk of unscrewing in conditions of heavy vibration
- O-ring indication allows checking that connection is complete (thus guaranteeing full flow)
- Standard body material: Zinc trivalent plated steel
- Standard seal material: NBR

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Max. Residual Pressure during Connection		Rated Flow*	
		(bar)	(psi)	(bar)	(psi)	(L/min)	(gpm)
$\frac{1}{4}$	5.3	450	6525	50	725	12	3.17
$\frac{3}{8}$	7.3	450	6525	50	725	21	5.55
$\frac{1}{2}$	10.2	400** 250***	5,800** 3,625***	50	725	43	11.36
$\frac{3}{4}$	13.0	400	5,800	50	725	77	20.34
1	16.9	300	4,350	50	725	120	31.70
1 $\frac{1}{4}$	22.4	300	4,350	50	725	300	79.25

* Indicated values refer to a 1 bar / 14.5 psi pressure drop.

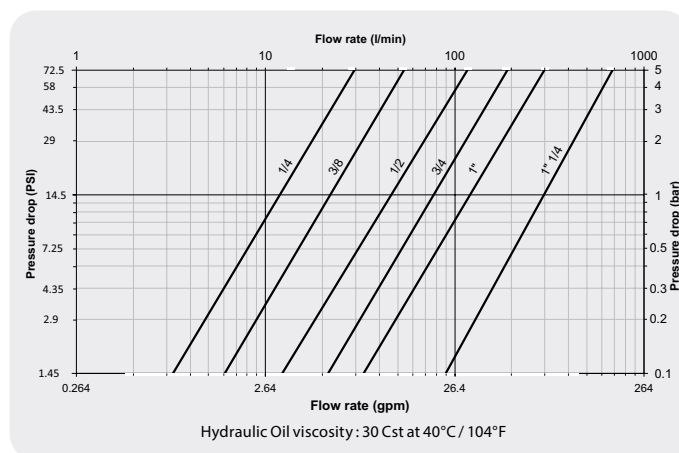
** Operating pressures apply to BSPP and NPT threads.

*** For ISO 8434-1 end connections.

Applications & Markets

- Construction
- Agriculture
- Forestry Machinery
- Snow-grooming Machines

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F

* For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

W36000 Series Thread-to-Connect

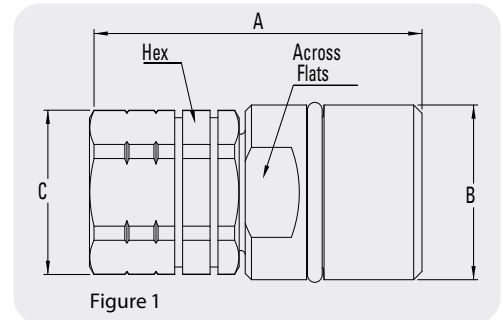


Figure 1

Sockets (Female) with Internal Thread

Part/Order Number* NBR	Body Size	Nominal Flow Diameter	Thread Size* (Female)		Fig.	Dimensions										Weight	
			NPT	BSPP		A	B	C	Across flats	Hex							
	(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(lbs)	(grams)
WA3601700	¼	5.3	-	¼-19	1	58	2.28	M24x2	0.94	24	0.94	22	0.87	22	0.87	0.26	117
WA3621725	¼	5.3	¼-18	-	1	58	2.28	M24x2	0.94	24	0.94	22	0.87	22	0.87	0.30	138
WA3602725BS	¾	7.3	-	¾-19	1	61	2.40	M28x2	1.10	24	0.94	24	0.94	22	0.87	0.36	163
WA3622725	¾	7.3	¼-18	-	1	61	2.40	M28x2	1.10	24	0.94	24	0.94	22	0.87	0.36	165
WA3602700	¾	7.3	-	¾-19	1	61	2.40	M28x2	1.10	24	0.94	24	0.94	22	0.87	0.34	156
WA3622737	¾	7.3	¾-18	-	1	61	2.40	M28x2	1.10	24	0.94	24	0.94	22	0.87	0.35	158
WA3603737BS	½	10.2	-	¾-19	1	72	2.84	M36x2	1.42	30	1.18	41(Hex)	1.61(Hex)	27	1.06	0.82	370
WA3623737	½	10.2	¾-18	-	1	72	2.84	M36x2	1.42	30	1.18	41(Hex)	1.61(Hex)	27	1.06	0.82	372
WA3603700	½	10.2	-	½-14	1	75	2.95	M36x2	1.42	30	1.18	41(Hex)	1.61(Hex)	27	1.06	0.79	360
WA3623750	½	10.2	½-14	-	1	75	2.95	M36x2	1.42	30	1.18	41(Hex)	1.61(Hex)	27	1.06	0.80	361
WA3604750BS	¾	13	-	½-14	1	80	3.15	M42x2	1.65	40	1.57	36	1.42	36	1.42	1.06	480
WA3624750	¾	13	½-14	-	1	80	3.15	M42x2	1.65	40	1.57	36	1.42	36	1.42	1.07	484
WA3604700	¾	13	-	¾-14	1	80	3.15	M42x2	1.65	40	1.57	36	1.42	36	1.42	1.03	466
WA3624775	¾	13	¾-14	-	1	80	3.15	M42x2	1.65	40	1.57	36	1.42	36	1.42	1.04	472
WA3605775BS	1	16.9	-	¾-14	1	96	3.78	M48x3	1.89	46	1.81	42	1.65	42	1.65	1.62	735
WA3625775	1	16.9	¾-14	-	1	96	3.78	M48x3	1.89	46	1.81	42	1.65	42	1.65	1.63	741
WA3605700	1	16.9	-	1-11	1	96	3.78	M48x3	1.89	46	1.81	42	1.65	42	1.65	1.51	684
WA36257100	1	16.9	1-11½	-	1	96	3.78	M48x3	1.89	46	1.81	42	1.65	42	1.65	1.53	694
WA3606700	1¼	22.4	-	1¼-11	1	126	4.96	M70x3	2.76	72	2.83	65	2.56	65	2.56	4.82	2,185
WA36267125	1¼	22.4	1¼-11½	-	1	126	4.96	M70x3	2.76	72	2.83	65	2.56	65	2.56	4.87	2,207
WA36067150BS	1¼	22.4	-	1½-11	1	126	4.96	M70x3	2.76	72	2.83	65	2.56	65	2.56	4.63	2,101
WA36267150	1¼	22.4	1½-11½	-	1	126	4.96	M70x3	2.76	72	2.83	65	2.56	65	2.56	4.68	2,121

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and K (Fig. 3) or O (Fig. 4) together.

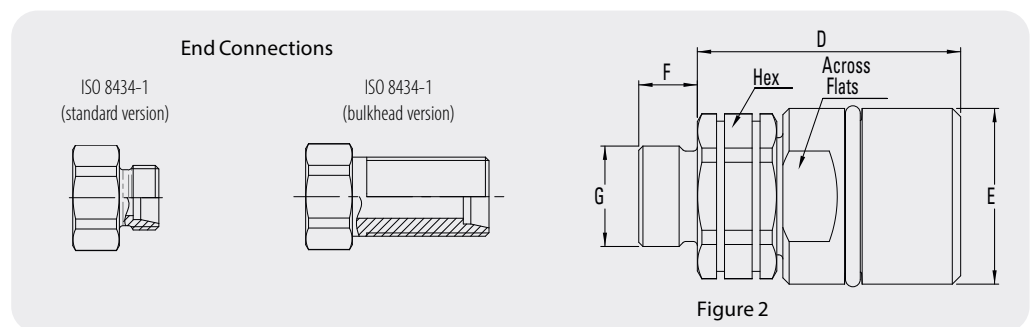


Figure 2

Sockets (Female) with External Thread

Part/Order Number	Body Size	Nominal Flow Diameter	Thread Size* (Male) ISO 8434-1**	Dimensions												Weight		
				Fig.	D	E		F		G		Across Flats		Hex				
	(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	lbs	grams	
WA3633708L	½	10.2	M14x1.5 - 8L	2	59	2.32	M36x2	1.42	10	0.39	M14x1.5	0.55	41 (Hex)	1.61 (Hex)	27	1.06	0.73	330
WA3633710L			M16x1.5 - 10L	2	58	2.28	M36x2	1.42	11	0.43	M16x1.5	0.63	41 (Hex)	1.61 (Hex)	27	1.06	0.72	328
WA3633712L			M18x1.5 - 12L	2	58	2.28	M36x2	1.42	11	0.43	M18x1.5	0.71	41 (Hex)	1.61 (Hex)	27	1.06	0.73	330
WA3633715L			M22x1.5 - 15L	2	57	2.24	M36x2	1.42	12	0.47	M22x1.5	0.87	41 (Hex)	1.61 (Hex)	27	1.06	0.77	350
WA3633715LBH			M22x1.5 - 15L Bulkhead	2	58	2.28	M36x2	1.42	38	1.50	M22x1.5	0.87	41 (Hex)	1.61 (Hex)	27	1.06	0.85	385

*Alternative end connections available upon request.

** Light L series = working pressure 250 bar/3625 psi max.

To obtain connected length of coupling add dimensions D (Fig. 2) and K (Fig. 3) or O (Fig. 4) together.

W36000 Series Thread-to-Connect

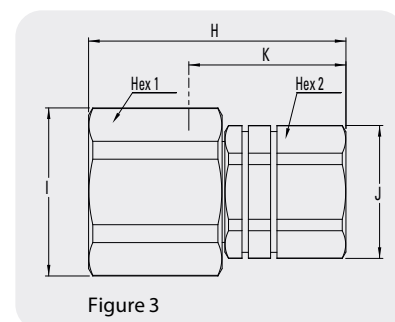


Figure 3

Plugs (Male) with Internal Thread

Part/Order Number NBR	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)		Fig.	Dimensions										Weight			
			NPT	BSP		H	I	J	K	Hex 1	Hex 2	Hex 1	Hex 2	Hex 1	Hex 2	lbs	grams		
WA3601400	¼	5.3	-	¼-19	3	55	2.17	32	1.26	24	0.94	31	1.22	29	1.14	22	0.87	0.41	184
WA3621425	¼	5.3	¼-18	-	3	55	2.17	32	1.26	24	0.94	31	1.22	29	1.14	22	0.87	0.33	150
WA3602425BS	¾	7.3	-	¾-19	3	58	2.28	35	1.38	24	0.94	32	1.26	32	1.26	22	0.87	0.36	164
WA3622425	¾	7.3	¾-18	-	3	58	2.28	35	1.38	24	0.94	32	1.26	32	1.26	22	0.87	0.37	166
WA3602400	¾	7.3	-	¾-19	3	58	2.28	35	1.38	24	0.94	32	1.26	32	1.26	22	0.87	0.35	158
WA3622437	¾	7.3	¾-18	-	3	58	2.28	35	1.38	24	0.94	32	1.26	32	1.26	22	0.87	0.35	160
WA3603437BS	½	10.2	-	½-19	3	64	2.52	45	1.77	30	1.18	37	1.46	41	1.61	27	1.06	0.61	276
WA3623437	½	10.2	½-18	-	3	64	2.52	45	1.77	30	1.18	37	1.46	41	1.61	27	1.06	0.61	278
WA3603400	½	10.2	-	½-14	3	66	2.60	45	1.77	30	1.18	40	1.57	41	1.61	27	1.06	0.60	271
WA3623450	½	10.2	½-14	-	3	66	2.60	45	1.77	30	1.18	40	1.57	41	1.61	27	1.06	0.60	273
WA3604450BS	¾	13.0	-	¾-14	3	77	3.03	50	1.97	40	1.57	47	1.85	46	1.81	36	1.42	1.01	456
WA3624450	¾	13.0	¾-14	-	3	77	3.03	50	1.97	40	1.57	47	1.85	46	1.81	36	1.42	1.01	460
WA3604400	¾	13.0	-	¾-14	3	77	3.03	50	1.97	40	1.57	47	1.85	46	1.81	36	1.42	0.97	442
WA3624475	¾	13.0	¾-14	-	3	77	3.03	50	1.97	40	1.57	47	1.85	46	1.81	36	1.42	0.99	448
WA3605475BS	1	16.9	-	1-14	3	92	3.62	60	2.36	46	1.81	57	2.24	55	2.17	42	1.65	1.77	805
WA3625475	1	16.9	1-14	-	3	92	3.62	60	2.36	46	1.81	57	2.24	55	2.17	42	1.65	1.79	811
WA3605400	1	16.9	-	1-11	3	92	3.62	60	2.36	46	1.81	57	2.24	55	2.17	42	1.65	1.66	751
WA36254100	1	16.9	1-11½	-	3	92	3.62	60	2.36	46	1.81	57	2.24	55	2.17	42	1.65	1.68	761
WA3606400	1¼	22.4	-	1¼-11	3	120	4.72	89	3.50	72	2.83	70	2.76	77	3.03	65	2.56	5.56	2,520
WA36264125	1¼	22.4	1¼-11½	-	3	120	4.72	89	3.50	72	2.83	70	2.76	77	3.03	65	2.56	5.60	2,542
WA36064150BS	1¼	22.4	-	1½-11	3	120	4.72	89	3.50	72	2.83	70	2.76	77	3.03	65	2.56	5.37	2,436
WA36264150	1¼	22.4	1½-11½	-	3	120	4.72	89	3.50	72	2.83	70	2.76	77	3.03	65	2.56	5.41	2,456

* Alternative end connections upon request.

To obtain connected length of coupling add dimensions K (Fig. 3) and A (Fig. 1) or D (Fig. 2) together.

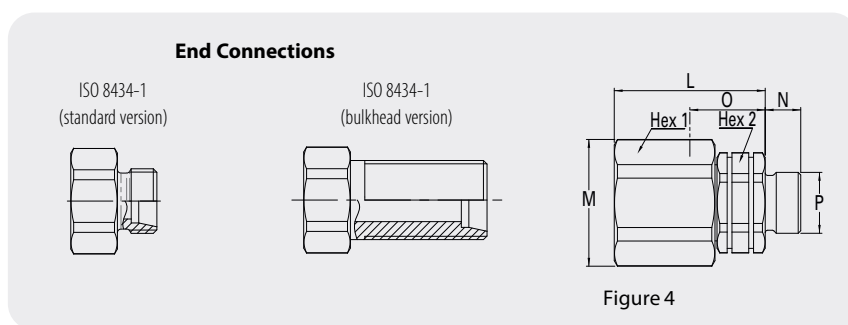


Figure 4

Plugs (Male) with External Thread

Part/Order Number	Body Size	Nominal Flow Diameter	Thread Size* (Male) ISO 8434-1**	Dimensions												Weight				
				Fig.	L	M	N	O	P	Hex 1		Hex 2		lbs	grams					
	(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
WA3633408L			M14x1.5 - 8L	4	49	1.93	45	1.77	10	0.39	36	1.42	M14x1.5	0.55	41	1.61	27	1.06	0.56	255
WA3633410L			M16x1.5 - 10L	4	49	1.93	45	1.77	11	0.43	36	1.42	M16x1.5	0.63	41	1.61	27	1.06	0.56	253
WA3633412L	½	10.2	M18x1.5 - 12L	4	49	1.93	45	1.77	11	0.43	36	1.42	M18x1.5	0.71	41	1.61	27	1.06	0.56	255
WA3633415L			M22x1.5 - 15L	4	49	1.93	45	1.77	12	0.47	36	1.42	M22x1.5	0.87	41	1.61	27	1.06	0.61	275
WA3633415LBH			M22x1.5 - 15L Bulkhead	4	49	1.93	45	1.77	38	1.50	36	1.42	M22x1.5	0.87	41	1.61	27	1.06	0.68	310

* Alternative end connections upon request.

** Light L series = working pressure 250 bar/3625 psi max.

To obtain connected length of coupling add dimensions O (Fig. 4) and A (Fig. 1) or D (Fig. 2) together.

W36000 Series Thread-to-Connect

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part/Order Number		Plug Dust Cap Part/Order Number	
	Anodized Aluminum	PVC	Anodized Aluminum	PVC
¼	WD3611700	WP3611700	WD3611400	WP3611400
⅜	WD3612700	WP3612700	WD3612400	WP3612400
½	WD3613700	WP3613700	WD3613400	WP3613400
¾	WD3614700	WP3614700	WD3614400	WP3614400
1	WD3615700	WP3615700	WD3615400	WP3615400

For installation instructions, please contact your Danfoss sales representative.



Metal Socket Dust Plug



Metal Plug Dust Cap



PVC Socket Dust Plug



PVC Plug Dust Cap

Seal Kit for Servicing Sockets (Female)

Body size (in)	Seal & Back-up Ring Kit* Part/Order Number	NBR seals & PTFE back-up rings
¼	WG3601700	10 seals + 10 back-up rings
⅜	WG3602700	10 seals + 10 back-up rings
½	WG3603700	10 seals + 10 back-up rings
¾	WG3604700	5 seals + 5 back-up rings
1	WG3605700	5 seals + 5 back-up rings
1½	WG3606700	1 seal + 1 back-up ring

* The valve seal is not included in our repair kits.

GA90090 Series

Fluid transfer & Hydraulic application



Danfoss' high pressure hydraulic coupling GA90090 was engineered to perform in applications that require the highest level of performance. Working pressure of up to 420 bar (6,000psi) in all sizes. One of the most demanding applications is the drill hammer used in construction.

EMEA region

Product Features

- Available in size 8, 12, and 16
- Available thread configurations: Metric, UN, and BSP
- Unique profile: not interchangeable
- Self-sealing features guarantee minimum air inclusion and loss of fluid
- Connection via adapter
- Detachable under pressure
- Long lifetime in dynamic applications
- Works in applications where higher pressures are needed
- Exceeds the requirements of ISC7241/1
- Standard model available in Zinc plated steel

Physical characteristics

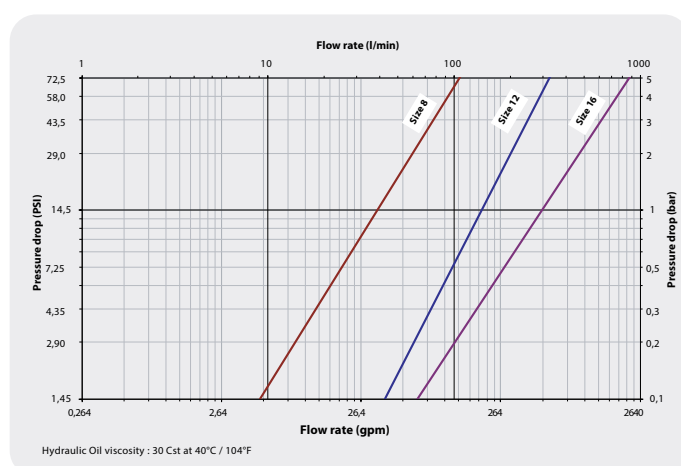
Body Size	Nominal Flow Diameter	Max. Operating Pressure		Rated Flow*	
Dash Size	(mm)	(bar)	(psi)	(L/min)	(gpm)
-8	9.81	400	5,800	40	10.56
-12	16.75	330	4,700	150	39.62
-16	21.18	330	4,700	200	52.83

*Indicated values refer to a 1 bar/14,5 psi pressure drop.

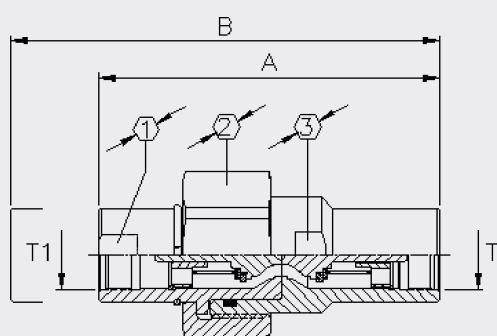
Applications & Markets

- High-pressure hydraulic systems and fluid transfer used in the construction, agriculture and forestry markets
- Dynamic hydraulic applications like the drilling hammer

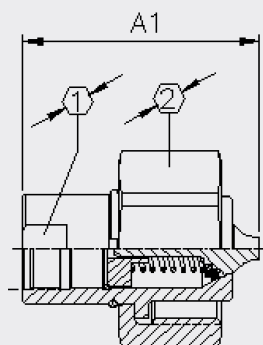
Flow Data



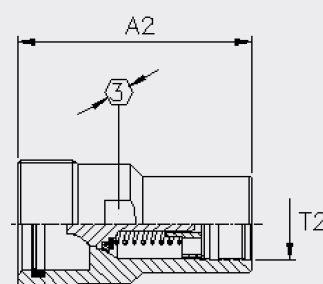
GA90090 Series



Connected Coupling



Male Half



Female Half

Metric Thread

Size	DN	Coupling	Thread	A	B	Hex 1	Hex 2	Hex 3
			(T1=T2)	(mm)	(mm)	(mm)	(mm)	(mm)
-8	12	GA90090-8	M22x1,5	89.1	105	27	41	27
-12	16	GA90090-12	M30x1,5	143.6	183	36	65	46
-16	20	GA90090-16	M38x1,5	163.7	196.7	50	75	55

Size	DN	Male Half	Female Half	A1	A2
				(mm)	(mm)
-8	12	GA90092-8	GA90091-8	45.7	59.4
-12	16	GA90092-12	GA90091-12	76.8	96.7
-16	20	GA90092-16	GA90091-16	81.7	115.0

UNF-Thread*

Size	DN	Coupling	Thread	A	B	Hex 1	Hex 2	Hex 3
			(T1=T2)	(mm)	(mm)	(mm)	(mm)	(mm)
-8	12	GA90762-8	7/8-14UNF-2B	93.1	109	27	41	27
-12	16	GA90762-12	1 3/8-12UNF-2B	163.7	196.7	36	65	46

Size	DN	Male Half	Female Half	A1	A2
				(mm)	(mm)
-8	12	GA90764-8	GA90763-8	47.7	61.4
-12	16	GA90764-12	GA90763-12	88.8	106.7

*Thread according to SAE J1926-1 (ISO 11926-1).

BSP-Thread

Size	DN	Coupling	Thread	A	B	Hex 1	Hex 2	Hex 3
			(T1=T2)	(mm)	(mm)	(mm)	(mm)	(mm)
-8	12	GA90767-8	G 1/2"-14	99.1	115	27	41	27
-12	16	GA90767-12-16	G 1"-11	158.8	188.7	36	65	46
-16	20	GA90767-16-20	G 1 1/4"-11	163.7	196.7	50	75	55

Size	DN	Male Half	Female Half	A1	A2
				(mm)	(mm)
-8	12	GA90769-8	GA90768-8	50.7	64.4
-12	16	GA90769-12-16	GA90768-12-16	84.4	104.3
-16	20	GA90769-16-20	GA90768-16-20	81.7	115.0

Dust Plugs and Dust Caps

Body Size	Plug Dust Plug Part/Order Number	Socket Dust Cap Part/Order Number
Dash size	Aluminum	Aluminum
-8	GA17006-8	GA17005-8
-12	GA17006-12	GA17005-12
-16	GA17006-16	GA17005-16

IP Series

Fluid transfer & Hydraulic application



Danfoss Hansen IP Series steel quick disconnect coupling is a screw-to-connect coupling for Subsea Oil & Gas applications. Due to the rugged construction of its unique design and special 1.4404 stainless steel material the coupling can withstand highest operating pressures up to 1379 bar and is suited for most corrosive environment in subsea.

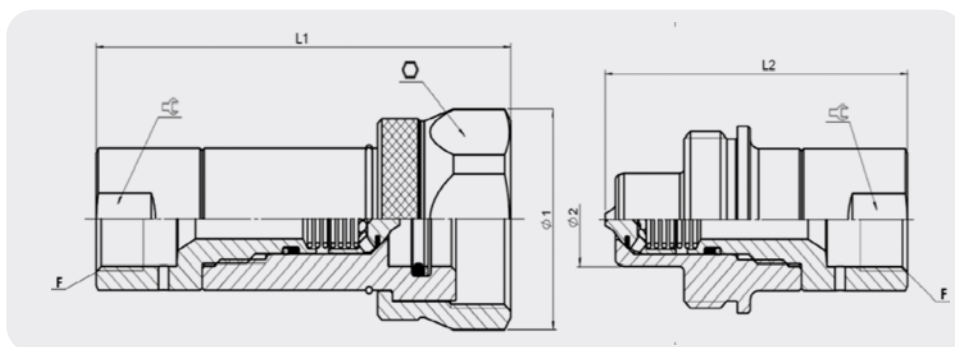
EMEA region

Product Features

- Standard body material: 316L / 1.4404 stainless steel corrosion resistant
- Standard seal material: HNBR, NBR on the valve
- Thread-to-connect with double shut-off valving
- Proprietary profile
- Can be connected under residual pressure
- Working temperature : -32°C / +150°C
- Optional dust caps and plugs (made of stainless steel)

Application

- Hydraulic, Testing of Wellheads in subsea Oil & Gas



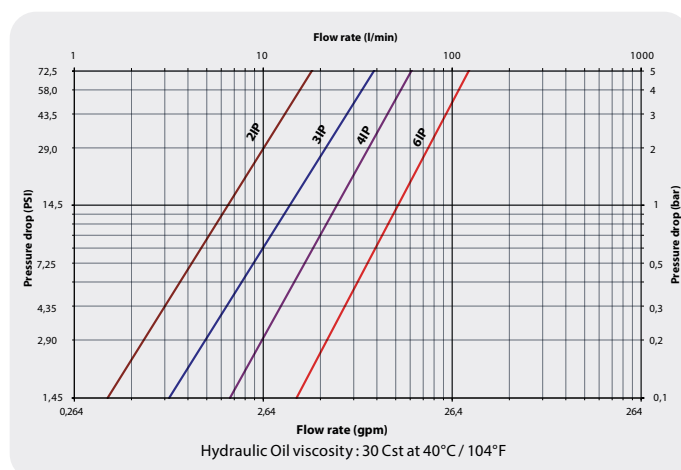
Physical characteristics

Body Size	Working Pressure		Nominal Flow Diameter	Plug part/ order number	Socket part/ order number	Thread Size (Female)	Tube Size	Socket dimensions				Plug dimensions			Length connected
	(bar)	(psi)						L1	Ø 1	Ø 2	Ø 3	L1	Ø 1	Ø 2	
			(mm)				(in)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1/4	1,379	20,000	2.8	2IPP25MP	2IPS25MP	7/16-20 UNF	1/4"	82	38	35	23	58	32	23	112
1/4	1,379	20,000	5.2	2IPP37MP	2IPS37MP	9/16-18 UNF	3/8"	82	38	35	23	58	32	23	112
3/8	1,034	15,000	8.1	3IPP56MP	3IPS56MP	13/16-16 UN	9/16"	96	45	41	27	71	38	27	138
1/2	965	14,000	11.1	4IPP75MP	4IPS75MP	3/4-14 NPSM	3/4"	109	55	50	35	81.4	50	35	154.1
3/4	689	10,000	16.5	6IPP100MP	6IPS100MP	1 3/8-12 UNF	1"	139.8	63	58	41	105.2	60	41	200.5

Dust Plugs and Dust Caps

Body Size	Waterproof dust cap for female	Waterproof dust cap for male
(in)	Stainless Steel	Stainless Steel
1/4	SDC2IP	XPDC2IP
3/8	SDC3IP	XPDC3IP
1/2	SDC4IP	XPDC4IP
3/4	SDC6IP	XPDC6IP

Flow Data



W6000 Series (Steel) Thread-to-Connect

Fluid transfer & Hydraulic application



Danfoss Gromelle W6000 Series steel quick disconnect coupling is a thread-to-connect with a rugged construction. It remains the series users refer to when it deals with severe hydraulic applications, such as construction and mining. The design and materials used give this quick disconnect coupling resistance to heavy mechanical loads. Most common examples are ram loads, hydraulic shocks and severe pulsating pressures.

Global region

Product Features

- Proprietary profile
- Thread-to-connect with double shut-off valving
- Optional dust caps and plugs (made of anodized aluminum)
- Can be connected under residual pressure up to 30 bar with standard seal, up to 150 bar with PU seal
- Standard body material: Zinc trivalent plated steel
- Standard seal material: NBR, FKM, EPDM

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*				Maximum Residual Pressure during Connection***		Rated Flow**		Fluid Loss ml-cc.
		Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1		(bar)	(psi)	(lpm)	(gpm)	
¼	5.7	1,100	15,950	1,100	15,950	30	435	11.6	3.06	1.1
⅜	7.6	750	10,875	750	10,875	30	435	16.7	4.41	1.9
½	10.3	750	10,875	750	10,875	30	435	25.5	6.74	2.8
¾	14.2	650	9,425	650	9,425	50	725	55	14.53	5.8
1	16.5	450	6,525	450	6,525	30	435	87	22.98	10.9
1¼	20.5	450	6,525	450	6,525	30	435	140	36.98	26.9
1½	25.8	300	4,350	38	550	30	435	208	54.95	37.5
2	34.7	300	4,350	28	405	30	435	357	94.30	81

* For pulsating pressures when disconnected apply a multiplier of 0.5.

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

*** When connecting under pressure, the socket nut thread must be lubricated.

European Pressure Equipment Directive

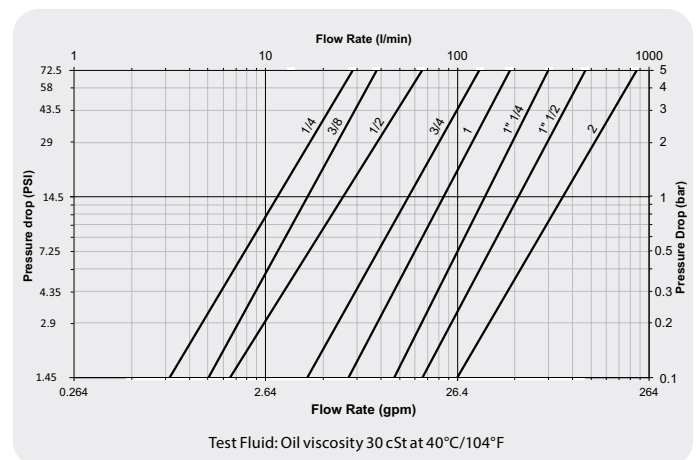
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Construction
- Oil & Gas
- Material Handling
- All industrial and severe applications
- Systems subject to heavy mechanical loads, high pressures

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/- 4°F +212°F
FKM	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

W6000 Series (Steel) Thread-to-Connect

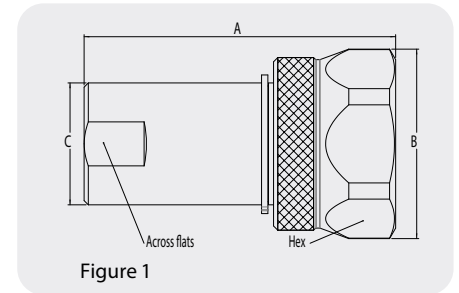


Figure 1

Sockets (Female)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)			Fig.	Dimensions								Weight			
NBR	FKM	EPDM			NPT	BSPP	Metric		A	B	C	Across flats		Hex						
			(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	lbs	grams	
WA0601700	WA06017V0	WA06017E0	¼	5.7	-	¼-19	-	1	53	2.09	35	1.38	21	0.83	19	0.75	32	1.26	0.32	144
WA0621700	WA06217V0	WA06217E0	¼	5.7	¼-18	-	-	1	53	2.09	35	1.38	21	0.83	19	0.75	32	1.26	0.32	144
WA0602700	WA06027V0	WA06027E0	⅜	7.6	-	⅜-19	-	1	65	2.56	38	1.50	25	0.98	23	0.90	35	1.38	0.48	217
WA0622700	WA06227V0	WA06227E0	⅜	7.6	⅜-18	-	-	1	65	2.56	38	1.50	25	0.98	23	0.90	35	1.38	0.48	217
WA0603700	WA06037V0	WA06037E0	½	10.3	-	½-14	-	1	74	2.91	45	1.77	29	1.14	27	1.06	41	1.61	0.71	320
WA0623700	WA06237V0	WA06237E0	½	10.3	½-14	-	-	1	74	2.91	45	1.77	29	1.14	27	1.06	41	1.61	0.71	320
WA0633700	WA06337V0	WA06337E0	½	10.3	-	-	M22x1.5	1	74	2.91	45	1.77	29	1.14	27	1.06	41	1.61	0.71	320
WA0604700	WA06047V0	WA06047E0	¾	14.2	-	¾-14	-	1	91	3.58	55	2.16	38	1.50	35	1.38	50	1.97	1.32	600
WA0624700	WA06247V0	WA06247E0	¾	14.2	¾-14	-	-	1	91	3.58	55	2.16	38	1.50	35	1.38	50	1.97	1.32	600
WA0605700	WA06057V0	WA06057E0	1	16.5	-	1-11	-	1	103	4.05	69	2.72	46	1.81	41	1.61	65	2.56	2.41	1,092
WA0625700	WA06257V0	WA06257E0	1	16.5	1-11½	-	-	1	103	4.05	69	2.72	46	1.81	41	1.61	65	2.56	2.41	1,092
WA0635700	WA06357V0	WA06357E0	1	16.5	-	-	M33x1.5	1	103	4.05	69	2.72	46	1.81	41	1.61	65	2.56	2.41	1,092
WA0606700	WA06067V0	WA06067E0	1¼	20.5	-	1¼-11	-	1	145	5.71	89	3.50	60	2.36	55	2.16	77	3.03	6.13	2,780
WA0626700	WA06267V0	WA06267E0	1¼	20.5	1¼-11½	-	-	1	145	5.71	89	3.50	60	2.36	55	2.16	77	3.03	6.13	2,780
WA0607700	WA06077V0	WA06077E0	1½	25.8	-	1½-11	-	1	173	6.81	100	3.94	67	2.64	63	2.48	88	3.46	9.26	4,200
WA0627700	WA06277V0	WA06277E0	1½	25.8	1½-11½	-	-	1	173	6.81	100	3.94	67	2.64	63	2.48	88	3.46	9.26	4,200
WA0609700	WA06097V0	WA06097E0	2	34.7	-	2-11	-	1	205	8.07	117	4.60	78	3.07	71	2.80	105	4.13	14.64	6,640
WA0629700	WA06297V0	WA06297E0	2	34.7	2-11½	-	-	1	205	8.07	117	4.60	78	3.07	71	2.80	105	4.13	14.64	6,640

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig.1) and G (Fig. 2) together.

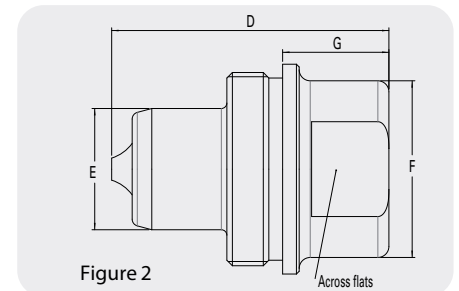


Figure 2

Plugs (Male)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)			Fig.	Dimensions								Weight			
NBR	FKM	EPDM			NPT	BSPP	Metric		D	E	F	G	Across flats		lbs	grams				
			(in)	(mm)					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
WA0601400	WA06014V0	WA06014E0	¼	5.7	-	¼-19	-	2	35	1.38	15	0.59	23	0.90	11.5	0.45	19	0.75	0.16	71
WA0621400	WA06214V0	WA06214E0	¼	5.7	¼-18	-	-	2	35	1.38	15	0.59	23	0.90	11.5	0.45	19	0.75	0.16	71
WA0602400	WA06024V0	WA06024E0	⅜	7.6	-	⅜-19	-	2	42	1.65	19	0.75	26	1.02	13	0.52	23	0.90	0.23	104
WA0622400	WA06224V0	WA06224E0	⅜	7.6	⅜-18	-	-	2	42	1.65	19	0.75	26	1.02	13	0.52	23	0.90	0.23	104
WA0603400	WA06034V0	WA06034E0	½	10.3	-	½-14	-	2	50	1.97	22	0.87	32	1.26	19.5	0.77	27	1.06	0.36	165
WA0623400	WA06234V0	WA06234E0	½	10.3	½-14	-	-	2	50	1.97	22	0.87	32	1.26	19.5	0.77	27	1.06	0.36	165
WA0633400	WA06334V0	WA06334E0	½	10.3	-	-	M22x1.5	2	50	1.97	22	0.87	32	1.26	19.5	0.77	27	1.06	0.36	165
WA0604400	WA06044V0	WA06044E0	¾	14.2	-	¾-14	-	2	63	2.48	29	1.14	42	1.65	26	1.02	35	1.38	0.84	382
WA0624400	WA06244V0	WA06244E0	¾	14.2	¾-14	-	-	2	63	2.48	29	1.14	42	1.65	26	1.02	35	1.38	0.84	382
WA0605400	WA06054V0	WA06054E0	1	16.5	-	1-11	-	2	71	2.80	36	1.42	48	1.89	29	1.14	41	1.61	1.29	585
WA0625400	WA06254V0	WA06254E0	1	16.5	1-11½	-	-	2	71	2.80	36	1.42	48	1.89	29	1.14	41	1.61	1.29	585
WA0635400	WA06354V0	WA06354E0	1	16.5	-	-	M33x1.5	2	71	2.80	36	1.42	48	1.89	29	1.14	41	1.61	1.29	585
WA0606400	WA06064V0	WA06064E0	1¼	20.5	-	1¼-11	-	2	97	3.82	50.9	2.00	60	2.36	37	1.45	55	2.16	3.22	1,460
WA0626400	WA06264V0	WA06264E0	1¼	20.5	1¼-11½	-	-	2	97	3.82	50.9	2.00	60	2.36	37	1.45	55	2.16	3.22	1,460
WA0607400	WA06074V0	WA06074E0	1½	25.8	-	1½-11	-	2	109	4.29	56.9	2.24	67	2.64	31	1.22	63	2.48	4.50	2,040
WA0627400	WA06274V0	WA06274E0	1½	25.8	1½-11½	-	-	2	109	4.29	56.9	2.24	67	2.64	31	1.22	63	2.48	4.50	2,040
WA0609400	WA06094V0	WA06094E0	2	34.7	-	2-11	-	2	129	5.08	69.4	2.73	78	3.07	33	1.32	71	2.80	7.05	3,200
WA0629400	WA06294V0	WA06294E0	2	34.7	2-11½	-	-	2	129	5.08	69.4	2.73	78	3.07	33	1.32	71	2.80	7.05	3,200

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig.1) and G (Fig. 2) together.

W6000 Series (Steel) Thread-to-Connect

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part/Order Number	Plug Dust Cap Part/Order Number
(in)	Anodized Aluminum	Anodized Aluminum
¼	WD0611700	WD0611400
⅜	WD0612700	WD0612400
½	WD0613700	WD0613400
¾	WD0614700	WD0614400
1	WD0615700	WD0615400
1¼	WD0616700	WD0616400
1½	WD0617700	WD0617400
2	WD0619700	WD0619400

Seal Kit for Servicing Sockets (Female)

Body Size	Seal & Back-up Ring Kit*		
(in)	NBR seals & PTFE back-up rings	FKM seals & PTFE back-up rings	Qty
¼	WG0601700	WG06017V0	50 O-rings + 50 Backup rings
⅜	WG0602700	WG06027V0	50 O-rings + 50 Backup rings
½	WG0603700	WG06037V0	50 O-rings + 50 Backup rings
¾	WG0604700	WG06047V0	50 O-rings + 50 Backup rings
1	WG0605700	WG06057V0	50 O-rings + 50 Backup rings
1¼	WG0606700	WG06067V0	15 O-rings + 15 Backup rings
1½	WG0607700	WG06077V0	15 O-rings + 15 Backup rings
2	WG0609700	WG06097V0	15 O-rings + 15 Backup rings

*The valve seal is not included in our repair kits.

EPDM seals (-40°C/+150°C) are also available but kit part number doesn't exist.

Please ask our technical support in case you need this compound.

W6000 Series (Stainless Steel) Thread-to-Connect

Fluid transfer & Hydraulic application



Danfoss Gromelle W6000 Series stainless steel quick disconnect coupling is a thread-to-connect with a rugged construction. This quick disconnect coupling utilizes 1.4418 grade stainless steel, which guarantees the same mechanical resistance as the steel version while offering excellent resistance in corrosive environments. It remains the coupling of choice in offshore oil & gas applications but also covers a wide range of alternative hydraulic applications.

Global region

Product Features

- Proprietary profile
- Thread-to-connect with double shut-off valving
- Resistance to heavy mechanical loads (hydraulic shocks, severe pulsating pressures, etc.).
- Optional dust caps and plugs (made of anodized aluminum)
- Can be connected under residual pressure
- Standard seal material: FKM, EPDM
- Standard body material: Stainless steel 1.4418 (1.4404 AISI 316L stainless steel available on request at lower operating pressures). Please contact Danfoss technical support for further information

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*				Maximum Residual Pressure during Connection***		Rated Flow**		Fluid Loss ml-cc.
		Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1		(bar)	(psi)	(lpm)	(gpm)	
1/4	5.7	1,100	15,950	1,100	15,950	30	435	11.6	3.06	1.1
3/8	7.6	750	10,875	750	10,875	30	435	16.7	4.41	1.9
1/2	10.3	750	10,875	750	10,875	30	435	25.5	6.74	2.8
3/4	14.2	650	9,425	650	9,425	50	725	55	14.53	5.8
1	16.5	450	6,525	450	6,525	30	435	87	22.98	10.9
1 1/4	20.5	450	6,525	450	6,525	30	435	140	36.98	26.9
1 1/2	25.8	300	4,350	38	550	30	435	208	54.95	37.5
2	34.7	300	4,350	28	405	30	435	357	94.30	81.0

* For pulsating pressures when disconnected apply a multiplier of 0.5.

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

*** When connecting under pressure, the socket nut thread must be lubricated.

European Pressure Equipment Directive

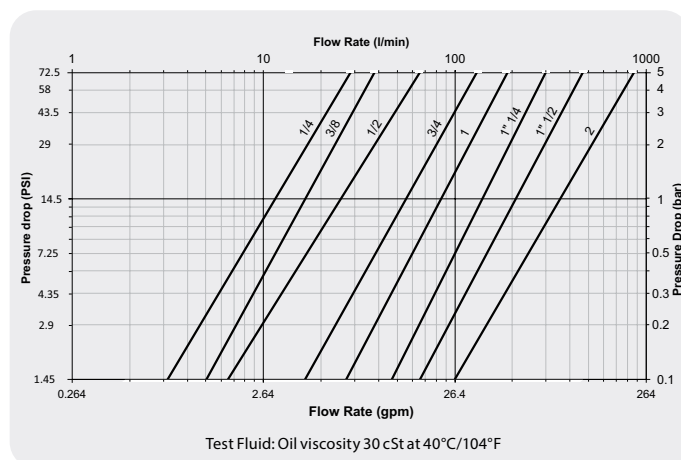
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Construction
- Oil & Gas
- Material Handling
- All industrial and severe applications
- Systems subject to heavy mechanical loads, high pressures

Flow Data



Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
FKM	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

W6000 Series (Stainless Steel) Thread-to-Connect

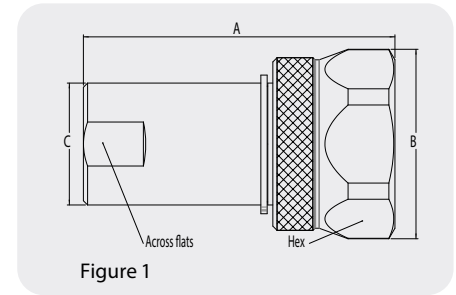


Figure 1

Sockets (Female)

Part/Order Number*		Body Size	Nominal Flow Diameter	Thread Size** (Female)		Fig.	Dimensions								Weight			
FKM	EPDM			NPT	BSPP		A	B	C	Across flats	Hex							
		(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	lbs	grams	
WV06017V0	WV06017E0	¼	5.7	-	¼-19	1	53	2.09	35	1.38	21	0.83	19	0.75	32	1.26	0.32	144
WV06217V0	WV06217E0	¼	5.7	¼-18	-	1	53	2.09	35	1.38	21	0.83	19	0.75	32	1.26	0.32	144
WV06027V0	WV06027E0	⅜	7.6	-	⅜-19	1	65	2.56	38	1.50	25	0.98	23	0.90	35	1.38	0.48	217
WV06227V0	WV06227E0	⅜	7.6	⅜-18	-	1	65	2.56	38	1.50	25	0.98	23	0.90	35	1.38	0.48	217
WV06037V0	WV06037E0	½	10.3	-	½-14	1	74	2.91	45	1.77	29	1.14	27	1.06	41	1.61	0.71	320
WV06237V0	WV06237E0	½	10.3	½-14	-	1	74	2.91	45	1.77	29	1.14	27	1.06	41	1.61	0.71	320
WV06047V0	WV06047E0	¾	14.2	-	¾-14	1	91	3.58	55	2.16	38	1.50	35	1.38	50	1.97	1.32	600
WV06247V0	WV06247E0	¾	14.2	¾-14	-	1	91	3.58	55	2.16	38	1.50	35	1.38	50	1.97	1.32	600
WV06057V0	WV06057E0	1	16.5	-	1-11	1	103	4.05	69	2.72	46	1.81	41	1.61	65	2.56	2.41	1,092
WV06257V0	WV06257E0	1	16.5	1-11½	-	1	103	4.05	69	2.72	46	1.81	41	1.61	65	2.56	2.41	1,092
WV06067V0	WV06067E0	1¼	20.5	-	1¼-11	1	145	5.71	89	3.50	60	2.36	55	2.16	77	3.03	6.13	2,780
WV06267V0	WV06267E0	1¼	20.5	1¼-11½	-	1	145	5.71	89	3.50	60	2.36	55	2.16	77	3.03	6.13	2,780
WV06077V0	WV06077E0	1½	25.8	-	1½-11	1	173	6.81	100	3.94	67	2.64	63	2.48	88	3.46	9.26	4,200
WV06277V0	WV06277E0	1½	25.8	1½-11½	-	1	173	6.81	100	3.94	67	2.64	63	2.48	88	3.46	9.26	4,200
WV06097V0	WV06097E0	2	34.7	-	2-11	1	205	8.07	117	4.60	78	3.07	71	2.80	105	4.13	14.64	6,640
WV06297V0	WV06297E0	2	34.7	2-11½	-	1	205	8.07	117	4.60	78	3.07	71	2.80	105	4.13	14.64	6,640

* 1.4404 AISI 316L stainless steel available on request. Please contact Danfoss technical support for further information.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig.1) and G (Fig. 2) together.

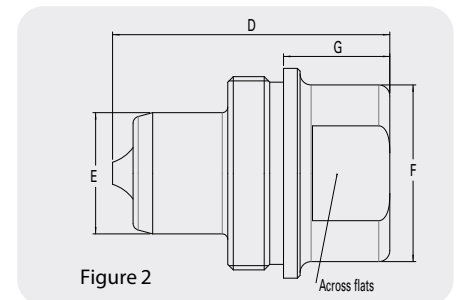


Figure 2

Plugs (Male)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)		Fig.	Dimensions								Weight			
FKM	EPDM			NPT	BSPP		D	E	F	G	Across flats							
		(in)	(mm)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	lbs	grams	
WV06014V0	WV06014E0	¼	5.7	-	¼-19	2	35	1.38	15	0.59	23	0.90	11.5	0.45	19	0.75	0.16	71
WV06214V0	WV06214E0	¼	5.7	¼-18	-	2	35	1.38	15	0.59	23	0.90	11.5	0.45	19	0.75	0.16	71
WV06024V0	WV06024E0	⅜	7.6	-	⅜-19	2	42	1.65	19	0.75	26	1.02	13	0.52	23	0.90	0.23	104
WV06224V0	WV06224E0	⅜	7.6	⅜-18	-	2	42	1.65	19	0.75	26	1.02	13	0.52	23	0.90	0.23	104
WV06034V0	WV06034E0	½	10.3	-	½-14	2	50	1.97	22	0.87	32	1.26	19.5	0.77	27	1.06	0.36	165
WV06234V0	WV06234E0	½	10.3	½-14	-	2	50	1.97	22	0.87	32	1.26	19.5	0.77	27	1.06	0.36	165
WV06044V0	WV06044E0	¾	14.2	-	¾-14	2	63	2.48	29	1.14	42	1.65	26	1.02	35	1.38	0.84	382
WV06244V0	WV06244E0	¾	14.2	¾-14	-	2	63	2.48	29	1.14	42	1.65	26	1.02	35	1.38	0.84	382
WV06054V0	WV06054E0	1	16.5	-	1-11	2	71	2.80	36	1.42	48	1.89	29	1.14	41	1.61	1.29	585
WV06254V0	WV06254E0	1	16.5	1-11½	-	2	71	2.80	36	1.42	48	1.89	29	1.14	41	1.61	1.29	585
WV06064V0	WV06064E0	1¼	20.5	-	1¼-11	2	97	3.82	50.9	2.00	60	2.36	37	1.45	55	2.16	3.22	1,460
WV06264V0	WV06264E0	1¼	20.5	1¼-11½	-	2	97	3.82	50.9	2.00	60	2.36	37	1.45	55	2.16	3.22	1,460
WV06074V0	WV06074E0	1½	25.8	-	1½-11	2	109	4.29	56.9	2.24	67	2.64	31	1.22	63	2.48	4.50	2,040
WV06274V0	WV06274E0	1½	25.8	1½-11½	-	2	109	4.29	56.9	2.24	67	2.64	31	1.22	63	2.48	4.50	2,040
WV06094V0	WV06094E0	2	34.7	-	2-11	2	129	5.08	69.4	2.73	78	3.07	33.5	1.32	71	2.80	7.05	3,200
WV06294V0	WV06294E0	2	34.7	2-11½	-	2	129	5.08	69.4	2.73	78	3.07	33.5	1.32	71	2.80	7.05	3,200

* 1.4404 AISI 316L stainless steel available on request. Please contact Danfoss technical support for further information.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig.1) and G (Fig. 2) together.

W6000 Series (Stainless Steel) Thread-to-Connect

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part/Order Number	Plug Dust Cap Part/Order Number
(in)	Anodized Aluminum	Anodized Aluminum
¼	WD0611700	WD0611400
⅜	WD0612700	WD0612400
½	WD0613700	WD0613400
¾	WD0614700	WD0614400
1	WD0615700	WD0615400
1¼	WD0616700	WD0616400
1½	WD0617700	WD0617400

Seal Kit for Servicing Sockets (Female)

Body Size	Seal & Back-up Ring Kit*		
(in)	NBR seals & PTFE back-up rings	FKM seals & PTFE back-up rings	Qty
¼	WG0601700	WG06017V0	50 O-rings + 50 Backup rings
⅜	WG0602700	WG06027V0	50 O-rings + 50 Backup rings
½	WG0603700	WG06037V0	50 O-rings + 50 Backup rings
¾	WG0604700	WG06047V0	50 O-rings + 50 Backup rings
1	WG0605700	WG06057V0	50 O-rings + 50 Backup rings
1¼	WG0606700	WG06067V0	15 O-rings + 15 Backup rings
1½	WG0607700	WG06077V0	15 O-rings + 15 Backup rings
2	WG0609700	WG06097V0	15 O-rings + 15 Backup rings

*The valve seal is not included in our repair kits.

EPDM seals (-40°C/+150°C) are also available but kit part number doesn't exist.
Please ask our technical support in case you need this compound.

5100 Series Thread-to-Connect

Fluid transfer & Hydraulic application



Danfoss Hansen 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. The 5100 Series is not rated for continuous hydraulic impulse applications. For hydraulic impulse applications, refer to the FD86 and FD96 Series thread to connect product lines.

Global region

Product Features

- 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
- Standard seal material: Nitrile (NBR)
- Standard body material: Brass body with high resistance carbon steel with zinc trivalent plated valving components, hex and wing nuts

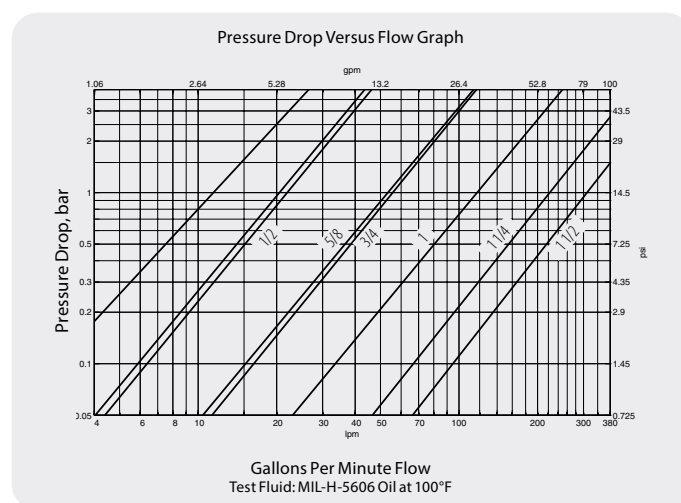
Physical characteristics

Body Dash Size	Body Interface Size	Max. Operating Pressure Connected		Max. Operating Pressure Disconnected Plug/Male Half S2 and S4		Max. Operating Pressure Disconnected Socket/Female Half S5		Vacuum	Rated Flow		Air Inclusion	Fluid Loss
(in)	(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc. max.	cc. max.
¼	¼	207	3,000	207	3,000	207	3,000	28	15	4	0.03	0.01
⅜	⅜	207	3,000	207	3,000	207	3,000	28	26	7	0.05	0.06
½	½	207	3,000	207	3,000	207	3,000	28	26	7	0.05	0.10
⅝	¾	207	3,000	207	3,000	207	3,000	28	68	18	0.14	0.10
¾	¾	207	3,000	207	3,000	207	3,000	28	68	18	0.34	0.26
1	1	207	3,000	207	3,000	207	3,000	28	151	40	0.50	0.35
1¼	1¼	190	2,750	172	2,500	190	2,750	28	284	75	0.68	0.70
1½	1½	172	2,500	172	2,500	138	2,000	28	379	100	0.60	0.94

Applications & Markets

- Hydraulics and Fluid Transfer
- On-highway Hydraulic Wet Lines
- Dump and Refuse Vehicles
- Bulk Liquid Transfer

Flow Data



5100 Series Thread-to-Connect

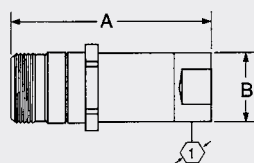


Figure 1

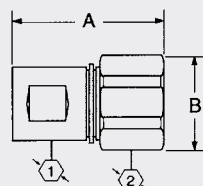


Figure 2

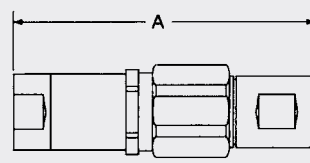
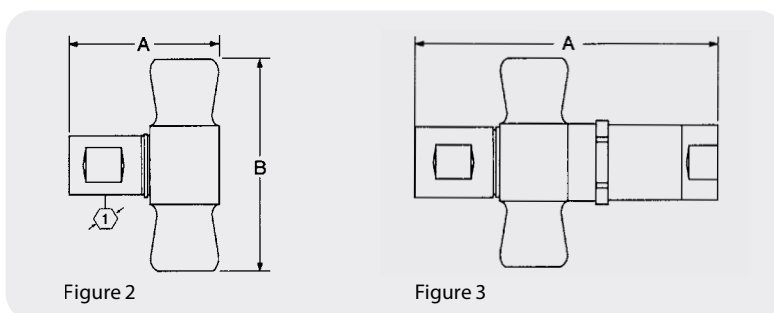


Figure 3

Dimensions (Female NPT, Valved without Flange)

Part/Order Number NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions							
							A		B		Hex ①		Hex ②	
							(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
5100-S2-4B	Plug/Male	¼	⅛	⅛-27	Female NPT	1	47.8	1.88	22.9	0.90	17.5	0.69	-	-
5110-S5-4B	Socket/Female	¼	⅛	⅛-27	Female NPT	2	53.3	2.10	33.5	1.32	14.2	0.56	30.2	1.19
5111-4B	Complete	¼	⅛	⅛-27	Female NPT	3	81.3	3.20	-	-	-	-	-	-
5100-S2-6B	Plug/Male	⅜	¼	¼-18	Female NPT	1	65.5	2.58	26.7	1.05	23.9	0.94	-	-
5110-S5-6B	Socket/Female	⅜	¼	¼-18	Female NPT	2	61.0	2.40	38.9	1.53	19.3	0.76	35.1	1.38
5111-6B	Complete	⅜	¼	¼-18	Female NPT	3	104.4	4.11	-	-	-	-	-	-
5100-S2-8B	Plug/Male	½	⅜	⅜-18	Female NPT	1	65.5	2.58	26.7	1.05	23.9	0.94	-	-
5110-S5-8B	Socket/Female	½	⅜	⅜-18	Female NPT	2	61.0	2.40	38.9	1.53	19.3	0.76	35.1	1.38
5111-8B	Complete	½	⅜	⅜-18	Female NPT	3	104.4	4.11	-	-	-	-	-	-
5100-S2-10B	Plug/Male	⅝	½	½-14	Female NPT	1	79.0	3.11	35.1	1.38	30.2	1.19	-	-
5110-S5-10B	Socket/Female	⅝	½	½-14	Female NPT	2	78.0	3.07	50.3	1.98	29.5	1.16	44.5	1.75
5111-10B	Complete	⅝	½	½-14	Female NPT	3	132.3	5.21	-	-	-	-	-	-
5100-S2-12B	Plug/Male	¾	¾	¾-14	Female NPT	1	79.0	3.11	35.1	1.38	30.2	1.19	-	-
5110-S5-12B	Socket/Female	¾	¾	¾-14	Female NPT	2	78.0	3.07	50.3	1.98	29.5	1.16	44.5	1.75
5111-12B	Complete	¾	¾	¾-14	Female NPT	3	132.3	5.21	-	-	-	-	-	-
5100-S2-16B	Plug/Male	1	1	1-11½	Female NPT	1	90.2	3.55	44.2	1.74	39.6	1.56	-	-
5110-S5-16B	Socket/Female	1	1	1-11½	Female NPT	2	93.5	3.68	61.2	2.41	36.6	1.44	53.8	2.12
5111-16B	Complete	1	1	1-11½	Female NPT	3	151.9	5.98	-	-	-	-	-	-
5100-S2-20B	Plug/Male	1¼	1¼	1¼ - 11½	Female NPT	1	94.2	3.71	52.8	2.08	47.8	1.88	-	-
5110-S5-20B	Socket/Female	1¼	1¼	1¼ - 11½	Female NPT	2	101.6	4.00	58.7	2.31	45.2	1.78	63.5	2.50
5111-20B	Complete	1¼	1¼	1¼ - 11½	Female NPT	3	160.3	6.31	-	-	-	-	-	-
5100-S2-24B	Plug/Male	1½	1½	1½ - 11½	Female NPT	1	104.6	4.12	62.5	2.46	55.6	2.19	55.6	2.19
5110-S5-24B	Socket/Female	1½	1½	1½ - 11½	Female NPT	2	104.1	4.10	78.7	3.10	50.8	2.00	-	-
5111-24B	Complete	1½	1½	1½ - 11½	Female NPT	3	165.6	6.52	-	-	-	-	-	-

5100 Series Thread-to-Connect



Dimensions (Female NPT, Valved WITH Wing Nut Less Flange)

Part/Order Number NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex ①	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
5100-S5-4B	Socket/Female	¼	⅛	⅛-27	Female NPT	6	53.3	2.10	77.0	3.03	14.2	0.56
5101-4B	Complete	¼	⅛	⅛-27	Female NPT	7	81.3	3.20	-	-	-	-
5100-S5-6B	Socket/Female	⅜	¼	¼-18	Female NPT	6	61.0	2.40	87.4	3.44	19.3	0.76
5101-6B	Complete	⅜	¼	¼-18	Female NPT	7	104.4	4.11	-	-	-	-
5100-S5-8B	Socket/Female	½	⅜	⅜-18	Female NPT	6	61.0	2.40	87.4	3.44	19.3	0.76
5101-8B	Complete	½	⅜	⅜-18	Female NPT	7	104.4	4.11	-	-	-	-
5100-S5-10B	Socket/Female	⅝	½	½-14	Female NPT	6	78.0	3.07	104.9	4.13	29.5	1.16
5101-10B	Complete	⅝	½	½-14	Female NPT	7	132.3	5.21	-	-	-	-
5100-S5-12B	Socket/Female	¾	¾	¾-14	Female NPT	6	78.0	3.07	104.9	4.13	29.5	1.16
5101-12B	Complete	¾	¾	¾-14	Female NPT	7	132.3	5.21	-	-	-	-
5100-S5-16B	Socket/Female	1	1	1-11½	Female NPT	6	93.5	3.68	111.3	4.38	36.6	1.44
5101-16B	Complete	1	1	1-11½	Female NPT	7	151.9	5.98	-	-	-	-
5100-S5-20B	Socket/Female	1¼	1¼	1¼ - 11½	Female Pipe	6	101.6	4.00	133.9	5.27	45.2	1.78
5101-20B	Complete	1¼	1¼	1¼ - 11½	Female NPT	7	160.3	6.31	-	-	-	-
5100-S5-24B	Socket/Female	1½	1½	1½ - 11½	Female NPT	6	104.1	4.10	136.7	5.38	50.8	2.00
5101-24B	Complete	1½	1½	1½ - 11½	Female NPT	7	165.6	6.52	-	-	-	-

5100 Series Thread-to-Connect

Dust Caps and Dust Plugs

Part/Order Number Dust Cap with Chain	Dust Plug with Chain	Body Size
WD3611700	WD3611700	¼
WD3612700	WD3612700	¾ & ½
WD3613700	WD3613700	¾ & ¾
WD3614700	WD3614700	1
WD3614700	WD3614700	1¼
WD3615700	WD3615700	1½

Dust Cap with Chain*



Dust Plug with Chain*

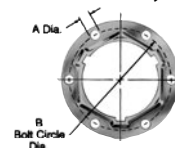


6-Bolt Flange Assembly

Part/Order Number 6-Bolt Flange Assembly	Body Size	Dimensions			
		A		B	
		(mm)	(in)	(mm)	(in)
150-22-5	¼	5.11	0.201	33.6	1.44
150-22-8	¾ & ½	5.11	0.201	42.9	1.69
150-22-12	¾ & ¾	5.11	0.201	53.8	2.12
150-22-16	1	5.11	0.201	60.5	2.38
150-22-20	1¼	5.11	0.201	66.5	2.62
5100-22-245	1½	5.11	0.201	82.6	3.25

*To order caps and plugs without chain, order cap by part number 5100-32-(size) and plug by part number 5100-41-(size).

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

6 Bolt Flange**
Assembly

FD85 Series Thread-to-Connect

Fluid transfer & Hydraulic application



The Danfoss Hansen FD85 Series is a thread to connect coupling most commonly used in Oil and Gas applications, but can also be found on demanding applications on both mobile and stationary equipment where operating pressures of 5,000 psi are present.

Global region

Product Features

- Thread to connect feature allows for use in high vibration and impulse applications
- Standard body material: Zinc trivalent plated carbon steel. Stainless steel construction available upon request
- Connect under pressure capability up to 5,000 psi (345 bar)
- Standard seal material: Nitrile (NBR), FKM seals are available upon request
- Wing nut and hex flat design allows for easy connection and disconnection
- 3/4" design is offered in a hex nut design
- Female NPTF and BSPP ends available

Physical characteristics

Body Size	Maximum Operating Pressure						Minimum Burst Pressure						Rated Flow	Fluid Loss	Air Inclu-	
			Plug /		Socket /				Plug /		Socket /					
	Connected		Male Half		Female Half		Connected		Male Half		Female Half					
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	L/min	(gpm)	ml-cc.	ml-cc.
¾	345	5,000	345	5,000	345	5,000	1,380	20,000	1,380	20,000	1,380	20,000	100	26.4	10	10
1	345	5,000	345	5,000	345	5,000	1,380	20,000	1,380	20,000	1,380	20,000	189	50	20	26
1¼	345	5,000	345	5,000	345	5,000	1,035	15,000	1,035	15,000	1,035	15,000	288	76	20	40
1½	345	5,000	345	5,000	345	5,000	1,035	15,000	1,035	15,000	1,035	15,000	379	100	83	85
2	345	5,000	345	5,000	345	5,000	1,035	15,000	1,035	15,000	1,035	15,000	757	200	181	240

Applications & Markets

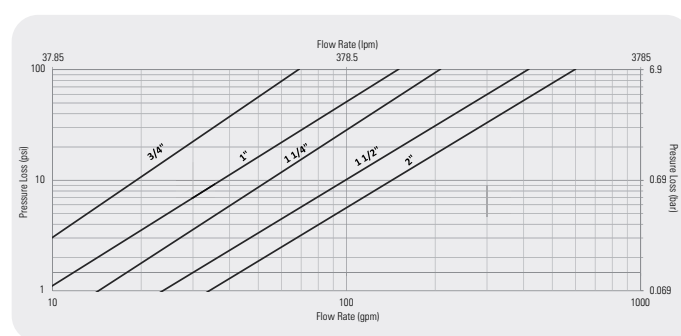
- Oilfields
- Offshore Drilling
- Construction
- Oil and Gas

Lloyd's Register Certification

The FD85 Series carries a Lloyd's Registry Certificate for fire conditions outlined in API 16D and EUB Directive 36. These parts meet the requirements that couplings shall be capable of maintaining pressure when exposed to a 700°C (1,300°F) temperature for a five-minute period in connected state.

Certification only applies to those assemblies where both mating parts socket/female and plug/male are Danfoss FD85 Series thread to connect couplings.

Flow Data



FD85 Series Thread-to-Connect

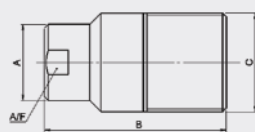


Figure 1

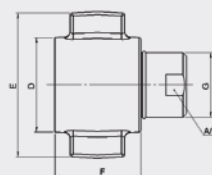


Figure 2

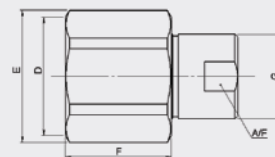


Figure 3

Plugs (Male)

Part/Order Number		Thread Size (Female)		Dimensions								Weight		
NBR	Body Size	NPT	BSPP	Fig.	A	B	C	A/F						
	(in)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
FD85-1001-12-12	¾	¾-14	–	1	35.2	1.39	83.1	3.27	44.3	1.74	33	1 ½	1.162	480
FD85-1017-12-12	¾	–	G ¾-14	1	35.2	1.39	83.1	3.27	44.3	1.74	33	1 ½	1.162	480
FD85-1001-16-16	1	1-11 ½	–	1	45	1.77	106	4.17	57.1	2.25	41	1 ¾	2.921	1,120
FD85-1017-16-16	1	–	G 1 - 11	1	45	1.77	106	4.17	57.1	2.25	41	1 ¾	2.974	1,120
FD85-1001-20-20	1¼	1¼-11	–	1	54.5	2.15	136.4	5.37	66.6	2.62	50	2	5.633	1,875
FD85-1017-20-20	1¼	–	G 1 ¼ - 11	1	54.5	2.15	136.4	5.37	66.6	2.62	50	2	5.633	1,875
FD85-1001-24-24	1½	1 ½ -11 ½	–	1	63.5	2.5	152.2	5.99	82.55	3.25	60	2 ¾	7.721	3,150
FD85-1017-24-24	1½	–	G 1 ½ -11	1	63.5	2.5	152.2	5.99	82.55	3.25	60	2 ¾	7.721	3,150
FD85-1001-32-32	2	2- 11 ½	–	1	82.5	3.25	179.2	7	101.6	4	76	3	15.046	5,635
FD85-1017-32-32	2	–	G 2 - 11	1	82.5	3.25	179.2	7	101.6	4	76	3	15.046	5,635

Sockets (Female)

Part/Order Number		Thread Size (Female)			Dimensions								Weight			
NBR	Body Size	NPT	BSPP	Fig.	D		E		F		G		A/F			
	(in)				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
FD85-1003-12-12	¾	¾-14	–	3	49.2	1.94	55	2.17	44.3	1.74	35.2	1.39	33	1 ½	1.162	527
FD85-1019-12-12	¾	–	G ¾-14	3	49.2	1.94	55	2.17	44.3	1.74	35.2	1.39	33	1 ½	1.162	527
FD85-1003-16-16	1	1-11 ½	–	2	68	2.68	108	4.25	56	2.2	45	1.77	41	1 ⅝	2.921	1,325
FD85-1019-16-16	1	–	G 1 - 11	2	68	2.68	108	4.25	56	2.2	45	1.77	41	1 ⅝	2.974	1,349
FD85-1003-20-20	1¼	1¼-11	–	2	80	3.15	120	4.72	71	2.8	54.5	2.15	50	2	5.633	2,555
FD85-1019-20-20	1¼	–	G 1 ¼ - 11	2	80	3.15	120	4.72	71	2.8	54.5	2.15	50	2	5.633	2,555
FD85-1003-24-24	1½	1 ½ -11 ½	–	2	93	3.66	144	5.67	84	3.31	63.5	2.5	60	2 ⅜	7.721	3,502
FD85-1019-24-24	1½	–	G 1 ½ -11	2	93	3.66	144	5.67	84	3.31	63.5	2.5	60	2 ⅜	7.721	3,502
FD85-1003-32-32	2	2- 11 ½	–	2	118.6	4.67	169.4	6.67	110.5	4.35	82.5	3.25	76	3	15.046	6,825
FD85-1019-32-32	2	–	G 2 - 11	2	118.6	4.67	169.4	6.67	110.5	4.35	82.5	3.25	76	3	15.046	6,825

FD86 Series Thread to Connect 5,000 psi Dry Break – High Impulse

Fluid transfer & Hydraulic application



Danfoss Hansen FD86 Series is a thread together steel quick coupling offering dry break and high impulse technology and capabilities. The maximum operating pressure is 5,000 psi. The FD86 Series is available in either wing nut or hex nut configurations for ease of assembly and disassembly. (For higher pressure applications and additional size requirements, refer to FD96 on page 76.)

Global region

Product Features

- 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
- Teflon back-up rings along with secondary metal-to-metal sealing contact provides high impulse capability up to 5,000 psi operating pressure
- Acme threads prevent galling and provide ease of connection
- Steel flange available for bulkhead mounting
- Standard seal material: Nitrile (NBR)
- Standard body material: High resistance carbon steel with zinc trivalent plating

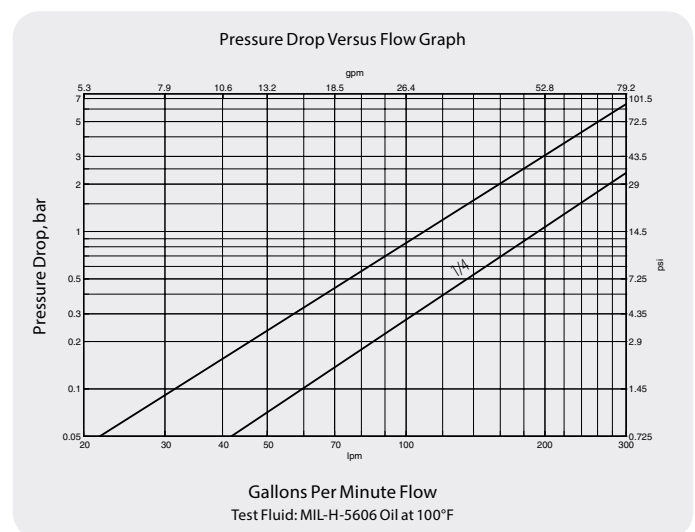
Physical characteristics

Body Size (in)	Max. Operating Pressure		Min. Burst Pressure		Vacuum Connected Only (in./Hg)	Rated Flow		Air Inclusion cc.max.	Fluid Loss cc.max.
	(bar)	(psi)	(bar)	(psi)		(lpm)	(gpm)		
1	345	5,000	1,034	15,000	28	189	50	2.90	0.72
1¼	345	5,000	1,034	15,000	28	284	75	4.61	1.00

Applications & Markets

- Hydraulic and Fluid Transfer
- Mining Equipment

Flow Data



FD86 Series Thread to Connect 5,000 psi Dry Break – High Impulse

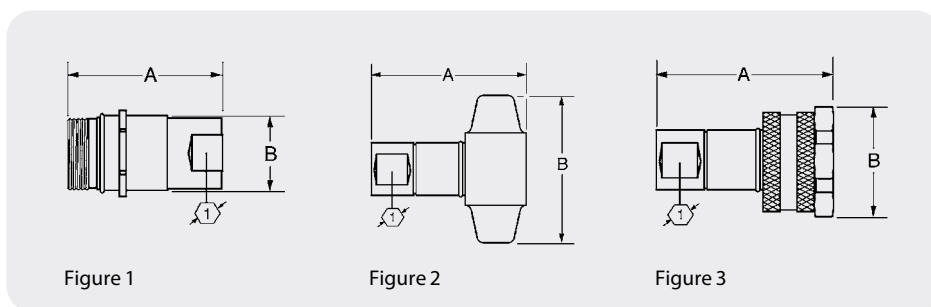


Figure 1

Figure 2

Figure 3

Dimensions (Female SAE O-Ring)

Part/Order Number NBR	FKM	EPDM	Type	Size	Body Size	Port Thread	Type	Fig.	Dimensions					
									A	B	Hex 			
									(mm)	(in)	(mm)	(in)	(mm)	(in)
FD86-1008-16-16	FD86-1043-16-16	FD86-1053-16-16	Plug/Male	1	1 5/16	1 5/8 - 12	Female SAE O-Ring	1	102.4	4.03	53.6	2.11	44.5	1.75
FD86-1010-16-16	FD86-1044-16-16	FD86-1054-16-16	Socket/Female	1	1 5/16	1 5/8 - 12	Female SAE O-Ring	2	117.3	4.62	114.3	4.50	-	-
FD86-1006-16-16	FD86-1042-16-16	FD86-1052-16-16	Socket/Female	1	1 5/16	1 5/8 - 12	Female SAE O-Ring	3	117.3	4.62	71.4	2.81	15.8	1.62
FD86-1008-20-20	FD86-1043-20-20	FD86-1053-20-20	Plug/Male	1 1/4	1 5/8	1 5/8 - 12	Female SAE O-Ring	1	105.7	4.16	63.0	2.48	57.2	2.25
FD86-1010-20-20	FD86-1044-20-20	FD86-1054-20-20	Socket/Female	1 1/4	1 5/8	1 5/8 - 12	Female SAE O-Ring	2	132.6	5.22	133.4	5.25	-	-
FD86-1006-20-20	FD86-1042-20-20	FD86-1052-20-20	Socket/Female	1 1/4	1 5/8	1 5/8 - 12	Female SAE O-Ring	3	132.6	5.22	86.4	3.40	50.8	2.00

Dimensions (Female NPT)

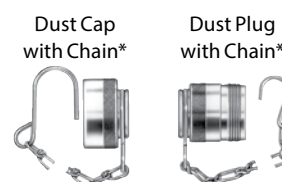
Part/Order Number NBR	FKM	EPDM	Type	Size	Body Size	Port Thread	Type	Fig.	Dimensions					
									A	B	Hex 			
									(mm)	(in)	(mm)	(in)	(mm)	(in)
FD86-1002-16-16	FD86-1040-16-16	FD86-1050-16-16	Plug/Male	1	1 - 1 1/2	1 - 1 1/2	Female NPT	1	111.8	4.40	53.6	2.11	44.5	1.75
FD86-1001-16-16	FD86-1039-16-16	FD86-1049-16-16	Socket/Female	1	1 - 1 1/2	1 - 1 1/2	Female NPT	2	126.5	4.98	114.3	4.50	-	-
FD86-1004-16-16	FD86-1041-16-16	FD86-1051-16-16	Socket/Female	1	1 - 1 1/2	1 - 1 1/2	Female NPT	3	126.5	4.98	71.4	2.81	15.8	1.62
FD86-1002-20-20	FD86-1040-20-20	FD86-1050-20-20	Plug/Male	1 1/4	1 1/4 - 1 1/2	1 1/4 - 1 1/2	Female NPT	1	112.5	4.43	63.0	2.48	57.2	2.25
FD86-1001-20-20	FD86-1039-20-20	FD86-1049-20-20	Socket/Female	1 1/4	1 1/4 - 1 1/2	1 1/4 - 1 1/2	Female NPT	2	142.8	5.62	133.4	5.25	-	-
FD86-1004-20-20	FD86-1041-20-20	FD86-1051-20-20	Socket/Female	1 1/4	1 1/4 - 1 1/2	1 1/4 - 1 1/2	Female NPT	3	142.8	5.62	86.4	3.40	50.8	2.00

Repair Kits

Part/Order Number NBR	FKM	EPDM	Body Size	Coupling Type
FF10596-16	FF10597-16	FF10598-16	1	Male
FF10593-16	FF10594-16	FF10595-16	1	Female
FF10596-20	FF10597-20	FF10598-20	1 1/4	Male
FF10593-20	FF10594-20	FF10595-20	1 1/4	Female

Dust Caps and Dust Plugs

Part/Order Number Dust Cap with Chain	Dust Plug with Chain	Body Size
FD86-1018-16	FD86-1016-16	1
FD86-1018-20	FD86-1016-20	1 1/4



W46000 Series

Fluid transfer & Hydraulic application



Danfoss Hansen W46000 Series is a wing nut style screw to connect coupling used in hydraulic applications.

EMEA region

Product Features

- Wing nut screw to connect
- Plug/Male half has bulkhead mount capability
- Metal dust caps and dust plugs
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Nitrile

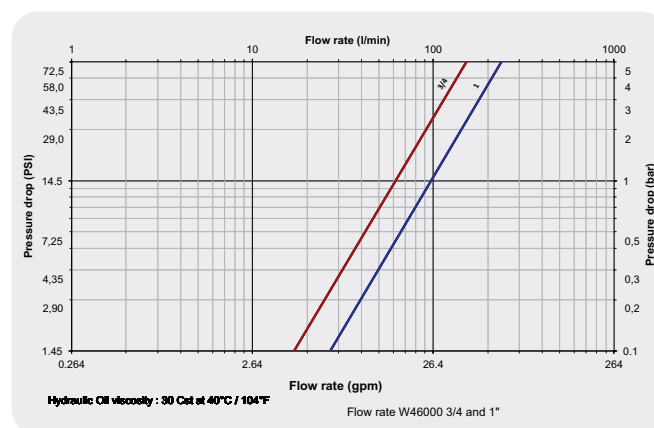
Physical characteristics

Coupling Size (in)	DN/ND	Max. Operating Pressure		Min. Burst Pressure		Rated Flow		Air Inclusion
		(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml max.
3/4	16	250	3,625	1,200	17,404	63	16.7	10
1	20	230	3,335	800	11,603	99	26.0	15

Applications & Markets

- Hydraulic Circuits

Flow Data



Size (in)	DN/ND	Socket/Female	Socket Dust Cap Only (mm)	Coupling Type	Connection	Dimensions		
						L1 (mm)	1 (mm)	Hex 1 (mm)
3/4	16	WA4604700	WA4614700	Socket/Female	G 3/4	77	M5	33
1	20	WA4605700	WA4615700	Socket/Female	G1	83	M6	40

Size (in)	DN/ND	Plug/Male	Plug Dust Cap Only	Coupling Type	Connection	Dimensions			
						L2 (mm)	2 (mm)	Hex 2 (mm)	Hex 3 (mm)
3/4	16	WA4604400	WA4614400	Plug/Male	G 3/4	78	G 1" 1/4	46	50
1	20	WA4605400	WA4615400	Plug/Male	G 1	83	G 1" 1/4	55	50

Couplings for high-pressure applications

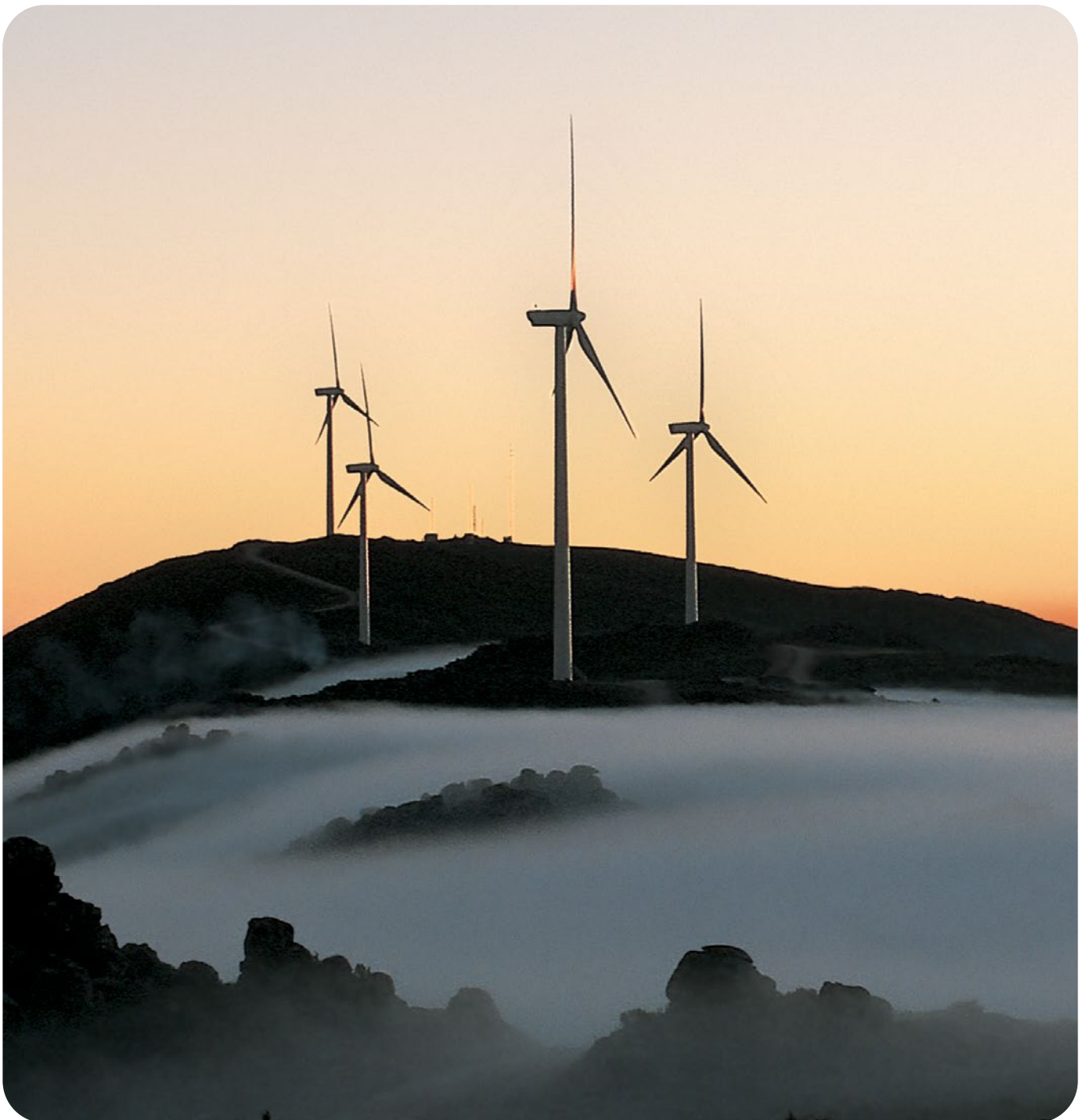


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HP3 Series

High Pressure Application



Danfoss Hansen HP3 Series Hydraulic Jack/Enerpac Interchange is designed for high-pressure applications up to 700 bar (10,000 psi).

Global region

Product Features

- Thread together design
- 700 bar (10,000 psi) operating pressure
- Ball valve
- Seal material: Nitrile (NBR)
- Body material: High resistance carbon steel with zinc trivalent chromate plating

Physical characteristics

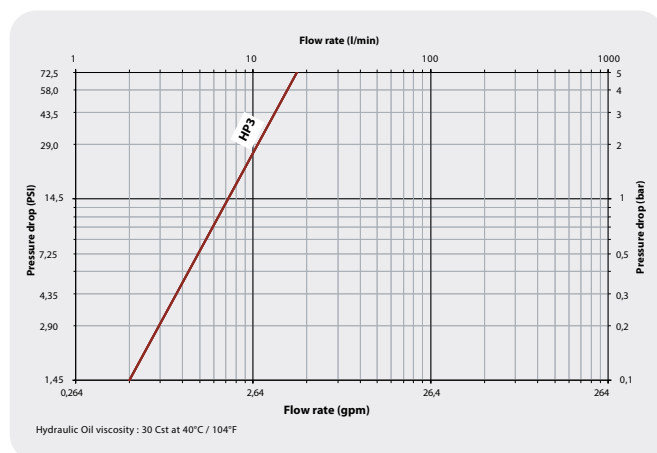
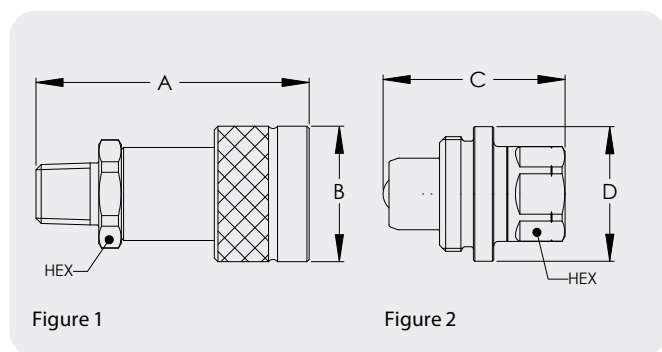
Body Size	Max. Operating Pressure (Static) Connected		Min. Burst Pressure Connected		Rated Flow	
(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
3/8	700	10,000	2,200	31,900	23	6

* Connect and disconnect under pressure not allowed.

Dimensions

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex 	
							A	B				
							(mm)	(in)	(mm)	(in)	(mm)	(in)
HP3SB37M	Socket/Female	3/8	3/8	3/8-18	Male NPT	1	72.2	2.84	35.0	1.38	24	0.94
HP3PB37F	Plug/Male	3/8	3/8	3/8-18	Female NPT	2	40.0	1.57	35.0	1.38	32	1.26

Flow Data



Applications & Markets

- Hydraulic jack
- Portable hydraulic rams

Dust Caps and Dust Plugs

Body Size	Dust Cap	Dust Plug
3/8	WA5612400	WA5612700



W56000 Series

High Pressure Application



Danfoss Hansen W56000 Series is a screw to connect coupling designed to operate at pressures exceeding 10,000 psi or 700 bar. Rugged design makes these couplings suitable for hydraulic jacks and lift loading.

Global region

Product Features

- Screw to connect double shut off with poppet valve
- Designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU.
- Interchanges with other couplings with the same profile
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Nitrile (NBR)

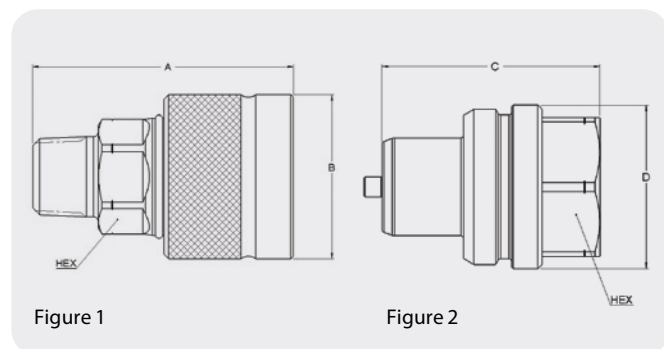
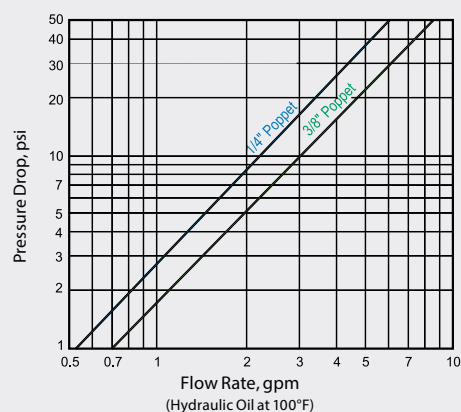
Physical characteristics

Coupling Size	DN/ND	Max. Operating Pressure		Min. Burst Pressure		Rated Flow		Air Inclusion
(in)		(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml max
¼	5.7	700	10,000	2,800	40,000	11	2.9	1.1
⅜	7.6	700	10,000	2,800	40,000	16	4.2	1.7

Applications & Markets

- Hydraulic Jacks, Lifts
- Emergency Rescue Equipment

Flow Data



Part/Order Number	DN/ND	Body Size	Coupling Type	Connection	Fig.	Dimensions					
						A		B		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
WA5651700	5.7	¼	Socket/Female	¼ NPT Male	1	62	2.44	28.5	1.12	22	0.87
WA5652700	7.6	⅜	Socket/Female	⅜ NPT Male	1	55.6	2.19	35	1.38	22	0.87

Part/Order Number	DN/ND	Body Size	Coupling Type	Connection	Fig.	Dimensions					
						C		D		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
WA5651400	5.7	¼	Plug/Male	¼ NPT Female	2	32	1.26	28	1.10	19	0.75
WA5652400	7.6	⅜	Plug/Male	⅜ NPT Female	2	42	1.65	32	1.26	27	1.06

Dust Caps and Dust Plugs

Body Size	Dust Cap	Dust Plug
¼	WA5611400	WA5611700
⅜	WA5612400	WA5612700



FD35 Series 10,000 psi Ball Latch

High Pressure Application



Danfoss Hansen FD35 Series ball latch has a greater surface contact area for long surface life in rugged high pressure applications. The maximum operating pressure is 10,000 psi.

Global region

Product Features

- 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: FKM
 - Standard body material: High-resistance carbon steel with Zinc trivalent plating

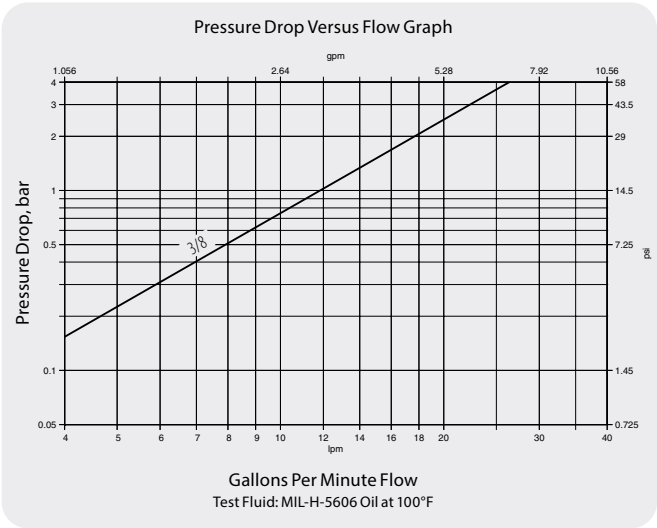
Physical characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure		Vacuum Connected Only		Rated Flow		Air Inclusion	Fluid Loss
	(in)	(bar) (psi)	(bar) (psi)		(in./Hg)		(lpm) (gpm)		cc.max.	cc.max.
3/8		700 10,000	2,800 40,000		28		8 2		0.50	0.50

Applications & Markets

- 10,000 psi Hydraulic Applications
- Hydraulic Tool
- Hydraulic Ram and Work Loading

Flow Data



FD35 Series 10,000 psi Ball Latch

Global region

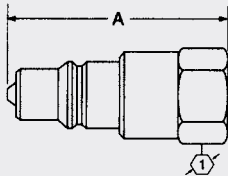


Figure 1

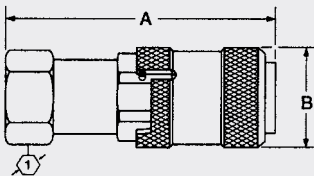


Figure 2

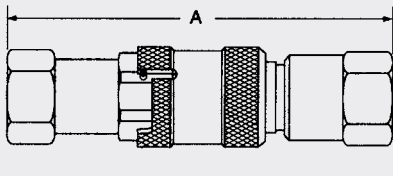


Figure 3

Dimensions (Female NPT, Valved)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex ①	
							A		B			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD35-1002-06-06	Plug/Male	3/8	3/8	3/8-18	Female NPT	1	53.8	2.12	-	-	23.9	0.94
FD35-1001-06-06	Socket/Female	3/8	3/8	3/8-18	Female NPT	2	65.0	2.56	32.3	1.27	23.9	0.94
FD35-1000-06-06	Complete	3/8	3/8	3/8-18	Female NPT	3	89.9	3.54	-	-	-	-

Dimensions (Female SAE O-Ring, Valved)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex ①	
							A		B			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD35-1008-06-06	Plug/Male	3/8	3/8	3/8-18	Female SAE O-Ring	1	53.8	2.12	-	-	23.9	0.94
FD35-1007-06-06	Socket/Female	3/8	3/8	3/8-18	Female SAE O-Ring	2	65.0	2.56	32.3	1.27	23.9	0.94
FD35-1006-06-06	Complete	3/8	3/8	3/8-18	Female SAE O-Ring	3	89.9	3.54	-	-	-	-

Dimensions (Female SAE O-Ring, 125 PSI Bleed Valve)

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			
							A		Hex ①	
							(mm)	(in)	(mm)	(in)
FD35-1052-06-06	Plug/Male	3/8	3/8	3/8-18	Female SAE O-Ring	1	53.8	2.12	23.9	0.94

Note: Incorporates a special relief valve set at 125 psi, preventing disconnected pressure build-up.

Dust Cap/Plug

Part/Order Number	Body Size
FD35-1042-06	3/8

Note: Fits male and female halves.



Dust Cap/Plug

UH Series

High Pressure Application



Danfoss Hansen 2UH series is a ball latch coupling used in ultra high pressure application up to 14,500 psi or 1,000 bar. The connection can be made with a push-to connect system. The standard body material is high tensile steel with anticorrosion finish to offer extended lifetime in the application.

Global region

Product Features

- Ultra high pressure resistance
- Standard body material: high tensile steel with anticorrosion finish, hardened steel sleeve
- PVC dust caps and plugs

Applications & Markets

- Windmill turbine
- Ultra high pressure equipment

Physical characteristics

Body Size (in)	Working Pressure		Nominal Flow Diameter (mm)	Socket Part/Order Number	Thread Size (Female)	Fig.	Socket Dimensions					
	(bar)	(psi)					A (mm)	(in)	B (mm)	(in)	Hex (mm)	(in)
1/4	1,000	14,503	2.5	2UHS25BSS12	1/4 BSPP	1	59	2.32	27	1.06	24	0.94

Flow Data

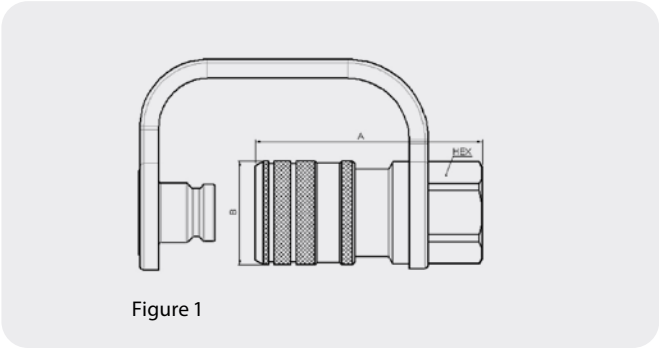
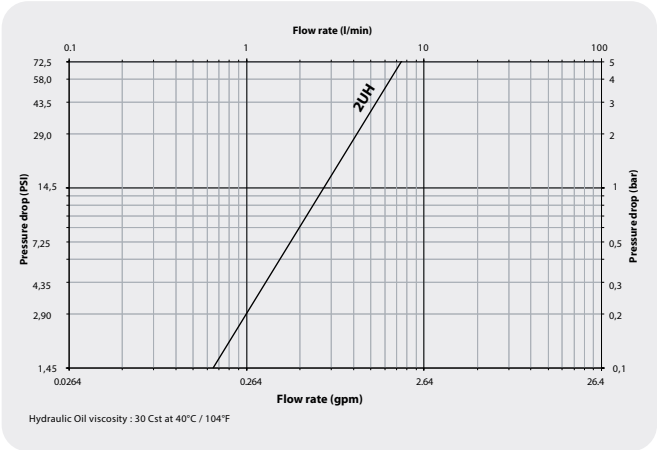


Figure 1



Couplings for water blast applications



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FD69 Series 10,000 psi Water Blast

Water blast application



Danfoss Hansen FD69 Series 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.

Global region

Product Features

- Safety sleeve lock guards against accidental disconnection
- Smooth bore “straight through” design for high flow fluid requirements
- Heavy duty back-up ring to prevent O-Ring extrusion
- Available in plated steel and stainless steel for added corrosion resistance
- Standard seal material: Nitrile (NBR)
- Standard body material: High resistance carbon steel with Zinc trivalent plating or stainless steel

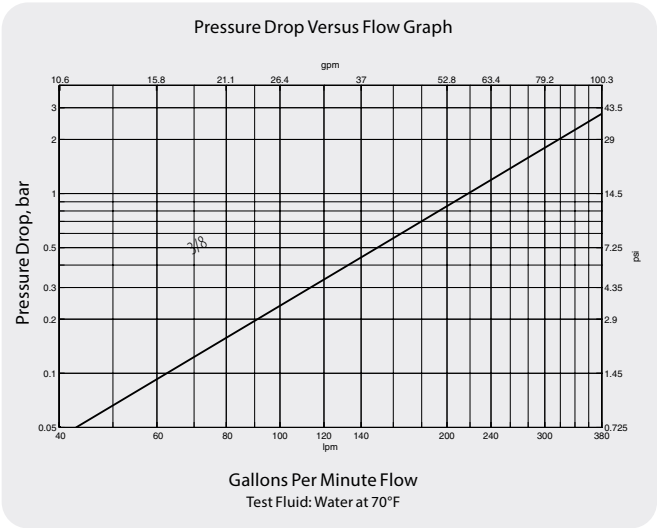
Physical characteristics

Coupling Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only		Rated Flow		Air Inclusion	Fluid Loss
	(in)	(bar) (psi)	(bar) (psi)		(in./Hg)		(lpm) (gpm)		cc.max.	cc.max.
1/2		689 10,000	2,758 40,000		28		170 45		-	-

Applications & Markets

- High pressure Water Blast
- Bridge/Concrete Repair
- Paint Stripping
- Shipyards

Flow Data



FD69 Series 10,000 psi Water Blast

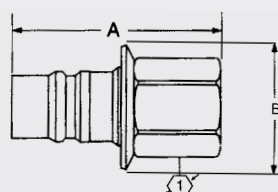


Figure 1

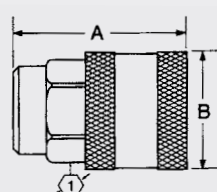


Figure 2

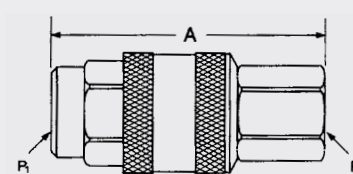


Figure 3

Dimensions (Female NPT)

Part/Order Number NBR	FKM	EPDM	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
Steel														
FD69-1002-06-08	FD69-1002-06-08	FD69-1002-06-08	Plug/Male*	½	¾	¾-18	Female NPT	1	47.0	1.85	41.7	1.64	25.4	1.00
FD69-1001-06-08	FD69-1026-06-08	FD69-1028-06-08	Socket/Female	½	¾	¾-18	Female NPT	2	54.1	2.13	41.1	1.62	31.8	1.25
FD69-1002-08-08	FD69-1002-08-08	FD69-1002-08-08	Plug/Male*	½	½	½-14	Female NPT	1	59.4	2.34	41.7	1.64	28.4	1.12
FD69-1001-08-08	FD69-1026-08-08	FD69-1028-08-08	Socket/Female	½	½	½-14	Female NPT	2	54.1	2.13	41.1	1.62	31.8	1.25
Stainless Steel														
FD69-1012-08-08	FD69-1012-08-08	FD69-1012-08-08	Plug/Male*	½	½	½-14	Female NPT	1	59.4	2.34	41.7	1.64	28.4	1.12
FD69-1011-08-08	-	-	Socket/Female	½	½	½-14	Female NPT	2	54.1	2.13	41.1	1.62	33.3	1.31

*Male halves contain no seals.

Part/Order Number		EPDM	Coupling Type	Body Size	Port Size	Thread		Type	Fig.	Dimensions	
NBR	FKM					(P)	(P1)			A	
						(mm)	(in)				
Steel											
FD69-1000-080808	FD69-1027-080808	FD69-1029-080808	Complete	½	½	½-14	½-14	Female NPT	3	87.1	3.43
FD69-1000-080806	FD69-1027-080806	FD69-1029-080806	Complete	½	½ & ¾	½-14	¾-18	Female NPT	3	87.1	3.43
FD69-1000-060808	FD69-1027-060808	FD69-1029-060808	Complete	½	¾ & ½	¾-18	½-14	Female NPT	3	74.7	2.94
FD69-1000-060806	FD69-1027-060806	FD69-1029-060806	Complete	½	¾	¾-18	¾-18	Female NPT	3	74.7	2.94
Stainless Steel											
FD69-1010-080808	-	-	Complete	½	½	½-14	½-14	Female NPT	3	87.1	3.43

Repair Kit, Female Interface Seal

Part/Order Number NBR	Coupling Size
FF10166	½

Check valves

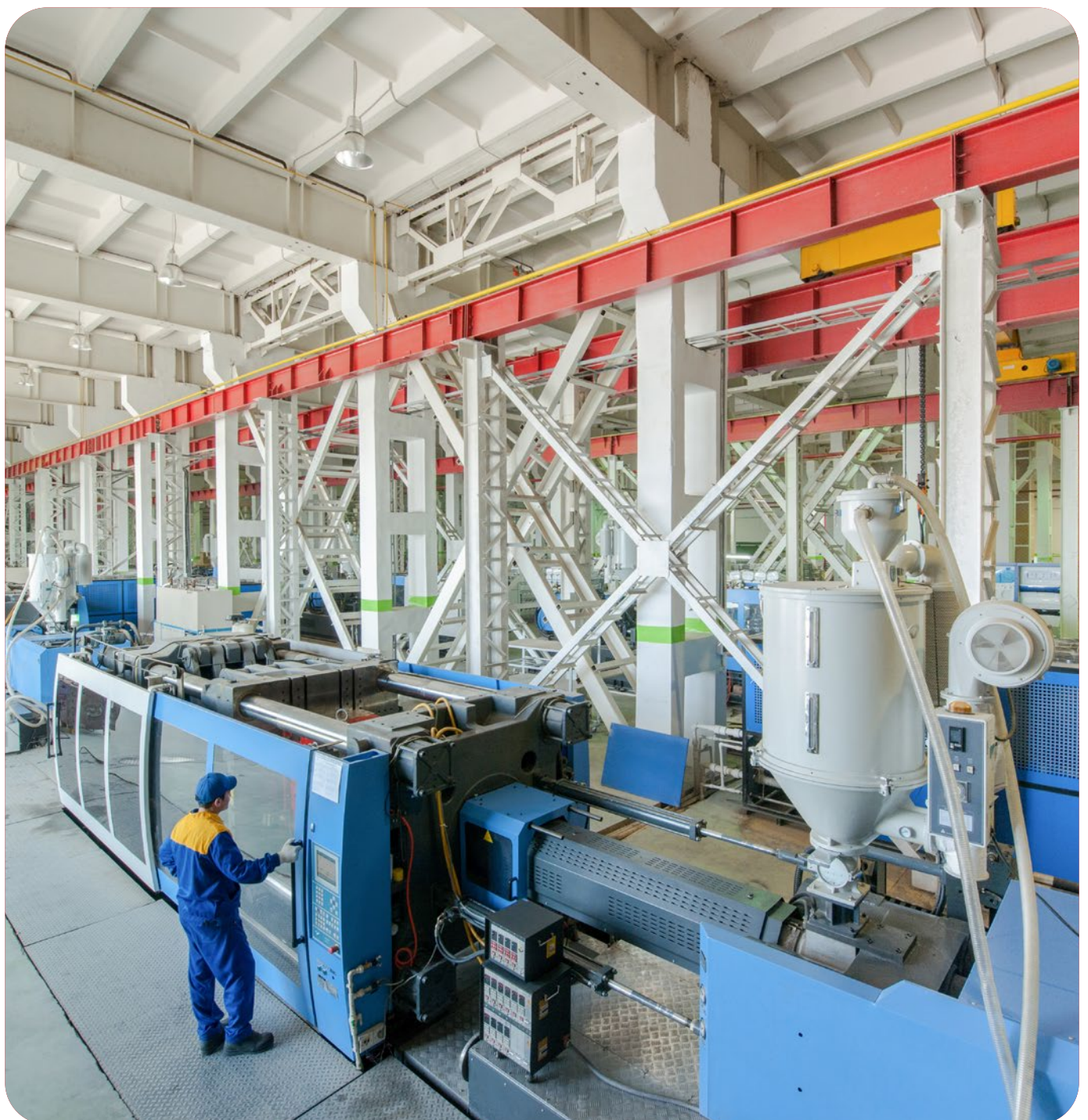


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R4000 Series (Steel)

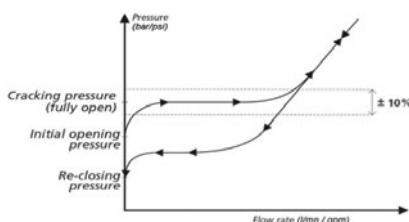
Check valves



The Danfoss Gromelle R4000 Series steel check valves are designed for multipurpose hydraulic applications to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered upon request.

Product Features

- Standard body material:
Zinc-plated steel
- Standard seal material:
NBR, FKM, EPDM



Operating Guidelines

The Danfoss R4000 series is designed to handle liquids. Should applications involving gases (but not unstable gases) be considered, the user should certify that sonic frequencies will not exceed 1 Hz (one cycle per second). For further information, please contact Danfoss technical support.

Physical characteristics

Body Size	Nominal Flow Diameter	Max. Operating Pressure**				Rated Flow*	
		Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1			
		(in)	(mm)	(bar)	(psi)	(bar)	(psi)
½	3.8	700	10,150	700	10,150	4.5	1.19
¼	5.7	700	10,150	700	10,150	14.2	3.75
⅜	7.6	700	10,150	700	10,150	22	5.81
½	10.3	500	7,250	500	7,250	32	8.45
¾	14.2	500	7,250	500	7,250	72	19
1	16.5	500	7,250	500	7,250	117	30.9
1¼	20.5	300	4,350	300	4,350	188	49.66
1½	25.8	300	4,350	38	550	232	61.29
2	34.7	300	4,350	28	405	393	103.81

*Indicated values refer to a 1 bar/14.5 psi pressure drop.

**Group 1 = Hazardous media / Group 2 = Other media.

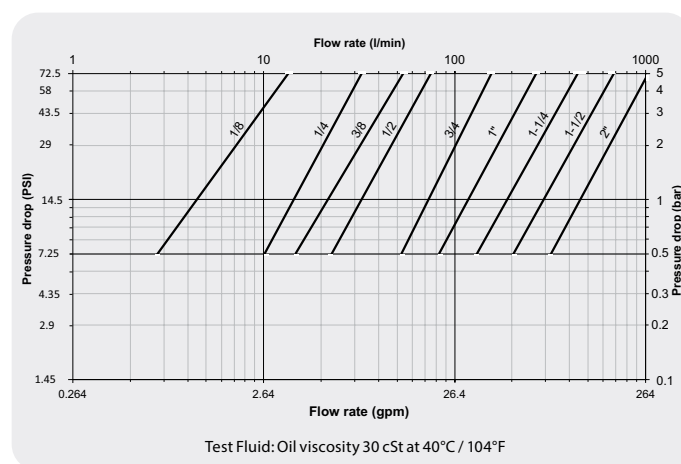
European Pressure Equipment Directive

Check valves with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Check valves with nominal diameters greater than 25 mm are designed and manufactured with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases. Our series R4000 check valves must not be used as safety devices (as per PED 2014/68/EU).

Applications & Markets

- All Industries
- Agriculture
- Construction
- Fluid Transfer Lines

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/- 4°F +212°F
FKM	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

R4000 Series (Steel)

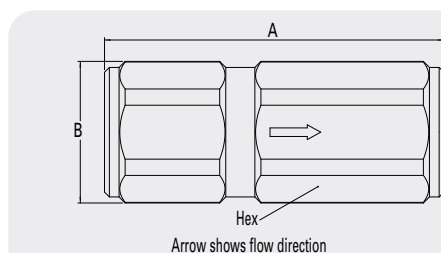


Figure 1

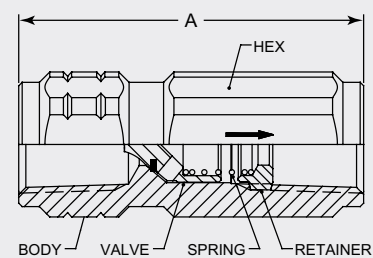


Figure 2

Cracking Pressure 0.5 bar (7.25 psi)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female) BSPP	Dimensions					Weight			
NBR*	FKM	EPDM				Fig.	A	B	Hex					
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
RA0400000	RA04000V0	RA04000E0	3/8	3.8	3/8	1	37	1.46	17.5	0.69	16	0.63	0.10	45
RA0401000	RA04010V0	RA04010E0	1/4	5.7	1/4	1	50	1.97	21	0.83	19	0.75	0.18	80
RA0402000	RA04020V0	RA04020E0	3/8	7.6	3/8	1	60	2.36	25	0.98	23	0.90	0.29	130
RA0403000	RA04030V0	RA04030E0	1/2	10.3	1/2	1	70	2.75	29.2	1.15	27	1.06	0.44	200
RA0404000	RA04040V0	RA04040E0	3/4	14.2	3/4	1	86	3.38	38	1.50	35	1.38	0.93	420
RA0405000	RA04050V0	RA04050E0	1	16.5	1	1	100	3.94	45	1.77	41	1.61	1.41	640
--	RA04060V0	RA04060E0	1 1/4	20.5	1 1/4	1	130	5.12	61	2.40	55	2.16	3.46	1,570
--	RA04070V0	RA04070E0	1 1/2	25.8	1 1/2	1	135	5.31	72	2.83	65	2.56	5.16	2,340
--	RA04090V0	RA04090E0	2	34.7	2	1	150	5.90	84	3.30	75***	2.95***	6.57	2,980

*Body size 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

**Alternative end connections available upon request. depending on size (please contact Danfoss technical support).

***Across flat dimension.

Cracking Pressure 0.5 bar (7.25 psi)

Part/Order Number				Dimensions				Rated Pressure	
NBR*	Size	Thread NPTF	Fig.	A	Hex			psi	bar
	(in)			(in)	(in)				
RA0421000	1/4	1/4-18	2	1.97	0.75			10,150	700
RA0422000	3/8	3/8-18	2	2.36	0.91			10,150	700
RA0423000	1/2	1/2-14	2	2.76	1.06			7,250	500
RA0424000	3/4	3/4-14	2	3.39	1.38			7,250	500
RA0425000	1	1-11 1/2	2	3.94	1.62			7,250	500
RA0429V0*	2	2-11 1/2	2	5.91	2.95			4,350	300

*Supplied with FKM seal.

Cracking Pressure 1 bar (14.5 psi)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female) BSPP	Dimensions					Weight			
NBR*	FKM	EPDM				Fig.	A	B	Hex					
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
RA040000B	RA04000VB	RA04000EB	3/8	3.8	3/8	1	37	1.46	17.5	0.69	16	0.63	0.10	45
RA040100B	RA04010VB	RA04010EB	1/4	5.7	1/4	1	50	1.97	21	0.83	19	0.75	0.18	80
RA040200B	RA04020VB	RA04020EB	3/8	7.6	3/8	1	60	2.36	25	0.98	23	0.90	0.29	130
RA040300B	RA04030VB	RA04030EB	1/2	10.3	1/2	1	70	2.75	29.2	1.15	27	1.06	0.44	200
RA040400B	RA04040VB	RA04040EB	3/4	14.2	3/4	1	86	3.38	38	1.50	35	1.38	0.93	420
RA040500B	RA04050VB	RA04050EB	1	16.5	1	1	100	3.94	45	1.77	41	1.61	1.41	640
--	RA04060VB	RA04060EB	1 1/4	20.5	1 1/4	1	130	5.12	61	2.40	55	2.16	3.46	1,570
--	RA04070VB	RA04070EB	1 1/2	25.8	1 1/2	1	135	5.31	72	2.83	65	2.56	5.16	2,340
--	RA04090VB	RA04090EB	2	34.7	2	1	150	5.90	84	3.30	75***	2.95***	6.57	2,980

*Body size 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

**Alternative end connections available upon request. depending on size (please contact Danfoss technical support).

***Across flat dimension.

R4000 Series (Brass)

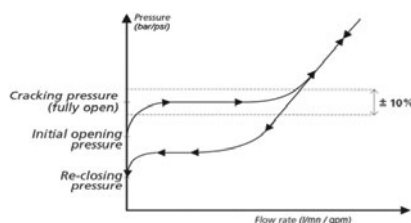
Check valves



The Danfoss Gromelle R4000 Series brass check-valves are designed to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered upon request. It is designed to handle liquids in all industries and for fluid transfer lines.

Product Features

- Standard body material: Nickelplated brass
- Standard seal material: NBR, FKM, EPDM



Operating Guidelines

The Danfoss R4000 series is designed to handle liquids. Should applications involving gases (but not unstable gases) be considered, the user should certify that sonic frequencies will not exceed 1 Hz (one cycle per second). For further information, please contact Danfoss technical support.

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure**				Rated Flow*	
		Non hazardous liquids		Hazardous liquids & Non-Hazardous Gases		L/min	(gpm)
		(bar)	(psi)	(bar)	(psi)		
1/8	3.8	400	5,800	400	5,800	4.5	1.19
1/4	5.7	400	5,800	400	5,800	14.2	3.75
3/8	7.6	400	5,800	400	5,800	22	5.81
1/2	10.3	250	3,625	250	3,625	32	8.45
3/4	14.2	250	3,625	250	3,625	72	19
1	16.5	250	3,625	250	3,625	117	30.9
1 1/4	20.5	150	2,175	150	2,175	188	49.66
1 1/2	25.8	150	2,175	75	1,085	232	61.29
2	34.7	100	1,450	25	360	393	103.81

*Indicated values refer to a 1 bar/14.5 psi pressure drop.

**Group 1 = Hazardous media / Group 2 = Other media.

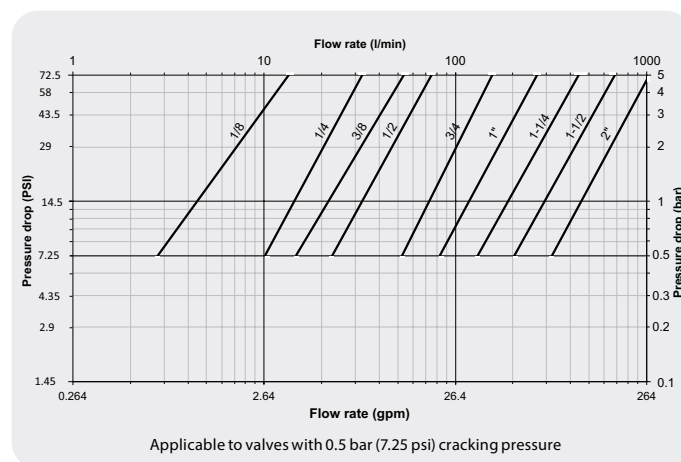
European Pressure Equipment Directive

All check valves are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Check valves with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous). Working pressures for liquids of Group 1 (hazardous) and gases of Group 2 (non-hazardous) are reduced. Please refer to "Physical Characteristics" table. Our series R4000 check valves must not be used as safety devices (as per PED 2014/68/EU).

Applications & Markets

- All Industries
- Agriculture
- Construction
- Fluid Transfer Lines

Flow Data



Seal Elastomer Data*

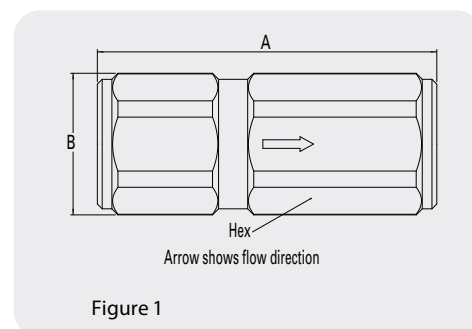
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/- 4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Danfoss technical support for further information on fluid compatibility.

R4000 Series (Brass)



Cracking Pressure 0.5 bar (7.25 psi)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female) BSPP	Fig.	Dimensions					Weight		
NBR*	FKM	EPDM					A	B	Hex					
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
RL0400000	RL04000V0	RL04000E0	⅜	3.8	⅜	1	37	1.46	17.5	0.69	16	0.63	0.11	50
RL0401000	RL04010V0	RL04010E0	¼	5.7	¼	1	50	1.97	21	0.83	19	0.75	0.19	85
RL0402000	RL04020V0	RL04020E0	⅜	7.6	⅜	1	60	2.36	25	0.98	23	0.9	0.31	140
RL0403000	RL04030V0	RL04030E0	½	10.3	½	1	70	2.75	29.2	1.15	27	1.06	0.47	215
RL0404000	RL04040V0	RL04040E0	¾	14.2	¾	1	86	3.38	38	1.50	35	1.38	1.01	460
RL0405000	RL04050V0	RL04050E0	1	16.5	1	1	100	3.94	45	1.77	41	1.61	1.52	690
-	RL04060V0	RL04060E0	1 ¼	20.5	1 ¼	1	130	5.12	61	2.40	55	2.16	3.73	1,690
-	RL04070V0	RL04070E0	1 ½	25.8	1 ½	1	135	5.31	72	2.83	65	2.56	5.71	2,590
-	RL04090V0	RL04090E0	2	34.7	2	1	150	5.90	84	3.30	75***	2.95***	7.50	3,400

*Body size 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

**Alternative end connections available upon request. depending on size (please contact Danfoss technical support).

***Across flat dimension.

Cracking Pressure 1 bar (14.5 psi)

Part/Order Number			Body Size	Nominal Flow Diameter	Thread Size** (Female) BSPP	Fig.	Dimensions					Weight		
NBR*	FKM	EPDM					A	B	Hex					
			(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
RL040000B	RL04000VB	RL04000EB	⅜	3.8	⅜	1	37	1.46	17.5	0.69	16	0.63	0.11	50
RL040100B	RL04010VB	RL04010EB	¼	5.7	¼	1	50	1.97	21	0.83	19	0.75	0.19	85
RL040200B	RL04020VB	RL04020EB	⅜	7.6	⅜	1	60	2.36	25	0.98	23	0.90	0.31	140
RL040300B	RL04030VB	RL04030EB	½	10.3	½	1	70	2.75	29.2	1.15	27	1.06	0.47	215
RL040400B	RL04040VB	RL04040EB	¾	14.2	¾	1	86	3.38	38	1.50	35	1.38	1.01	460
RL040500B	RL04050VB	RL04050EB	1	16.5	1	1	100	3.94	45	1.77	41	1.61	1.52	690
-	RL04060VB	RL04060EB	1 ¼	20.5	1 ¼	1	130	5.12	61	2.40	55	2.16	3.73	1,690
-	RL04070VB	RL04070EB	1 ½	25.8	1 ½	1	135	5.31	72	2.83	65	2.56	5.71	2,590
-	RL04090VB	RL04090EB	2	34.7	2	1	150	5.90	84	3.30	75***	2.95***	7.50	3,400

*Body size 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

**Alternative end connections available upon request. depending on size (please contact Danfoss technical support).

***Across flat dimension.

R4000 Series (Stainless Steel)

Check valves

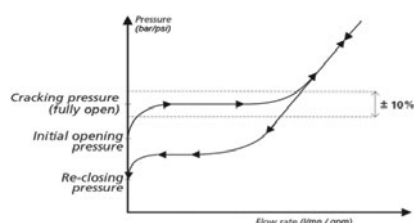


The Danfoss Gromelle R4000 Series stainless steel check-valves are designed to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered upon request. It is designed to handle liquids in all industries and for fluid transfer lines. The material used offers excellent corrosion resistance.

Global region

Product Features

- Standard body material: AISI 316L Stainless steel
- Standard seal material: FKM, EPDM



Operating Guidelines

The Danfoss R4000 series is designed to handle liquids. Should applications involving gases (but not unstable gases) be considered, the user should certify that sonic frequencies will not exceed 1 Hz (one cycle per second). For further information, please contact Danfoss technical support.

Physical characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure**				Rated Flow*	
		Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1		L/min	(gpm)
		(bar)	(psi)	(bar)	(psi)		
1/8	3.8	400	5,800	400	5,800	4.5	1.19
1/4	5.7	400	5,800	400	5,800	14.2	3.75
3/8	7.6	400	5,800	400	5,800	22	5.81
1/2	10.3	250	3,625	250	3,625	32	8.45
3/4	14.2	250	3,625	250	3,625	72	19.00
1	16.5	250	3,625	250	3,625	117	30.90
1 1/4	20.5	150	2,175	150	2,175	188	49.66
1 1/2	25.8	150	2,175	38	550	232	61.29
2	34.7	100	1,450	28	405	393	103.81

*Indicated values refer to a 1 bar/14.5 psi pressure drop.

**Group 1 = Hazardous media / Group 2 = Other media.

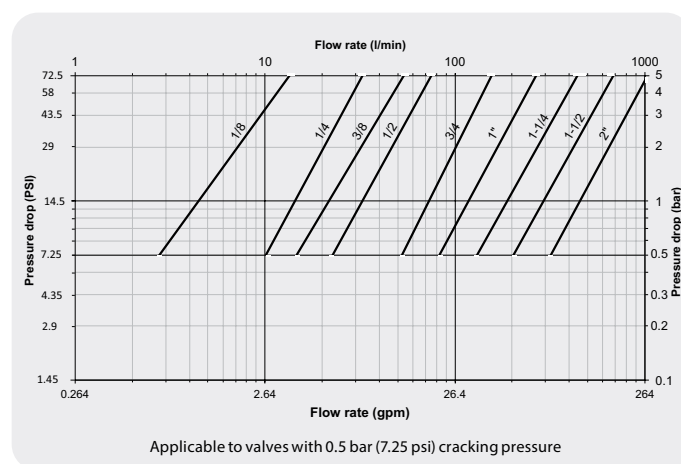
European Pressure Equipment Directive

Check valves with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Check valves with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases. Our series R4000 check valves must not be used as safety devices (as per PED 2014/68/EU).

Applications & Markets

- All Industries
- Agriculture
- Construction
- Fluid Transfer Lines

Flow Data



Seal Elastomer Data*

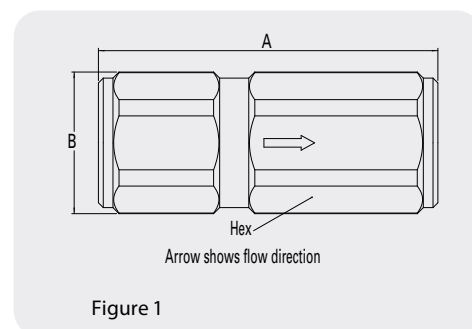
Seal Elastomer	Max. Operation Temperature Range
FKM (Fluorocarbon)*	-20°C +200°C/- 4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/- 40°F +302°F

* For reference only, based on Danfoss recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Danfoss technical support for further information on fluid compatibility.

R4000 Series (Stainless Steel)



Cracking Pressure 0.5 bar (7 psi)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions						Weight		
FKM	EPDM				Fig.	A		B	Hex				
		(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
RZ04000V0	RZ04000EO	⅛	3.8	⅛	1	37	1.46	17.5	0.69	16	0.63	0.10	45
RZ04010V0	RZ04010EO	¼	5.7	¼	1	50	1.97	21	0.83	19	0.75	0.18	80
RZ04020V0	RZ04020EO	⅜	7.6	⅜	1	60	2.36	25	0.98	23	0.90	0.29	130
RZ04030V0	RZ04030EO	½	10.3	½	1	70	2.75	29.2	1.15	27	1.06	0.44	200
RZ04040V0	RZ04040EO	¾	14.2	¾	1	86	3.38	38	1.50	35	1.38	0.93	420
RZ04050V0	RZ04050EO	1	16.5	1	1	100	3.94	45	1.77	41	1.61	1.41	640
RZ04060V0	RZ04060EO	1 ¼	20.5	1 ¼	1	130	5.12	61	2.40	55	2.16	3.46	1,570
RZ04070V0	RZ04070EO	1 ½	25.8	1 ½	1	135	5.31	72	2.83	65	2.56	5.16	2,340
RZ04090V0	RZ04090EO	2	34.7	2	1	150	5.90	84	3.30	75**	2.95**	6.57	2,980

*Alternative end connections available upon request, depending on size (please contact Danfoss technical support).

**Across flat dimension.

Cracking Pressure 1 bar (14.5 psi)

Part/Order Number		Body Size	Nominal Flow Diameter	Thread Size* (Female) BSPP	Dimensions						Weight		
FKM	EPDM				Fig.	A		B	Hex				
		(in)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
RZ04000VB	RZ04000EB	⅛	3.8	⅛	1	37	1.46	17.5	0.69	16	0.63	0.10	45
RZ04010VB	RZ04010EB	¼	5.7	¼	1	50	1.97	21	0.83	19	0.75	0.18	80
RZ04020VB	RZ04020EB	⅜	7.6	⅜	1	60	2.36	25	0.98	23	0.90	0.29	130
RZ04030VB	RZ04030EB	½	10.3	½	1	70	2.75	29.2	1.15	27	1.06	0.44	200
RZ04040VB	RZ04040EB	¾	14.2	¾	1	86	3.38	38	1.50	35	1.38	0.93	420
RZ04050VB	RZ04050EB	1	16.5	1	1	100	3.94	45	1.77	41	1.61	1.41	640
RZ04060VB	RZ04060EB	1 ¼	20.5	1 ¼	1	130	5.12	61	2.40	55	2.16	3.46	1,570
RZ04070VB	RZ04070EB	1 ½	25.8	1 ½	1	135	5.31	72	2.83	65	2.56	5.16	2,340
RZ04090VB	RZ04090EB	2	34.7	2	1	150	5.90	84	3.30	75**	2.95**	6.57	2,980

*Alternative end connections available upon request, depending on size (please contact Danfoss technical support).

**Across flat dimension.

Couplings for diagnostic applications



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FD15 Series Oil Sampling Valve

Diagnostic



Danfoss Hansen FD15 Series Oil Sampling Valve is designed for in-line sampling of system fluids without system shutdown, usually in less than one minute, and without fluid contamination.

Global region

Product Features

- Standard seal material: Nitrile (NBR)
 - Corrosion resistant plated steel with brass internal components
 - Operating Temperature Range: -65°F to +275°F (-53°C to +135°C)
 - Minimum Burst Pressure: 12,000 psi
 - Minimum Particle Restriction: 500 microns
 - Maximum Torque to Operate: 10 in. lbs.
 - FD15-1000-04 is qualified to the MIL-V-81940/2-1
- Note: This valve is not intended for aerospace applications.

Applications & Markets

- Engine oil
- Lubricating oil
- Transmission fluid and hydraulic fluids in mobile construction equipment, military vehicles, trucks and stationary equipment

Operation

For best results, Danfoss 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..

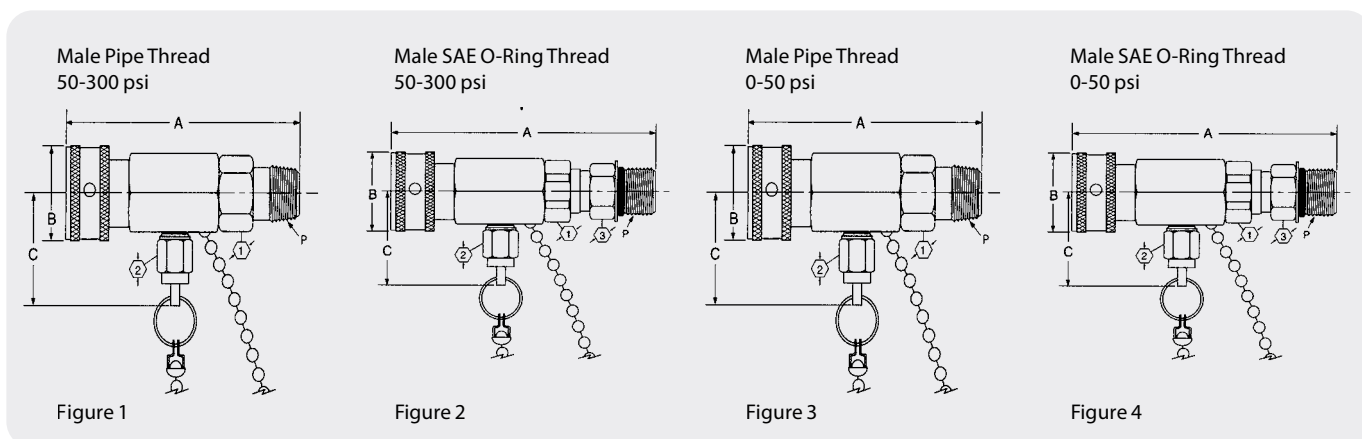
Instructions

1. Remove metal dustcover on discharge port.
2. Discharge approximately 200 ml of oil to flush valve by turning knurled knob $\frac{1}{4}$ turn to the right. Dispose of this sample in the appropriate manner.
3. Locate clean oil sample bottle under discharge port. (Sample bottles are usually supplied by the oil analysis lab.)
4. Turn knurled knob $\frac{1}{4}$ turn to the right until bottle is filled to the desired level. The knob can be backed off to throttle the rate of flow.
5. When bottle is filled let go of the knurled knob, the valve will close automatically. Replace metal dustcover wrench tight.

Notes

As required in MIL-V-81940/2-1 this valve's flow rate is between 100 and 1500 milliliters per minute at pressures from 0–50 psi. (MIL-V-81940/2-1 applies only to pressures from 50–300 psi.) The $\frac{1}{4}$ " NPTF version is qualified to MIL-V-81940/2-1 and its performance is representative of the other inlet port configurations listed above. QPL-81940-9 6-5-89

5100 Series Thread-to-Connect



Dimensions (Male Pipe Thread)

Part/Order Number NBR	Sampling Type	Port Size	Thread	Type	Fig.	Dimensions											
						A	B		C		Hex ①		Hex ②		Hex ③		
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD15-1000-02	50-300 psi	½	½-27	Male Pipe Thread	1	61.5	2.42	25.4	1.00	33.0	1.30	17.5	0.69	9.7	0.38	-	-
FD15-1000-04	50-300 psi	¼	1/4-18	Male Pipe Thread	1	65.0	2.56	25.4	1.00	33.0	1.30	17.5	0.69	9.7	0.38	-	-

Dimensions (Male SAE O-Ring Thread)

Part/Order Number NBR	Sampling Type	Port Size	Thread	Type	Dimensions												
					Fig.	A		B		C		Hex ①		Hex ②		Hex ③	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD15-1002-04	50-300 psi	3/8	3/8-20	Male SAE O-Ring Thread	2	70.9	2.79	25.4	1.00	33.0	1.30	17.5	0.69	9.7	0.38	14.2	0.56

Dimensions (Male Pipe Thread)

Part/Order Number NBR	Sampling Type	Port Size	Thread	Type	Dimensions												
					Fig.	A		B		C		Hex ①		Hex ②		Hex ③	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD15-1026-04	0-50 psi	¼	¼-18	Male Pipe Thread	3	65.0	2.56	25.4	1.00	33.0	1.30	17.5	0.69	9.7	0.38	-	-

Dimensions (Male SAE O-Ring Thread)

Part/Order Number NBR	Sampling Type	Port Size	Thread	Type	Dimensions												
					Fig.	A		B		C		Hex ①		Hex ②		Hex ③	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FD15-1025-04	0-50 psi	3/8	3/8-20	Male SAE O-Ring Thread	4	70.9	2.79	25.4	1.00	33.0	1.30	17.5	0.69	9.7	0.38	14.2	0.56

FD90 Series Diagnostic Coupling SAE J1502 Interchange

Diagnostic



Danfoss Hansen 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.

Global region

Product Features

- 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: Nitrile (NBR)
- Standard Body Material: High resistance carbon steel with Zinc trivalent plating
- Diagnostic pressure testing for hydraulic systems

Physical characteristics

Coupling Body Size			Max. Operating Pressure		Min. Burst Pressure Connected Only		Vacuum		Rated Flow		Air Inclusion		Fluid Loss	
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)		cc.max.		cc.max.	
1/4	483	7,000	1,931	28,000	28			1.89	0.6		0.02		0.10	

Dimensions (Female Pipe, Valved)

Part/Order Number NBR	Part/Order Number with Dust Cap NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex ①	
								A	B			(mm)	(in)
FD90-1034-02-04	FD90-1035-02-04	Plug/Male	1/4	3/8	1/8 - 27	Female NPT	1	43.2	1.70	-	-	15.7	0.62
FD90-1021-02-04	—	Socket/Female	1/4	3/8	1/8 - 27	Female NPT	2	49.5	1.95	25.4	1.00	19.1	0.75
FD90-1034-04-04	FD90-1035-04-04	Plug/Male	1/4	1/2	1/4 - 18	Female NPT	1	48.3	1.90	-	-	19.1	0.75
FD90-1021-04-04	—	Socket/Female	1/4	1/2	1/4 - 18	Female NPT	2	57.2	2.25	25.4	1.00	19.1	0.75

Dimensions (Male SAE O-Ring, Valved)

Part/Order Number NBR	Part/Order Number with Dust Cap NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex ①	
								A	B			(mm)	(in)
FD90-1044-03-04	FD90-1004-03-04	Plug/Male	1/4	3/8	3/8 - 24	Male SAE O-Ring	3	38.6	1.52	-	-	15.7	0.62
FD90-1044-04-04	FD90-1004-04-04	Plug/Male	1/4	7/16	7/16 - 20	Male SAE O-Ring	3	40.1	1.58	-	-	15.7	0.62
FD90-1044-05-04	FD90-1004-05-04	Plug/Male	1/4	1/2	1/2 - 20	Male SAE O-Ring	3	33.5	1.32	-	-	15.7	0.62
FD90-1044-06-04	FD90-1004-06-04	Plug/Male	1/4	9/16	9/16 - 18	Male SAE O-Ring	3	33.5	1.32	-	-	17.5	0.69

Dimensions (Female Pipe, Valved)

Part/Order Number NBR	Part/Order Number with Dust Cap NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Hex ①	
								A	B			(mm)	(in)
FD90-1012-02-04	FD90-1045-02-04	Plug/Male	1/4	3/8	1/8 - 27	Male NPT	4	40.6	1.60	-	-	15.7	0.62
FD90-1012-04-04	FD90-1045-04-04	Plug/Male	1/4	1/2	1/4 - 18	Male NPT	4	37.8	1.49	-	-	17.5	0.69

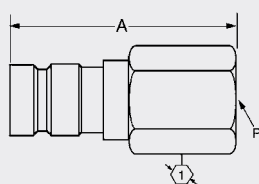


Figure 1

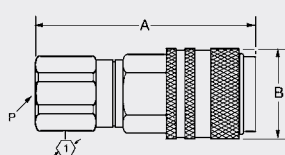


Figure 2

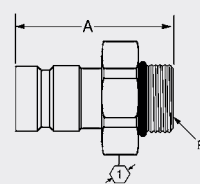


Figure 3

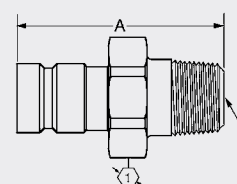


Figure 4

FD90 Series Diagnostic Coupling SAE J1502 Interchange

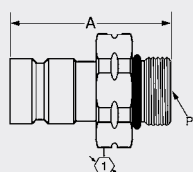


Figure 5

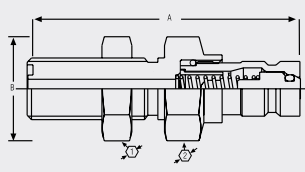


Figure 6

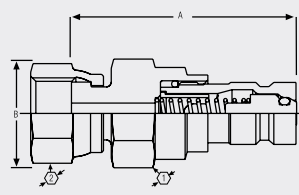


Figure 7

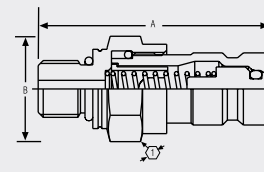


Figure 8

Dimensions (Metric Male O-Ring, Valved)

Part/Order Number NBR	Part/Order Number with Dust Cap NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex 	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
FD90-1046-06-04	FD90-1047-06-04	Plug/Male	1/4	M14	M14x1.5	Male O-Ring	5	38.5	1.52	-	-	19.1	0.75

Dimensions (Female SAE O-Ring, Valved)

Part/Order Number NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex 	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD90-1041-04-04	Socket/Female	1/4	7/16	7/16-20	Female SAE O-Ring	2	55.9	2.20	25.40	(1.00)	19.1	0.75

Dimensions (Male ORS Bulkhead, Valved)

Part/Order Number NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex 	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD90-1206-04-04	Plug/Male	1/4	9/16	9/16-18	Male ORS Bulkhead	6	62.5	2.46	20.6	0.81	20.6	0.81

Dimensions (Male ORS Bulkhead, Valved)

Part/Order Number NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex 	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD90-1061-04-04	Plug/Male	1/4	9/16	9/16-18	Female ORS Swivel	7	46.5	1.79	22.1	0.87	17.5	0.69
FD90-1061-06-04	Plug/Male	1/4	11/16	11/16-16	Female ORS Swivel	7	46.5	1.83	23.9	0.94	20.6	0.81
FD90-1061-08-04	Plug/Male	1/4	13/16	13/16-16	Female ORS Swivel	7	49.0	1.93	27.4	1.08	23.9	0.94

Dimensions (Male Metric O-Ring, Valved)

Part/Order Number NBR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex 	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD90-1090-10-04	Plug/Male	1/4	M10	M10x1	Mertic O-Ring	8	40.1	1.58	18.3	0.72	-	-

Dust Cap for Plug/Male Halves

Body Size	Part/Order Number
1/4	FD90-1040-04



Dust Cap for
Plug/Male Halves

Pressure Gauge Kit FF14802

Diagnostic



Danfoss' Pressure Gauge Kit and screw together test couplings provide accurate and efficient pressure control and monitoring of your hydraulic system, while minimizing the introduction of contamination. The complete kit is pre-packaged with Danfoss' most common adapters and test couplings.

AMER region

Product Features

- Test system at working pressure
- 630 bar (9,000 psi) working pressure
- 345 bar (5,000 psi) connect under pressure
- Accurate pressure control and system monitoring
- Leak-free connection before piston valve opens
- Simple and fast screw together connections
- Self-locking caps

Applications & Markets

- Hydraulics and mineral based fluids
- Agricultural equipment
- Construction equipment
- On-Highway vehicles
- Industrial equipment

Couplings/Adapters

- Standard body material: Zinc Nickel Plated Steel
- Standard seal material: FKM
- 345 bar (5,000 psi) connect under pressure
- 630 bar (9,000 psi) working pressure

Hose Assemblies

- 630 bar (9,000 psi) working pressure
- 20mm (.75") bend radius
- Nominal Bore 2mm (.08")
- Hose cover/core – PA 11/12
- Reinforcement – synthetic fiber

Gauges

- Polished Brass Casing
- Glycerine Filled
- Dual Scales
- Relief Valve
- Acrylic Lens

Pressure Gauge Kit

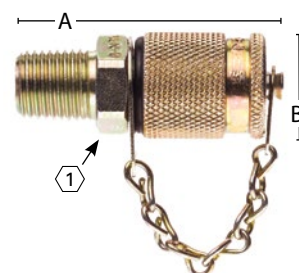
Complete Kit Number	Component Part/Order Number	Description	Quantity Per Kit
FF14802	FF14783	1/8" NPT Test Coupling	2
	FF14784	1/4" NPT Test Coupling	2
	FF14787	7/16-20 UNF Test Coupling	1
	FF14788	9/16-18 UNF Test Coupling	1
	FF14794	1/4" NPT Gauge Adapter	3

Complete Kit Number	Component Part/Order Number	Description	Quantity Per Kit
	FF14796	Union Adapter	2
	FF14798	60" Test Hose Assembly	2
	FF14799	(-) 30 in/Hg - 30 psi Gauge	1
	FF14800	1,000 psi Gauge	1
	FF14801	7,500 psi Gauge	1

Dimensions (Standard Test Couplings)

Part/Order Number	Thread	Dimensions				Hex		Bag Quantity*
		A	B					
		(mm)	(in)	(mm)	(in)	(mm)	(in)	
FF14783	1/8" NPT	45.0	(1.77)	20.0	(.79)	17.0	(.67)	4
FF14784	1/4" NPT	50.0	(1.97)	20.0	(.79)	17.0	(.67)	4
FF14785	M14	49.0	(1.93)	20.0	(.79)	19.0	(.75)	3
FF14786	M16	48.5	(1.91)	20.0	(.79)	22.0	(.87)	3
FF14787	7/16-20 UNF	47.0	(1.85)	20.0	(.79)	17.0	(.67)	4
FF14788	9/16-18 UNF	47.5	(1.87)	20.0	(.79)	19.0	(.75)	4

* When the indicated part number is ordered, the bag quantity is the number of pieces supplied. For example, if a quantity of one FF14792 is ordered, one bag containing two pieces will be delivered.



Standard Test Couplings

Pressure Gauge Kit FF14802

Dimensions (Bulkhead Couplings)

Part/Order Number	Thread	Dimensions A		B		Hex ①		Hex ②		Bag Quantity*
		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	
FF14789	M16	72.0	2.83	20.0	0.79	17.0	0.67	19.0	0.75	2

Dimensions (Swivel Run Tee with Test Coupling)

Part/Order Number	Thread #1	Thread #2	Dimensions A		B		Hex ①		Bag Quantity*
			(mm)	(in)	(mm)	(in)	(mm)	(in)	
FF14790	3/16-20 UNF	3/16-20 UNF	47.7	1.88	20.0	0.79	27.0	1.06	2
FF14791	3/16-18 UNF	3/16-18 UNF	47.7	1.88	20.0	0.79	27.0	1.06	2
FF14792	3/4-16 UNF	3/4-16 UNF	47.7	1.88	20.0	0.79	27.0	1.06	2

Dimensions (Gauge Adapter)

Part/Order Number	Thread #2	Thread #1	Dimensions A		Hex ①		Hex ②		Bag Quantity*
			(mm)	(in)	(mm)	(in)	(mm)	(in)	
FF14793	1/4 NPT	M16	54.0	2.13	19.0	0.75	19.0	0.75	2

Dimensions (Direct Gauge Adapter)

Part/Order Number	Thread	Dimensions A		B		Hex ①		Bag Quantity*
		(mm)	(in)	(mm)	(in)	(mm)	(in)	
FF14794	1/4 NPT	40.5	1.59	20.0	0.79	19.0	0.75	2
FF14795	3/16-20 UNF	41.0	1.61	20.0	0.79	19.0	0.75	2

Dimensions (Union Adapter)

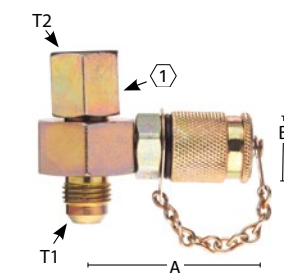
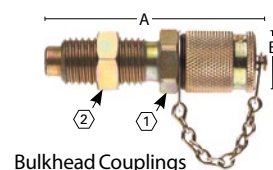
Part/Order Number	Thread #1	Thread #2	Dimensions A		Hex ①		Bag Quantity*
			(mm)	(in)	(mm)	(in)	
FF14796	M16	M16	42.5	1.67	17.0	0.67	2

Dimensions (Test Hose Assembly)

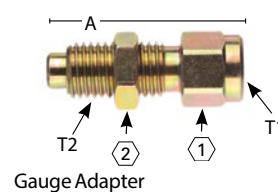
Part/Order Number	Thread	Dimensions Cut Length		Overall Length		Bag Quantity*
		(mm)	(in)	(mm)	(in)	
FF14797	M16	872.0	34.33	914.4	36.00	1
FF14798	M16	1482.0	58.35	1524.0	60.00	1

Dimensions (Gauges)

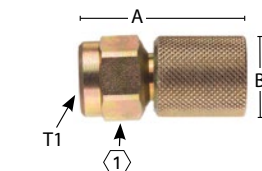
Part/Order Number	Thread	Dimensions A		B		Rating	Bag Quantity*
		(mm)	(in)	(mm)	(in)		
FF14799	1/4 NPT	65.3	2.57	53.3	2.10	-30 in/Hg - 30 psi	1
FF14800	1/4 NPT	65.3	2.57	53.3	2.10	0 - 1,000 psi	1
FF14801	1/4 NPT	65.3	2.57	53.3	2.10	0 - 7,500 psi	1



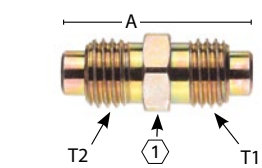
Swivel Run Tee with Test Coupling



Gauge Adapter



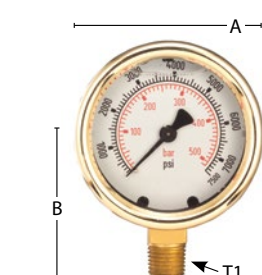
Direct Gauge Adapter



Union Adapter



Test Hose Assembly



Gauges

FS Flow Sensor Series

Diagnostic



Danfoss' Flow Sensor Series is designed to protect personnel and property in case of hose failure in compliance with Federal Safety Regulations. Flow Sensors are intended for use with compressed air.

Global region

Product Features

- Automatically shuts off air flow to ruptured hose
- Reduces risk of injury or damage from hose whip
- Automatically resets after failure correction
- Operates in any orientation
- Compact design, economical, tamperresistant
- Standard body material: Brass

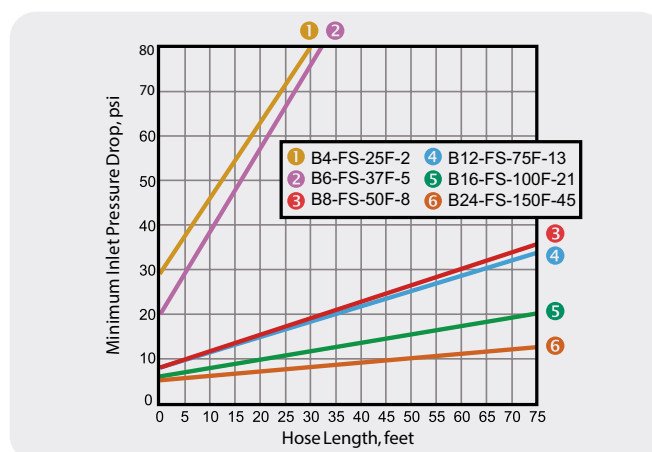
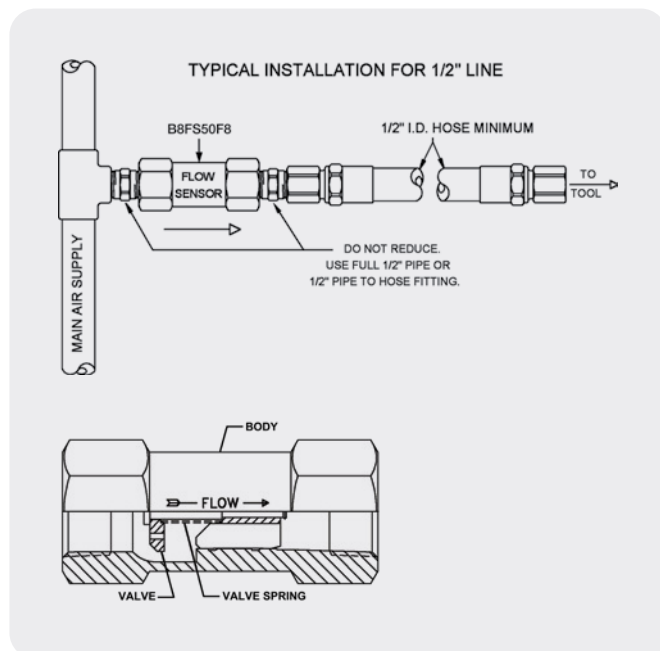
Physical characteristics

Size (in)	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
All Sizes	17	250	68	1,000	See Chart	See Chart

Applications & Markets

- General Industry
- Pneumatic Toolst

Flow Data



Flow Data: The graph above indicates the minimum inlet pressure for various hose lengths. Each Flow Sensor has a shut-off flow rating dependent upon inlet pressure. The length of hose and fitting size are critical in the proper operation of the valve. For example, with the B8FS50F8 Flow Sensor, the hose I.D. must be 1/2" using only 1/2" pipe thread end fittings. Thirty feet of hose requires at least 20 psig inlet pressure; fifty feet of hose requires at least 28 psig inlet pressure; and seventy-five feet of hose requires at least 36 psig inlet pressure. Inlet pressures lower than those indicated on the curves above will not guarantee protection in case of hose failure. Valve shut-off occurs only when flow exceeds the flow rating for the inlet pressure.

If hose lengths greater than 75 feet are required, a 1/2" size or larger Flow Sensor must be installed on the inlet end of each 75-foot section, and a correspondingly higher inlet pressure must be supplied for proper operation of the Flow Sensor to assure safety.

Part/Order Number*	Body Size	Thread Size	Type	Shut-off Flow, SCFM, at Inlet Pressure, PSIG								Dimensions			
				60	80	100	120	140	160	180	200	Length		Hex	Hex
												(mm)	(in)	(mm)	(in)
B4FS25F2	¼	¼-18	NPTF	16	18	20	22	23	25	26	27	54.36	2.14	19.05	0.75
B6FS37F5	⅜	⅜-18	NPTF	41	46	50	55	59	63	66	69	63.50	2.50	22.35	0.88
B8FS50F8	½	½-14	NPTF	65	73	80	87	93	99	104	109	79.25	3.12	26.92	1.06
B12FS75F13	¾	¾-14	NPTF	105	118	130	141	152	161	169	177	93.47	3.68	35.05	1.38
B16FS100F21	1	1-11 ½	NPTF	170	191	210	227	245	260	273	286	116.59	4.59	44.45	1.75
B24FS150F45	1 ½	1 ½-11 ½	NPTF	365	410	450	489	525	557	586	615	148.84	5.86	63.50	2.50

*All flow sensors have a pressure drop of approximately 2 psid at 80% of shut-off flow.

Couplings for breathing air applications



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FD17 Series

Breathing air application



The Danfoss Hansen FD17 high pressure coupling can be connected by hand while under pressure up to 5,500 psi/380 bar. This quick disconnect coupling is most commonly used in SCBA transfilling and buddy-breathing applications and is commonly found on SCBA equipment certified to various NIOSH, NFPA and CBRN standards.

Global region

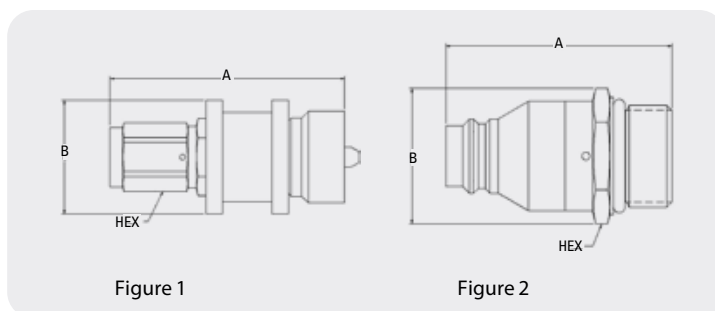
Product Features

- Connect and disconnect under pressure up to 5,500 psi/380 bar
- Certified on SCBA equipment that meets NIOSH, NFPA and CBRN requirements
- Complies with NFPA 1981 and NFPA 2013
- Standard body material: Stainless steel, aluminums

Physical characteristics

Series	Max. Operating Pressure		Min. Burst Pressure		Rated Flow*		Rated Temperature
	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm	
FD17	380	5,500	1,140	16,500	125	4.4	-40°F (-40°C)/+160°F (+71°C)

*Indicated value refer to a 1 bar/14.5 psi pressure drop.



Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A	B	Hex			
	(in)	(in)					(mm)	(in)	(mm)	(in)	(mm)	(in)
FD17-1003-04-04	Socket/Female	¼	-4	7/16-20	ORB	1	72.4	2.85	35.1	1.38	19.1	0.75
FD17-1082-10-04	Plug/Male	¼	-10	7/8-14	ORB	2	49.0	1.93	36.3	1.43	25.4	1.00

Male Dust Cap

Part/Order Number

FD17-1064-04*

*Indicates patented product



Female Dust Cap

Part/Order Number

FD17-1062-04



Safe Breathe Series

Breathing air application



Danfoss’ Safe Breathe series is a coupling made for breathing air application with a specific profile: it is interchangeable with similar breathing air couplings available on the market. The locking-system is made with a push-button, and the connection is automatic. The coupling offers a working pressure of 10 bar.

The two-step disconnection avoids any handling mistake and guarantees the true safety effect. For the disconnection, in case the Danfoss plug would be used with a non-safety socket, the plug valve design has a slow pressure release that ensures by itself the safety function. The 6mm size has only one step operation for disconnection.

Product Features

- Available in sizes 6 mm, 8 mm and 11mm
 - Color coded for a better identification and to avoid crossing lines
 - Automatic connection
 - Profile interchangeable with other series in the market
 - Working pressure of 10 bar
- Safety feature to avoid accidental disconnection
 - Push to connect locking-mechanism
 - Optional safety chains available on size 11mm
 - Standard body material: Stainless steel 316L
 - Standard seal material: NBR
 - Safety padlock can be added to avoid disconnecting

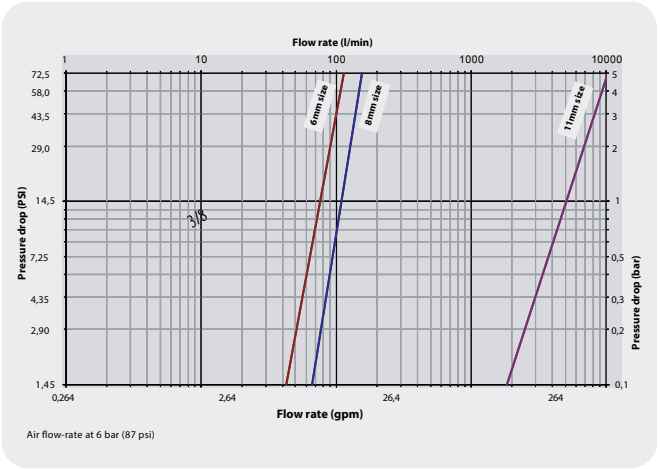
Physical characteristics

Body Size (mm)	Working Pressure		Nominal Flow Diameter (mm)	Plug Part/Order number	Socket Part/Order number	Thread		Profile certification
	(bar)	(psi)				Size	Type	
6	10	145	5,5	-	GZ1112638	3⁄8	BSPP	-
6	10	145	5,5	-	GZ1112612	1⁄2	BSPP	-
8	10	145	8	IC1119038	-	3⁄8	BSPP	-
8	10	145	8	IC1119012	-	1⁄2	BSPP	-
8	10	145	8	-	IZ1116013	1⁄2	BSPP	-
11	10	145	11	TC1111634	TZ1112134	3⁄4	BSPP	ISO 6150C

Applications & Markets

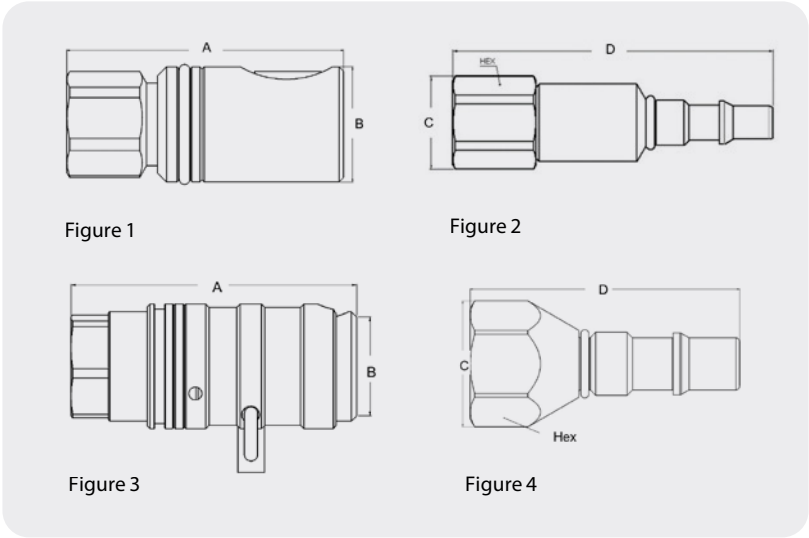
- Breathing air application
(industrial and chemical field)

Flow Data



Safe Breathe Series

Global region



Dimensions

Part/Order Number	Fig.	Thread Size BSPP	Socket dimensions				Plug dimensions								Length connected (mm)
			A (mm)	(in)	B (mm)	(in)	Hex (mm)	(in)	C (mm)	(in)	D (mm)	(in)	Hex (mm)	(in)	
GZ1112638	1	3/8	64.5	2.53	25.7	1.01	22	0.86	-	-	-	-	-	-	-
GZ1112612	1	1/2	66.5	2.61	25.7	1.01	27	1.06	-	-	-	-	-	-	-
IC1119012	2	1/2	-	-	-	-	-	-	24	0.94	98.5	3.8	Hex: 22	0.86	-
IC1119038	2	3/8	-	-	-	-	-	-	29.5	1.16	102	4.01	Hex: 27	1.06	-
TZ1112134	3	3/4	107.5	4.23	48.5	1.90	38	1.49	-	-	-	-	-	-	140
TC1111634	4	3/4	-	-	-	-	-	-	34	1.33	73	2.87	2 flats: 30	2 flats: 1.18	140

2500 Series

Breathing air application



Danfoss Hansen 2500 series is an aluminium ball latch coupling for breathing air application. Its anti-disconnection safety device eliminates the risk of accidental disconnection. The non-screwed adapter design avoids unscrewing of the adapter and hose-kicking also when the coupling is used with hoses. This coupling is available in size 1/4".

Global region

Product Features

- Anti-disconnection safety device
- Non-screwed adapter
- Size available in 1/4"
- Working pressure of 10 bar

Physical characteristics

Body Size	Max. Operating Pressure		Nominal Flow Diameter	Socket Part/ Order Number	Plug Part/ Order Number	Socket dimensions (Fig. 1)						Plug dimensions (Fig. 2)						Length connected
						A		B		C		D		E		F		
(in)	(bar)	(psi)	(mm)			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(mm)	
¼	10	145	7.4	2500S37H	LL2500P37H	106.45	4.19	12.5	0.49	20.8	0.81	81.2	3.19	12.5	0.49	10.4	0.12	187.6

Applications & Markets

- Breathing air application

Flow Data

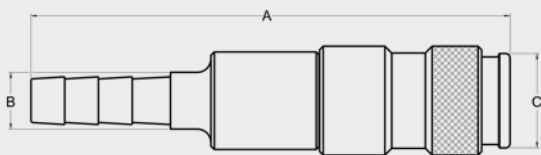
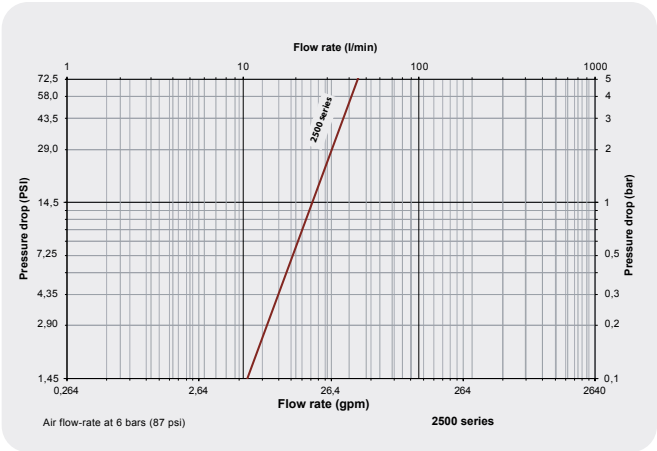


Figure 1 : Socket part



Figure 2 : Plug part

Couplings for thermal management application



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ADB Series (Aluminium) Flat Face/Dry Break

Thermal Management Application



Danfoss Hansen Aluminium Flat Face ADB coupling is a flat face/dry break coupling used for cooling systems in electric applications with circulating water and antifreeze fluids. This coupling is providing an enhanced solution for preventing spillage of cooling agent which can cause technical failures, system shutdowns, and difficult clean-ups.

Global region

Product Features

- Aluminium construction extends life for safer operations and reduced maintenance.
- Enhances operations in demanding applications with heat and vibration compared to plastic couplings.
- Up to 62% higher flow than ISO 16028 requirements to improve efficiency.
- 4-times safety factor at maximum operating pressure of 25 bar
- Options are available for railway applications with an enhanced version for vibration resistance tested according to EN 61373.
- Pre-guided system that helps users pre-position the coupling in difficult environments, making connection easy and reducing maintenance time.
- Full range of optional seals, end connections and sizes,

Physical characteristics

ADB Model	ISO size	Body size	Nominal Flow Diameter	Max. Operating Pressure		Rated* Flow	Air Inclusion	Fluid Loss	Force to Connect	
	(mm)	(in)	(mm)	(bar)	(psi)	(lpm)	ml-cc.	ml-cc.	N	lbf
A2DB	6.3	¼	5.9	25	360	25	0.002	0.001	77	17
A3DB	10	¾	9	25	360	80	0.012	0.03	103	23
A4DB	12.5	½	11.5	25	360	110	0.012	0.025	110	25
A6DB	19	¾	15	25	360	150	0.03	0.05	193	43
A8DB	25	1	18.5	25	360	290	0.15	0.13	180	40

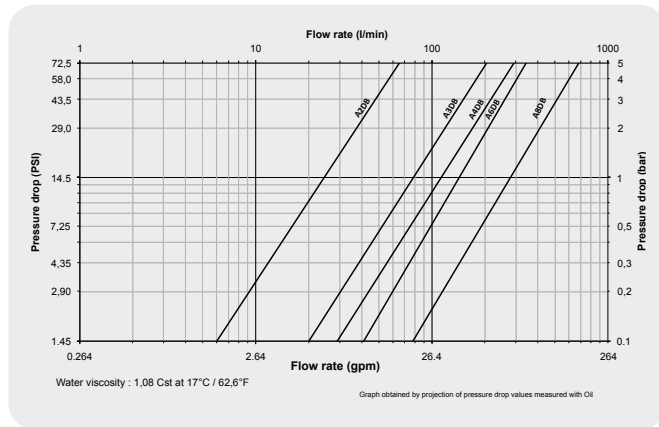
* Indicated values refer to a 1 bar / 14.5 psi pressure drop with water values obtained by projection of pressure drops measured with Oil.

Applications & Markets

- Electrical cooling applications
- Renewable energy
- Railway
- Processing industry
- Data centers

ADB Series (Aluminium) Flat Face/Dry Break

Flow Data



- Integrated relive valve into the front face of the Plug (Male).
- The valve opens at the given relive pressure in disconnected state.
- Applicable with all standard Sockets (Female).
- Flow rates relive valve < 1l/min.
- Seal Elastomer EPDM.
- Very low relive valve spillage.

Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

*Other sealing material could be available, contact Danfoss technical support for further information on sealing availability.

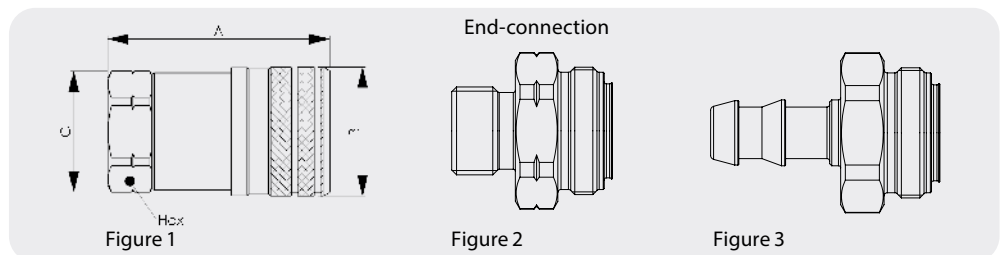
**For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

Plug (Male) Relive Valve Option*

Part/Order Number	ADB Model	Body size	Relive Pressure	Thread Size	
		(in)	(bar)	BSPP female	BSPP male
12027776	A4DBPS52	½	9±3	–	1/2'
12016893	A6DBPS51	¾	9±3	3/4'	–
12016878	A8DBPS51	1	9±3	1'	–

* On customer request.



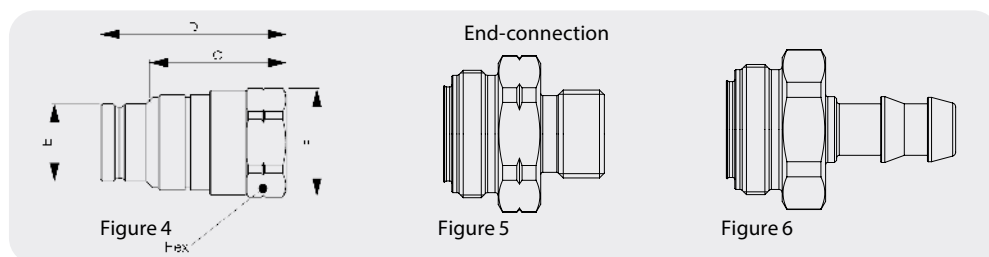
Sockets (Female)

Part/Order Number	Fig.	Body Size (in)	Thread Size		Hosebarb	Dimensions						Weight			
			BSPP female	BSPP male		A	B	C	Hex1					lbs	grams
A2DBS25BS192	1	¼	¼	–	–	46.7	1.84	26.8	1.06	24.5	0.96	22	0.87	0.104	47
A2DBS25MBS192	2	¼	–	¼	–	46.7	1.84	26.8	1.06	24.5	0.96	22	0.87	0.106	48
A2DBS25HT192	3	¼	–	–	¼	46.7	1.84	26.8	1.06	24.5	0.96	22	0.87	0.106	48
A2DBS37HT192	3	¼	–	–	¾	46.7	1.84	26.8	1.06	24.5	0.96	22	0.87	0.106	48
A3DBS37BS192	1	¾	¾	–	–	61.5	2.42	32	1.26	29.5	1.16	27	1.06	0.192	87
A3DBS37MBS192	2	¾	–	¾	–	61.5	2.42	32	1.26	29.5	1.16	27	1.06	0.192	87
A3DBS37HT192	3	¾	–	–	¾	61.5	2.42	32	1.26	29.5	1.16	27	1.06	0.190	86
A3DBS50BS192	1	¾	½	–	–	61.5	2.42	32	1.26	29.5	1.16	27	1.06	0.192	87
A3DBS50MBS192	2	¾	–	½	–	61.5	2.42	32	1.26	29.5	1.16	27	1.06	0.205	93
A3DBS50HT192	3	¾	–	–	½	61.5	2.42	32	1.26	29.5	1.16	27	1.06	0.201	91
A4DBS50BS192	1	½	½	–	–	63.3	2.49	37.9	1.49	35.5	1.4	32	1.26	0.284	129
A6DBS75BS192	1	¾	¾	–	–	88.5	3.48	48	1.89	46.5	1.83	41	1.61	0.613	278
A8DBS100BS192	1	1	1	–	–	93.9	3.70	57.4	2.26	54.9	2.16	50	1.97	0.939	426

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 4) together.

ADB Series (Aluminium) Flat Face/Dry Break



Sockets (Female)

Part/Order Number	Fig.	Body Size (in)	Thread Size			Dimensions										Weight	
			BSPP female	BSPP male	Hosebarb	D	E	F	G	Hex1						lbs	grams
A2DBP25BS192	4	1/4	1/4	—	—	43.5	1.71	16.5	0.65	24.5	0.96	32.1	1.26	22	0.87	0.062	28
A2DBP25MBS192	5	1/4	—	1/4	—	43.5	1.71	16.5	0.65	24.5	0.96	32.1	1.26	22	0.87	0.064	29
A2DBP25HT192	6	1/4	—	—	1/4	43.5	1.71	16.5	0.65	24.5	0.96	32.1	1.26	22	0.87	0.064	29
A2DBP37HT192	6	1/4	—	—	3/8	43.5	1.71	16.5	0.65	24.5	0.96	32.1	1.26	22	0.87	0.064	29
A3DBP37BS192	4	3/8	3/8	—	—	57.1	2.25	19.7	0.77	29.5	1.16	39.5	1.45	27	1.06	0.117	53
A3DBP37MBS192	5	3/8	—	3/8	—	57.1	2.25	19.7	0.77	29.5	1.16	39.5	1.45	27	1.06	0.117	53
A3DBP37HT192	6	3/8	—	—	3/8	57.1	2.25	19.7	0.77	29.5	1.16	39.5	1.45	27	1.06	0.115	52
A3DBP50BS192	4	3/8	1/2	—	—	57.1	2.25	19.7	0.77	29.5	1.16	39.5	1.45	27	1.06	0.117	53
A3DBP50MBS192	5	3/8	—	1/2	—	57.1	2.25	19.7	0.77	29.5	1.16	39.5	1.45	27	1.06	0.130	59
A3DBP50HT192	6	3/8	—	—	1/2	57.1	2.25	19.7	0.77	29.5	1.16	39.5	1.45	27	1.06	0.126	57
A4DBP50BS192	4	1/2	1/2	—	—	60.6	2.39	25.2	0.99	35.5	1.4	40.4	1.59	32	1.26	0.194	88
A6DBP75BS192	4	3/4	3/4	—	—	83.4	3.28	32.8	1.29	46.5	1.83	57.7	2.27	41	1.61	0.375	170
A8DBP100BS192	4	1	1	—	—	89.4	3.52	40.4	1.59	54.9	2.16	62	2.44	50	1.97	0.591	268

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 4) together.

Color Coding Ring Option*

Body Size (in)	ISO Size (mm)	Size	Socket/Female Ring Part/Order Number**				Plug/Male Ring Part/Order Number**				Tool Part/Order Number	Tool & Rings Kit Part/Order Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
1/2	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications.

Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions.

The color coded rings are easy to install by using the referenced tools. Please refer to the user guide on danfoss/qdc.com

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

** Orders must be in multiples of 10 pcs.

*** The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.

FD83 Series Full Flow Dual Interlock

Thermal Management Application



Danfoss Hansen's FD83 coupling is designed for fluid transfer and electronics cooling applications where full flow, fluid compatibility and safety are essential. The FD83 identical halves include two interlock features to eliminate spills and ensure maximum safety. Valves cannot be opened until the coupling halves are mated and coupling halves cannot be disconnected until both halves are closed.

Global region

Product Features

- Dual interlock safety feature eliminates accidental opening of coupling when disconnected with the use of a patented locking pin design and lever handle
- Design provides reliable performance and no spillage during maintenance or service
- Standard seal material: EPDM-P (Peroxide cured)
- Standard body material: 303 stainless steel
- Full flow coupling
- Identical coupling halves
- Maintenance and service friendly
- Passivated 303 stainless steel material provides broad fluid compatibility
- Wide range of terminal end options
- Operation temperature range: -3°C min (26.6°F), 60°C max (140°F)*

Physical characteristics

Couplin Size	Max Operating pressure						Min burst pressure						Rated Flow		Fluid Loss	Cv Value
	Connected		Disconnected Half		Connected		Connected		Disconnected Half		Connected		Rated Flow		cc. max.	
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)		
1	10	150	10	150	10	150	20	300	20	300	20	300	189	50	5.0	30
2	10	150	10	150	10	150	20	300	20	300	20	300	800	211	12	127

Applications & Markets

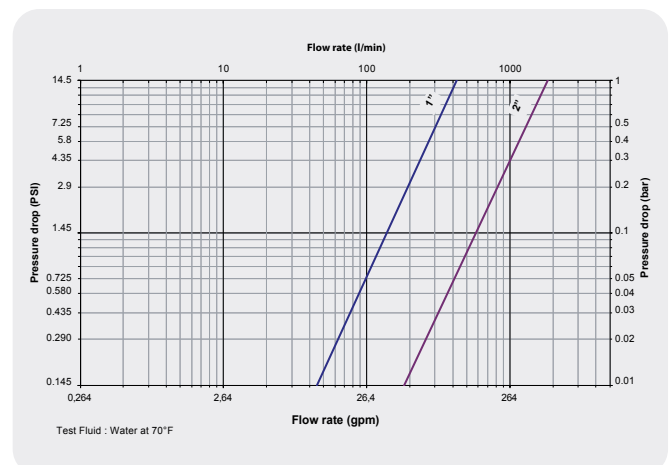
- Data Centers
- Thermal Management Systems
- Industrial Fluid Transfer
- Not intended for two-phase cooling

Seal Elastomer Data*

Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM-P (Peroxide Cured)	-40C° to 150C°	-40F° to 302F°

*For reference only, based on Danfoss recommended temperatures. Contact Danfoss technical support for further information on fluid compatibility.

Flow Data



FD83 Series Full Flow Dual Interlock

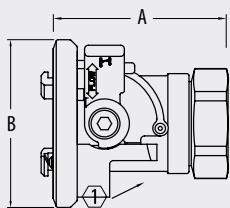


Figure 1

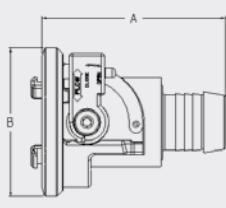


Figure 2

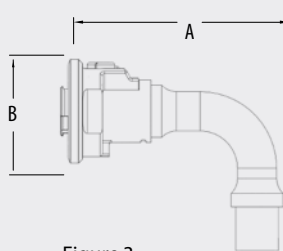


Figure 3

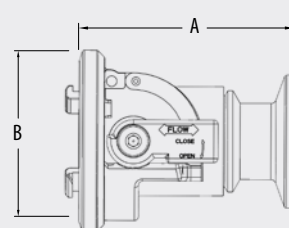


Figure 4

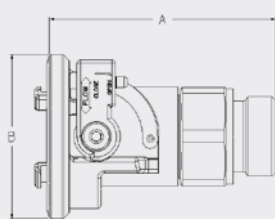


Figure 5

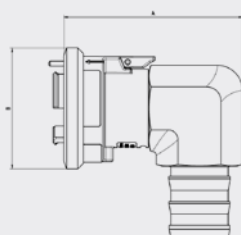


Figure 6

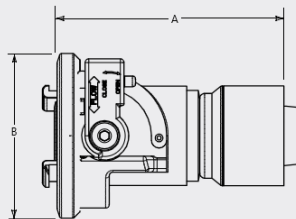


Figure 7

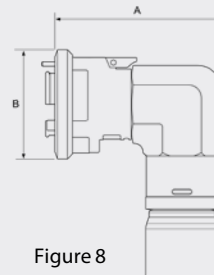


Figure 8

Dimensions (Female, SAE O-Ring Non-Valved)

Part Number	Order Number	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD83-2052-16-16	FD83-2052-16-16	1	1	1-11-½	Female NPTF	1	95.5	3.76	71.6	2.82	41	1.63
FD83-2052-12-16	FD83-2052-12-16	1	¾	¾-14	Female NPTF	1	70.1	2.76	71.6	2.82	41	1.63
FD83-2046-16-16	FD83-2046-16-16	1	1	NA	1" Hose Barb EHW194 hose	2	84.2	3.31	71.6	2.82	-	-
FD83-2092-16-16	FD83-2092-16-16	1	1	NA	1" Hose Barb 90° EHW194 hose	3	142.3	5.60	71.6	2.82	-	-
FD83-2096-16-16	FD83-2096-16-16	1	1	1 ½-12	Male ORB ISO 11926-3	5	95.5	3.76	71.6	2.82	41	1.63
FD83-2140-16-16	FD83-2140-16-16	1	1	G1-11	Male BSPP ISO 1179-2	5	95.5	3.76	71.6	2.82	41	1.63
FD83-2126-16-16	FD83-2126-16-16	1	1	G1-11	Female BSPP ISO 1179-1	1	84.3	3.32	71.6	2.82	41	1.63
FD83-2128-16-16	FD83-2128-16-16	1	1	NA	Sanitary Flange 1"-DIN32676/ISO2852/ BS4825	4	79.6	3.13	71.6	2.82	-	-
FD83-2126-32-32	FD83-2126-32-32	2	2	G2-11	Female BSPP ISO 1179-1	1	112.0	4.43	105.3	4.15	70	2.76
FD83-2046-32-32	11349026	2	2	NA	2" Hose barb EHW194 hose	2	156.8	6.17	105.3	4.15	-	-
FD83-2046-24-32	11349477	2	1 ½	NA	1 1/2" Hose Barb EHW194 hose	2	149.8	5.90	105.3	4.15	-	-
FD83-2046-20-32	11349492	2	1 ¼	NA	1 1/4" Hose Barb EHW194 hose	2	141.6	5.57	105.3	4.15	-	-
FD83-2128-32-32	FD83-2128-32-32	2	2	NA	Sanitary Flange 2"-DIN32676/ISO2852/BS4825	4	102.4	4.03	105.3	4.15	-	-
FD83-2052-32-32	FD83-2052-32-32	2	2	2-11-½	Female NPT	1	112.6	4.43	105.3	4.15	70	2.76
FD83-2092-32-32	11358296	2	2	NA	2" Hose barb EHW194 hose	6	155.2	6.11	105.3	4.15	-	-
FD83-2175-32-32	11369532	2	2	G2-11	Male BSPP ISO 1179-3	5	134.3	5.29	105.3	4.15	75	2.95
FD83-2168-16-16	11367128	1	1	N/A	1" 1G Crimp	8	102.8	4.05	71.6	2.82	-	-
FD83-2170-16-16	11367142	1	1	N/A	1" 1G Crimp	7	106.1	4.2	71.6	2.82	-	-
FD83-2170-32-32	11367130	2	2	N/A	2" 1G Crimp	7	148.3	5.84	105.3	4.15	-	-
FD83-2168-32-32	11367129	2	2	N/A	2" 1G Crimp	8	153.2	6.03	105.3	4.15	-	-

Other end connections available upon request.

UQD Series

Thermal Management Application



Danfoss Hansen UQD is designed for thermal management applications, available in 4 sizes and has 2 color options. It complies with OCP (Open Compute Project) and exceeds requirements of specified performance characteristics. Danfoss UQD offers color identification (red and blue) and guarantees 100% helium-leak testing.

Global region

Product Features

- Designed per OCP (Open Compute Project) UQD specification
- Push-to-connect design
- High flow and no spillage
- Double shut off - flat face valves
- Exceeds OCP flow ratings at least by 25% resulting in reduction in overall energy consumption
- Best in class force to connect
- Standard seal material: EPDM-P (Peroxide cured)
- Standard material: 303/304 stainless steel provides broad fluid compatibility
- Color anodized aluminum sleeves
- Color coded (red/blue) sleeves on socket and O-rings on plug
- Compact socket versions for sizes -02, -04, -06 to better fit in data center applications
- QR code identification to help track parts
- Wide range of terminal end options: ORB, BSPP on plug and push on hose on socket. Additional configurations available upon request
- Operating temperature: 5°C - 65°C (41°F - 149°F)
- Typical working pressure: 6.9 bar, up to 20 bar for smaller sizes
- All wetted o-rings/seals are qualified/ certified as per IEC/UL 62368-1 G.15.2.3



Physical characteristics

Size	Body Size	Nominal Flow Diameter	Max operating pressure						Min burst pressure						Rated Flow*	Cv Value	Air In-clusion	Fluid Loss
			Connected		Socket / Female Half		Plug / Male Half		Connected		Socket / Female Half		Plug / Male Half					
	(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	-	cc. max.	cc. max.
UQD02	⅛	3.16	20	290	20	290	20	290	60	870	60	870	60	870	2.1	0.6	0.33	0.007
UQD04	¼	6.3	16	232	16	232	16	232	48	696	48	696	48	696	6.4	1.7	1.37	0.01
UQD06	⅜	7.9	6.9	100	6.9	100	6.9	100	20.7	300	20.7	300	20.7	300	11.4	3.0	2.37	0.022
UQD08	½	10	8.9	129	6.9	100	6.9	100	20.7	300	20.7	300	20.7	300	17.8	4.7	5.32	0.03

* Defined per OCP specifications, Rated Flow is the reference flow rate used to measure pressure drop and determine the published Cv (flow coefficient).

UQD Series

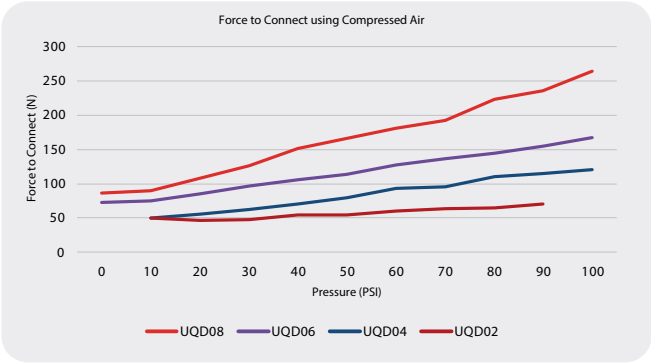
Global region

Size	Force to Connect		Performance Parameters Recommended Torque			
	N	lb	ORB size	N-m	BSP Size	N-m
UQD02	48	10.79	7/16-20	9-10	1/8"	8-9
UQD04	50	11.24	9/16-18	15-17	3/8"	18-20
UQD06	73	16.41	3/4-16	25-28	3/8"	18-20
UQD08	87	19.56	7/8-14	30-33	1/2"	34-37

Applications & Markets

- Liquid cooling application
- Data center application

Force to Connect vs Pressure

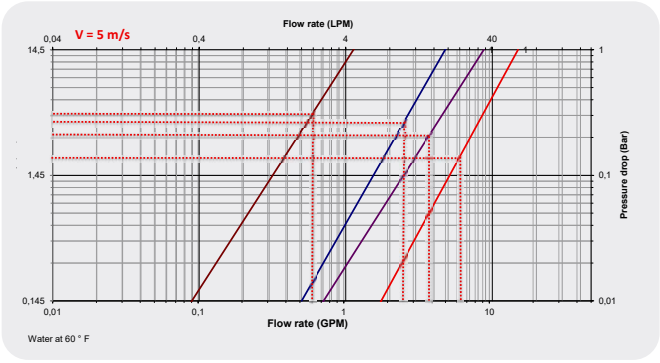


A reference flow rate corresponding to 5 m/s is widely adopted in industry to balance pressure drop and flow stability. While not the maximum allowable flow, it offers an optimal balance between system performance and component sizing.

Seal Elastomer Data

Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM-P	-40°C +150°C	-40°F +302°F

Flow Data



Size	Flow at 5m/s	Flow at 5 m/s
	(lpm)	(gpm)
UQD02	2.4	0.62
UQD04	9.4	2.5
UQD06	14.7	3.9
UQD08	23.6	6.2

UQD Series

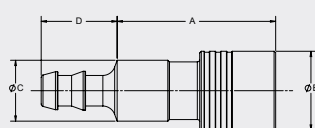


Figure 1
Push on socketless fitting

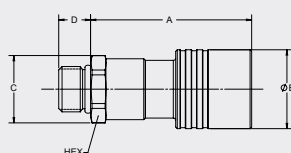


Figure 2
Male ORB

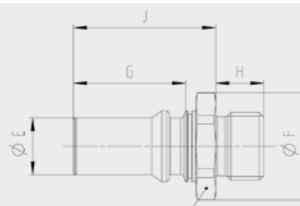


Figure 3
Male ORB ISO 11926-3

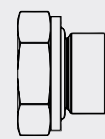


Figure 4
ISO 1179-3

Socket (Female) part

OCP UQD size	Part number	Order number	Material	Details		Fig.	Dimensions									
				Thread /end size	Hex		A	B	C	D	Hex					
				Hose Tail	ORB		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
UQD02	2UQS25HABLS11	2UQS25HABLS11	SS303	1/4	-	1	38,4	1,51	18,5	0,73	14,0	0,55	19,1	0,75	-	-
	2UQS25HARDS11	2UQS25HARDS11	SS303	1/4	-	1	38,4	1,51	18,5	0,73	14,0	0,55	19,1	0,75	-	-
UQD04	4UQS37HABLS11	4UQS37HABLS11	SS303	3/8	-	1	49,5	1,95	24,6	0,97	19,0	0,75	23,7	0,93	-	-
	4UQS37HARDS11	4UQS37HARDS11	SS303	3/8	-	1	49,5	1,95	24,6	0,97	19,0	0,75	23,7	0,93	-	-
	4UQS25HABLS11	4UQS25HABLS11	SS303	1/4	-	1	51,2	2,01	24,6	0,97	19,0	0,75	22	0,87	-	-
	4UQS25HARDS11	4UQS25HARDS11	SS303	1/4	-	1	51,2	2,01	24,6	0,97	19,0	0,75	22	0,87	-	-
UQD06	4UQS56ORMBLS11	4UQS56ORMBLS11	SS303	-	9/16	2	50,3	1,98	24,6	0,97	21	0,83	9,9	0,39	19	0,75
	4UQS56ORMRDS11	4UQS56ORMRDS11	SS303	-	9/16	2	50,3	1,98	24,6	0,97	21	0,83	9,9	0,39	19	0,75
	6UQS50HABLS11	6UQS50HABLS11	SS303	1/2	-	1	52,3	2,06	27,8	1,10	23	0,9	25,8	1,01	-	-
	6UQS50HARDS11	6UQS50HARDS11	SS303	1/2	-	1	52,3	2,06	27,8	1,10	23	0,9	25,8	1,01	-	-
UQD08 V2	6UQS75ORMBLS11	11348377	SS303	-	3/4	2	52,5	2,06	27,9	1,09	22	0,87	11,1	0,44	22	0,86
	6UQS75ORMRDS11	11348376	SS303	-	3/4	2	52,5	2,06	27,9	1,09	22	0,87	11,1	0,44	22	0,86
	8UQS62HABLS11	11368547	SS303	5/8	-	1	62,05	2,44	31,5	1,24	28	1,1	39	1,54	-	-
	8UQS62HARDS11	11368540	SS303	5/8	-	1	62,05	2,44	31,5	1,24	28	1,1	39	1,54	-	-
	ML8UQS62HABLS11	11368473	SS304													
	ML8UQS62HABLS11	11368468	SS304													

Note 1: To obtain connected length of coupling, add dimensions A (Fig. 1) and D (Fig. 2) together.

Note 2: For color options, RD suffix corresponds to RED and BL suffix to BLUE.

Plug (Male) part

OCP UQD size	Part number	Order number	Material	Details						Dimensions								
				Thread /end size		Fig.	E		F		G		H		J		Hex	
				BSP	ORB		n°	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		(in)
UQD02	2UQP43ORMBL 2UQP43ORMRD	2UQP43ORMBL 2UQP43ORMRD	SS303	-	7/16-20	3	6.65	0.26	16.17	0.64	8.7	0.34	9.1	0.36	29.3	1.15	14	0.55
	2UQP12MBSBL 2UQP12MBSRD	2UQP12MBSBL 2UQP12MBSRD	SS303	1/8	-	4	6.65	0.26	17.32	0.68	8.7	0.34	8	0.31	30.4	1.20	15	0.59
UQD04	4UQP56ORMBL 4UQP56ORMRD	4UQP56ORMBL 4UQP56ORMRD	SS303	-	9/16-18	3	11.07	0.44	19.63	0.77	9.8	0.39	9.9	0.39	37.9	1.49	17	0.67
	4UQP37MBSBL 4UQP37MBSRD	4UQP37MBSBL 4UQP37MBSRD	SS303	3/8	-	4	11.07	0.44	25.40	1.00	9.8	0.39	11.2	0.44	37.9	1.49	22	0.87
UQD06	6UQP75ORMBL 6UQP75ORMRD	6UQP75ORMBL 6UQP75ORMRD	SS303	-	3/4-16	3	14.3	0.56	25.40	1.00	10	0.39	11.1	0.44	41.6	1.64	22	0.87
	6UQP37MBSBL 6UQP37MBSRD	6UQP37MBSBL 6UQP37MBSRD	SS303	3/8	-	4	14.3	0.56	25.40	1.00	10	0.39	11.2	0.44	41.6	1.64	22	0.87
UQD08 V2	8UQP870MRD S11 8UQP870RMBLS11 ML8UQP870MRD S11 ML8UQP870RMBLS11	12029056 12029057 11368458 11368440	SS303 SS303 SS304 SS304	-	7/8-14	3	17.48	0.69	30	1.18	33.8	1.33	12.7	0.50	42.9	1.69	27	1.06
	8UQP50MBSRD S11 8UQP50MBSBLS11 ML8UQP50MBSRD S11 ML8UQP50MBSBLS11	11368541 11368548 11358746 11358734	SS303 SS303 SS304 SS304	1/2	-	4	17.48	0.69	33	1.30	33.8	1.33	14.5	0.57	42.9	1.69	30	1.18

Note 1: For color options, RD suffix corresponds to RED and BL suffix to BLUE.

UQDB Series

Blind-Mate Couplings



Danfoss Hansen Universal Quick Disconnect Blind-Mate (UQDB) has been designed with OCP (Open Compute Project) community to set industry standard for thermal management application in data centers. This quick disconnect coupling is available in 4 different sizes (as the UQD: -02/-04/-06/-08) and complies with OCP specification requirements. Danfoss UQDB offers a self-alignment feature to help connect in location with limited access or visibility and guarantees 100% helium-leak testing on every coupling.

Product Features and Benefits

- Designed per OCP UQDB specifications
- "Blind-connection" thanks to self-alignment feature with radial compensation of 1 mm
- Push-to-connect design
- Direct connection between servers and manifolds
- High flow and reduced pressure drop for an improved system efficiency
- Flat-face dry break design to avoid spillage during connection/ disconnection
- Sizes available: -02/-04/-06/-08
- High reliability and 100% helium-leak tested
- Standard material: 303/304 stainless steel for excellent corrosion resistance
- Standard seal material: EPDM-P (Peroxide cured) for excellent fluid compatibility
- Terminal ends are ORB
- Operating temperature: 5°C - 65°C (41°F - 149°F)
- Typical working pressure: 6.9 bar
- QR code marking to help identify and track production parts
- All wetted o-rings/seals are qualified/ certified as per EC/UL 6268-1 G.15.2.3



Physical characteristics

Size	Body Size	Nominal Flow Diameter	Max operating pressure						Min burst pressure						Rated Flow*	Cv Value	Air Inclusion	Fluid Loss	Mis-alignment (radial)	
			Connected		Socket / Female Half		Plug / Male Half		Connected		Socket / Female Half		Plug / Male Half							
	(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	-	cc. max.	cc. max.	(mm)
UQDB02	⅛	3.15	20	290	20	290	20	290	60	870	60	870	60	870	2.1	0.55	0.31	0.04	0.02	1
UQDB04	¼	5.7	16	232	16	232	16	232	48	696	48	696	48	696	6.4	1.7	1.22	0.04	0.025	1
UQDB06	⅜	7.9	10	145	10	145	10	145	30	435	30	435	30	435	11.36	3.0	2.23	0.093	0.035	1
UQDB08	½	9.3	6.89	100	6.89	100	6.89	100	20.68	300	20.68	300	20.68	300	17.8	4.7	3.76	0.096	0.044	1

* Defined per OCP specifications, Rated Flow is the reference flow rate used to measure pressure drop and determine the published Cv (flow coefficient).

UQDB Series

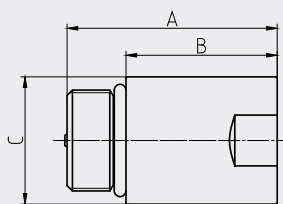


Figure 1
Socket

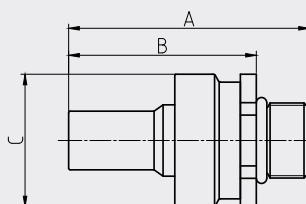


Figure 2
Plug

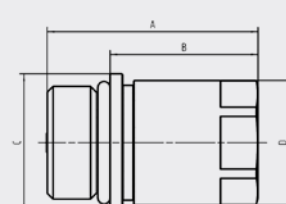


Figure 3
Socket

Dimensions

OCP UQDB size	Part number	Order number	Part	Material	Details	Fig.	Dimensions				E2E length					
					Thread/size		A		B		C		D			
					ORB		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
UQDB02	2UQBS56ORM	2UQBS56ORM	Socket	SS303	⅝-18	1	33.60	1.32	23.6	0.93	20	0.79		35.8 - 37.2	1.41 - 1.47	
UQDB02	2UQBP44ORM	2UQBP44ORM	Plug	SS303	⅝-20	2	36.10	1.42	27	1.06	20	0.79				
UQDB04	4UQBS75ORM	4UQBS75ORM	Socket	SS303	¾-16	1	39.60	1.55	28.5	1.12	23.6	0.92		44.0 - 45.4	1.73 - 1.79	
UQDB04	4UQBP56ORM	4UQBP56ORM	Plug	SS303	⅝-18	2	45.32	1.78	35.3	1.39	25	0.98				
UQDB06	6UQBS87ORM	6UQBS87ORM	Socket	SS303	⅞-14	1	44.40	1.74	31.7	1.24	28.4	1.11		47.5 - 48.9	1.87 - 1.93	
UQDB06	6UQBP75ORM	6UQBP75ORM	Plug	SS303	¾ -16	2	49.90	1.96	38.9	1.53	28.4	1.11				
UQDB08 v2	8UQBS106ORMV2	11367197	Socket	SS303	1 ⅝-12	3	50.66	2.00	35.56	1.40	33	1.30	29.8	1.17	50.9-51.9	2.00-2.04
UQDB08 v2	8UQBS106ORMV2	11368123	Socket	SS304	1 ⅝-12	3	50.66	2.00	35.56	1.40	33	1.30	29.8	1.17	50.9-51.9	2.00-2.04
UQDB08	8UQBP87ORM	8UQBP87ORM	Plug	SS303	⅞-14	2	55.60	2.19	42.9	1.69	31.3	1.23		51.8 – 53.2	2.04 - 2.09	

Size	Force to Connect		Performance Parameters		Recommended Torque	
	N	lb	Plug ORB size	N.m	Socket ORB size	N.m
UQDB02	53	12	7/16-20 UNF-2A	9-10	7/16-18 UNF-2A	15-17
UQDB04	62	14	7/16-18 UNF-2A	15-17	3/4-16 UNF-2A	25-28
UQDB06	67	15	3/4-16 UNF-2A	25-28	7/8-14 UNF-2A	30-33
UQDB08	71	16	7/8-14 UNF-2A	30-33	1 1/16-12 UN-2A	48-53

Applications & Markets

- Direct-to-chip liquid cooling
- Thermal management

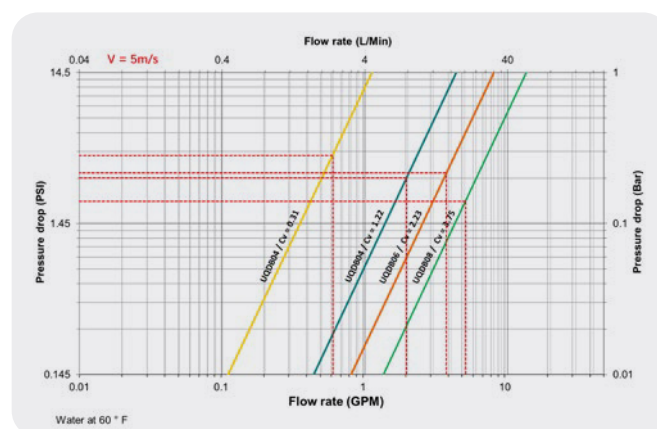
Seal Elastomer Data

Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM-P	-40°C +150°C	-40°F +302°F

A reference flow rate corresponding to 5 m/s is widely adopted in industry to balance pressure drop and flow stability.

While not the maximum allowable flow, it offers an optimal balance between system performance and component sizing.

Flow Data



Size	Flow at 5m/s	Flow at 5 m/s
	(lpm)	(gpm)
UQDB02	2.3	0.60
UQDB04	7.8	2.0
UQDB06	14.7	3.9
UQDB08	20.6	5.4

MQD/MQDB Series



Danfoss Hansen MQD and MQDB are designed for single-phase (water/glycol) systems for liquid cooling of electronics. This product is compliant to NVIDIA Quick Disconnect (MQD & MQDB) Specification 3.2 and can be interchanged with vendors compliant to this specification. Offered with ISO 11926-3 O-ring boss, BSPP and hose tail terminal ends.

Product Features

- Stainless steel 304 material and EPDM seals
- Color identification (red and blue) for hand mate MQD
- Available in 3 different sizes (MQD02, MQD03, MQD04)
- All parts are 100 % helium-leak tested
- Operating temperature range :
-40° C to +150 ° C (-40°F to 302°F)

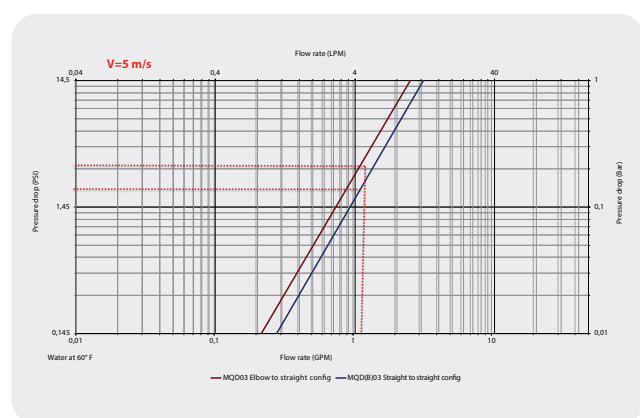
Physical characteristics

Body Size	Nominal flow diameter	Max. Operating Pressure		Min. Burst Pressure		Rated Flow		Force to connect	Fluid Loss
(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	N max.	cc. max.
MQD02	3.3	7	100	21	300	2.04	0.55	51	0.02
MQD03	4.9	7	100	21	300	4.54	1.2	55	0.023
MQD04	6.4	7	100	21	300	6.81	1.8	63	0.025

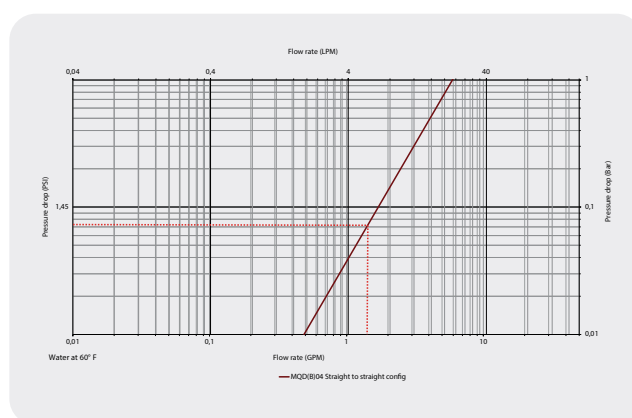
Applications & Markets

- Technology Cooling System (TCS) for Electronics
- Data Center Liquid Cooling

Flow Data MQ03



Flow Data MQ04



MQD/MQDB Series

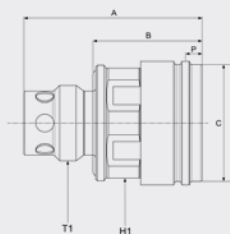


Figure 1

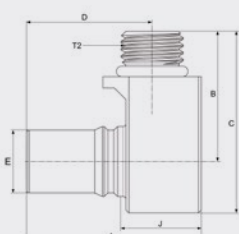


Figure 2

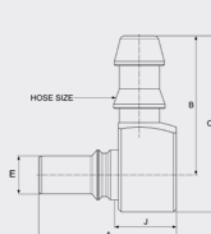


Figure 3

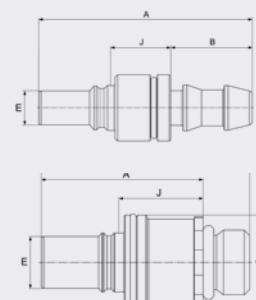


Figure 4 (a, b)

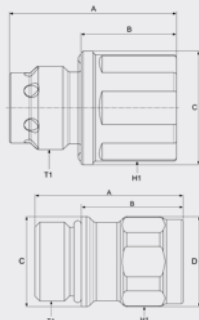


Figure 5 (a, b)

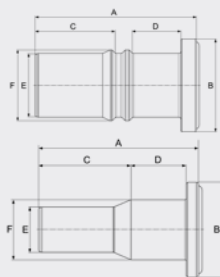


Figure 6 (a, b)

Series Description	Order Number	Part Number	Color	Nom Flow dia	End Type	Dimensions										Fig
						A	B	C	D	E	F	J	H1	H2	H3	
				(mm)	T1/T2/T3/HOSE SIZE	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
Hand Mate Socket	12022881	ML2MQS43RD	RED	3.3	7/16-20 UNF 2A	25.67	15.37	18.00	-	-	-	-	15.9	-	-	1
	12022882	ML2MQS43BL	BLUE	3.3	7/16-20 UNF 2A	25.67	15.37	18.00	-	-	-	-	15.9	-	-	1
Hand Mate Plug, elbow	12022869	ML2MQPEL9025HCRD	RED	3.3	Hose barb -04 size	24.20	24.50	31.00	17.7	6.65	-	10.50	-	-	-	3
	12022870	ML2MQPEL9025HCBL	BLUE	3.3	Hose barb -04 size	24.20	24.50	31.00	17.7	6.65	-	10.50	-	-	-	3
Hand Mate Plug, straight	12022900	ML2MQP25HCRD	RED	3.3	Hose barb -04 size	39.20	15.00	-	-	6.65	-	10.50	-	-	-	4a
	12022901	ML2MQP25HCBL	BLUE	3.3	Hose barb -04 size	39.20	15.00	-	-	6.65	-	10.50	-	-	-	4a
Blind Mate, Socket	12022898	ML2MQBS43	-	3.3	7/16-20 UNF 2A	25.90	15.60	16.85	-	-	-	-	15.9	-	-	5a
Blind Mate, Plug	12022907	ML2MQBP	-	3.3	Floating Body	23.40	13.90	13.50	8.5	6.65	8.8	-	-	-	-	6a
Hand Mate Socket	11359567	ML3MQS25MBSRD	RED	4.9	G 1/4-19 BSPP	25.25	14.45	18.00	-	-	-	-	17.0	-	-	1
	11359568	ML3MQS25MBSBL	BLUE	4.9	G 1/4-19 BSPP	25.25	14.45	18.00	-	-	-	-	17.0	-	-	1
Hand Mate Plug, elbow	11359572	ML3MQPEL9043ORMRD	RED	4.9	7/16-20 UNF 2A	26.00	20.00	28.00	17.9	8.8	-	12.40	-	-	-	2
	11359557	ML3MQPEL9043ORMBL	BLUE	4.9	7/16-20 UNF 2A	26.00	20.00	28.00	17.9	8.8	-	12.40	-	-	-	2
	11359559	ML3MQPEL9025HCRD	RED	4.9	Hose barb -04 size	26.00	24.50	32.50	17.9	8.8	-	12.40	-	-	-	3
	11359583	ML3MQPEL9025HCBL	BLUE	4.9	Hose barb -04 size	26.00	24.50	32.50	17.9	8.8	-	12.40	-	-	-	3
Hand Mate Plug, straight, hose tail	11359564	ML3MQP43ORMRD	RED	4.9	7/16-20 UNF 2A	35.40	27.50	16.10	-	8.8	-	13.90	-	15.0	-	4b
	11359565	ML3MQP43ORMBL	BLUE	4.9	7/16-20 UNF 2A	35.40	27.50	16.10	-	8.8	-	13.90	-	15.0	-	4b
	11359561	ML3MQP25MBSRD	RED	4.9	G 1/4-19 BSPP	39.00	31.00	-	-	8.8	-	17.40	-	-	15.0	4b
	11359584	ML3MQP25MBSBL	BLUE	4.9	G 1/4-19 BSPP	39.00	31.00	-	-	8.8	-	17.40	-	-	15.0	4b
Blind Mate, Socket	11359563	ML3MQBS25MBS	-	4.9	G 1/4-19 BSPP	25.25	14.45	18.00	-	-	-	-	16.0	-	-	5a
Blind Mate, Plug	11359569	ML3MQBP	-	4.9	Floating Body	23.40	14.10	11.10	8.1	8.8	10.00	-	-	-	-	6b
Hand Mate Socket	11345074	ML4MQS37MBSRD	RED	6.4	G 3/8-19 BSPP	31.60	21.80	21.00	-	-	-	-	20.0	-	-	1
	11345075	ML4MQS37MBSBL	BLUE	6.4	G 3/8-19 BSPP	31.60	21.80	21.00	-	-	-	-	20.0	-	-	1
Hand Mate Plug, elbow	11345040	ML4MQPEL9043ORMRD	RED	6.4	7/16-20 UNF 2A	30.75	22.95	32.00	22.1	11.07	-	13.25	-	-	-	2
	11345067	ML4MQPEL9043ORMBL	BLUE	6.4	7/16-20 UNF 2A	30.75	22.95	32.00	22.1	11.07	-	13.25	-	-	-	2
Hand Mate Plug, straight	11345073	ML4MQP43ORMRD	RED	6.4	7/16-20 UNF 2A	30.50	38.50	18.10	-	11.07	-	13.00	-	17.0	-	4b
	11345061	ML4MQP43ORMBL	BLUE	6.4	7/16-20 UNF 2A	30.50	38.50	18.10	-	11.07	-	13.00	-	17.0	-	4b
Blind Mate, Socket	11345082	ML4MQBS37MBS	-	6.4	G 3/8-19 BSPP	31.30	21.50	21.60	-	-	-	-	19.0	-	-	5b
Blind Mate, Plug	11345092	ML4MQBP	-	6.4	Floating Body	28.60	16.10	14.30	8.6	11.07	12.30	-	-	-	-	6a
Blind Mate, Compact Socket	11369766	ML4MQBS37MBS11	-	6.4	G 3/8-19 BSPP	31.30	21.50	19.00	19.0	-	-	-	17.9	-	-	5b

Connected Length for Hand mate mounting face on socket to mounting face on plug = B+J

Refer MQD spec for more details

OCP ORV3 BMQC Series

Blind Mate Quick Connector



Danfoss Hansen OCP Open Rack V3 Blind Mate Quick Connector (BMQC) has been designed with OCP (Open Compute Project) community to set industry standard for thermal management application in data centers. This quick disconnect coupling is available in size 5mm and complies with OCP specification requirements. Danfoss BMQC offers a self-alignment feature to help connect in location with limited access or visibility and guarantees 100% helium-leak testing on every coupling.

Product Features and Benefits

- Designed together with OCP and complies with product specifications
- "Blind-connection" thanks to self-alignment feature with angular and radial compensation:
- +/- 5 mm of pure radial offset between the socket axis and the plug cup axis
- +/- 2.7° of angular offset
- Push-to-connect design
- Direct connection between servers and manifolds
- Static force to connect is max. 99.3 N
- Static force to connect dry is max. 66.71 N
- Dynamic force to connect is max. 120 N max @ 40 mm/sec
- Performance validated up-to 400 mm/sec
- High flow and reduced pressure drop for an improved system efficiency
- Flat-face dry break design to avoid spillage during connection/ disconnection
- High reliability and 100% helium-leak tested
- Danfoss unique patented centering mechanism. This allows end-user to use different types of hoses and a low force to connect.
- Standard material: 303 stainless steel for excellent corrosion resistance
- Standard seal material: EPDM-P (Peroxide cured) for excellent fluid compatibility
- Terminal ends are ORB for socket part and hose tail for plug part
- Operating temperature: 10°C - 65°C (50°F - 149°F)
- Working pressure: 2.4 bar (OCP is checking to increase the pressure – work is in progress)
- All wetted o-rings/seals are qualified/ certified as per IEC/ UL 6268-1 G.15.2.3

Physical characteristics



Size (in)	Working Pressure		Min. Burst Pressure		Misalignment mm	Angular misalignment degree	Rated Flow		Cv Value*	Torque N/m
	(bar)	(psi)	(bar)	(psi)			(lpm)	(gpm)		
5	2.4	35	13.8	200	+/-5	+/-2.7	6	1.6	1.04	40 +/-5 (socket) 25 +/-5 (plug)

*Using PG25, at 40°C.

OCP ORV3 BMQC Series

Global region

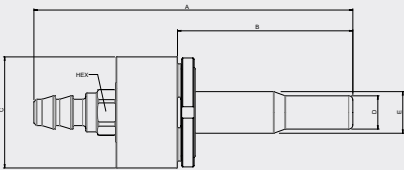


Figure 1
Plug

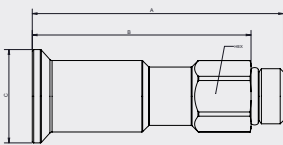


Figure 2
Socket

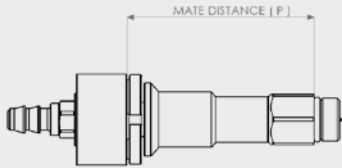


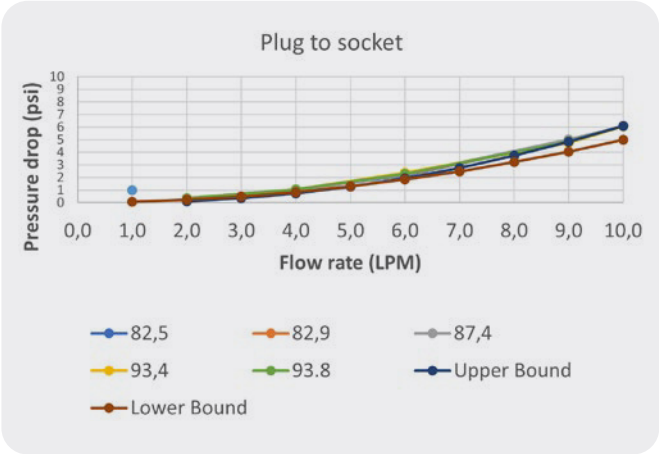
Figure 3
Connected

P = min 82,9 mm / max. 93,4 mm

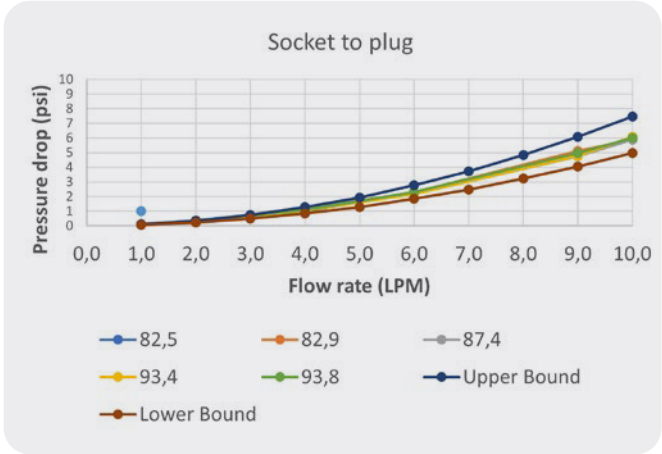
Dimensions

Part/Order Number	End connection			Fig.	Dimensions									
	Part	End type	Thread size		A	B	C	D	E	Hex				
					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
12001795	Plug	Hose barb	-6	1	115,6	4,55	67,7	2,66	40	1,57	12	0,59	15	0,47
12001797	Socket	ORB	3/4 -16 UNF 2A	2	86,1	3,39	75	2,95	32	1,25	-	-	-	22

Flow Data



Flow Data



Applications & Markets

- Liquid cooling application
- Data center application

Seal Elastomer Data

Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM-P	-40°C +150°C	-40°F +302°F

Flo-Temp Series

Thermal Management Application



Danfoss' Flo-Temp™ quick disconnect couplings provide the flow needed to cool or heat molds and die casting dies. Sockets are available non-valved for maximum flow and valved to prevent fluid loss when disconnected. Flo-Temp couplings can be used with water-glycol, hot water and hot oil.

AMER region

Product Features

- Non valved straight through models for maximum flow
- Valved sockets/females for automatic shut-off when line is disconnected
- Sockets/Females available with straight, 90° or 45° hose stems or without hose stem
- Brass plugs/males with male pipe thread for recessed mounting to avoid damage to plugs/males when molds are being changed or stored.
- Standard body material: Brass

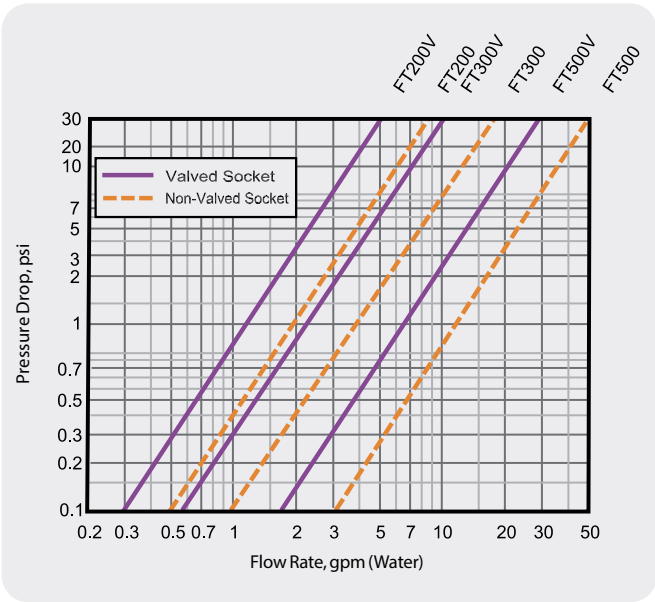
Physical characteristics

Series	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
¼	14	200	56	800	8.3	2.2
¾	14	200	56	800	17	4.5
½	14	200	56	800	49	13

Applications & Markets

- Injection Molding
- Heating and Cooling

Flow Data



Flo-Temp Series

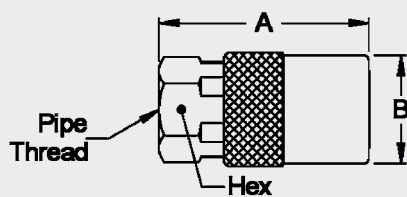


Figure 1

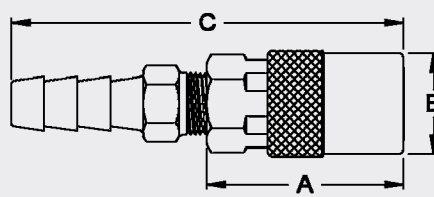


Figure 2

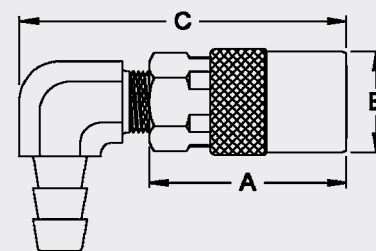


Figure 3

Without Hose Stem

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
LNFT200	Socket/Female	¼	⅜	⅛-27	NPTF	1	42.7	1.68	17.0	0.67	14.2	0.56
LNFT300	Socket/Female	⅜	¼	¼-18	NPTF	1	55.4	2.18	22.6	0.89	19.1	0.75
LNFT500	Socket/Female	½	½	½-14	NPTF	1	50.8	2.00	29.7	1.17	28.7	1.13

Straight Hose Stem

Part/Order Number		Coupling Type	Body Size	Type	Hose I.D.	Fig.	Dimensions					
Non-Valved	Valved						A		B		C	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FTS204	FTS204V	Socket/Female	¼	Hose Stem	¼	2	30.5	1.20	17.0	0.67	57.2	2.25
FTS204HP*	FTS204VHP*	Socket/Female	¼	Hose Stem	¼	2	30.5	1.20	17.0	0.67	53.1	2.09
FTS205	FTS205V	Socket/Female	¼	Hose Stem	⅝	2	30.5	1.20	17.0	0.67	53.1	2.09
FTS206	FTS206V	Socket/Female	¼	Hose Stem	⅜	2	30.5	1.20	17.0	0.67	57.2	2.25
FTS206HP*	–	Socket/Female	¼	Hose Stem	⅜	2	30.5	1.20	17.0	0.67	59.4	2.34
FTS306	FTS306V	Socket/Female	⅜	Hose Stem	⅜	2	40.6	1.60	23.1	0.91	68.1	2.68
FTS306HP*	FTS306VHP*	Socket/Female	⅜	Hose Stem	⅜	2	40.9	1.61	22.6	0.89	69.9	2.75
FTS308	FTS308V	Socket/Female	⅜	Hose Stem	½	2	40.9	1.61	22.4	0.88	71.6	2.82
FTS308HP*	FTS308VHP*	Socket/Female	⅜	Hose Stem	½	2	40.9	1.61	22.4	0.88	71.6	2.82
FTS504	FTS504V	Socket/Female	½	Hose Stem	½	2	57.2	2.25	30.0	1.18	86.9	3.42
FTS504HP*	FTS504VHP*	Socket/Female	½	Hose Stem	½	2	57.2	2.25	30.0	1.18	91.9	3.62
FTS506	FTS506V	Socket/Female	½	Hose Stem	¾	2	56.4	2.22	30.0	1.18	97.8	3.85
FTS506HP*	FTS506VHP*	Socket/Female	½	Hose Stem	¾	2	56.4	2.22	30.0	1.18	110.5	4.35

*Part numbers with HP suffix have pushon hose barb. All other FTS parts numbers have standard hose barb.

90° Hose Stem

Part/Order Number		Coupling Type	Body Size	Type	Hose I.D.	Fig.	Dimensions					
Non-Valved	Valved						A		B		C	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FTS214	FTS214V	Socket/Female	¼	Hose Stem	¼	3	34.5	1.36	17.0	0.67	55.1	2.17
FTS214HP*	FTS214VHP*	Socket/Female	¼	Hose Stem	¼	3	30.0	1.18	17.0	0.67	44.7	1.76
FTS215	FTS215V	Socket/Female	¼	Hose Stem	⅝	3	30.0	1.18	17.0	0.67	44.7	1.76
FTS216	FTS216V	Socket/Female	¼	Hose Stem	⅜	3	29.7	1.17	17.0	0.67	44.7	1.76
FTS216HP*	FTS216VHP*	Socket/Female	¼	Hose Stem	⅜	3	29.7	1.17	17.0	0.67	44.7	1.76
FTS316	FTS316V	Socket/Female	⅜	Hose Stem	⅜	3	40.6	1.60	22.4	0.88	61.7	2.43
FTS316HP*	FTS316VHP*	Socket/Female	⅜	Hose Stem	⅜	3	40.6	1.60	22.4	0.88	61.7	2.43
FTS318	FTS318V	Socket/Female	⅜	Hose Stem	½	3	40.6	1.60	22.4	0.88	61.7	2.43
FTS318HP*	FTS318VHP*	Socket/Female	⅜	Hose Stem	½	3	40.6	1.60	22.4	0.88	61.7	2.43

*Part numbers with HP suffix have pushon hose barb. All other FTS parts numbers have standard hose barb.

Flo-Temp Series

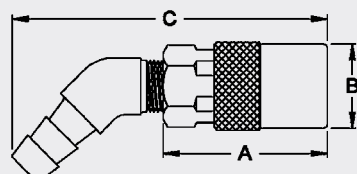


Figure 4

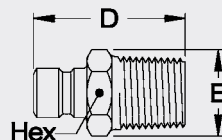


Figure 5

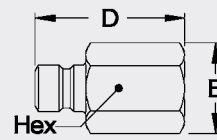


Figure 6

45° Hose Stem

Part/Order Number		Coupling Type	Body Size	Type	Hose I.D.	Fig.	Dimensions					
Non-Valved	Valved						A	B		C		
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FTS224	FTS224V	Socket/Female	1/4	Hose Stem	1/4	4	29.7	1.17	17.0	0.67	61.0	2.40
FTS224HP*	FTS224VHP*	Socket/Female	1/4	Hose Stem	1/4	4	29.7	1.17	17.0	0.67	61.0	2.40
FTS225	FTS225V	Socket/Female	1/4	Hose Stem	5/16	4	29.7	1.17	17.0	0.67	61.0	2.40
FTS226	FTS226V	Socket/Female	1/4	Hose Stem	3/8	4	29.7	1.17	17.0	0.67	61.0	2.40
FTS226HP*	FTS226VHP*	Socket/Female	1/4	Hose Stem	3/8	4	29.7	1.17	17.0	0.67	61.0	2.40
FTS326	FTS326V	Socket/Female	3/8	Hose Stem	3/8	4	45.7	1.80	22.9	0.90	94.0	3.70
FTS326HP*	FTS326VHP*	Socket/Female	3/8	Hose Stem	3/8	4	45.7	1.80	22.9	0.90	80.5	3.17
FTS328	FTS328V	Socket/Female	3/8	Hose Stem	1/2	4	40.6	1.60	22.9	0.90	80.5	3.17
FTS328HP*	FTS328VHP*	Socket/Female	3/8	Hose Stem	1/2	4	40.6	1.60	22.9	0.90	80.5	3.17

*Part numbers with HP suffix have pushon hose barb. All other FTS parts numbers have standard hose barb.

Male Pipe Thread

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions				Installation Recess					
							A	B	C	DIA	Depth					
							(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
FTP251	Plug/Male	1/4	1/8	1/8-27	NPTF	5	23.9	0.94	12.4	0.49	11.2	0.44	17.5	0.69	17.5	0.69
FTP251BST	Plug/Male	1/4	1/8	1/8-28	BSPT	5	23.9	0.94	12.4	0.49	11.2	0.44	17.5	0.69	17.5	0.69
FTP252	Plug/Male	1/4	1/4	1/4-18	NPTF	5	29.2	1.15	16.0	0.63	14.2	0.56	21.3	0.84	23.9	0.94
FTP252BST	Plug/Male	1/4	1/4	1/4-19	BSPT	5	29.2	1.15	16.0	0.63	14.2	0.56	21.3	0.84	23.9	0.94
FTP253	Plug/Male	1/4	3/8	3/8-18	NPTF	5	30.2	1.19	19.6	0.77	17.5	0.69	25.4	1.00	23.9	0.94
FTP352	Plug/Male	3/8	1/4	1/4-18	NPTF	5	35.6	1.40	16.0	0.63	14.2	0.56	25.4	1.00	27.7	1.09
FTP352BST	Plug/Male	3/8	1/4	1/4-19	BSPT	5	35.6	1.40	16.0	0.63	14.2	0.56	25.4	1.00	27.7	1.09
FTP353	Plug/Male	3/8	3/8	3/8-18	NPTF	5	35.6	1.40	19.6	0.77	17.5	0.69	25.4	1.00	28.7	1.13
FTP353BST	Plug/Male	3/8	3/8	3/8-19	BSPT	5	35.6	1.40	19.6	0.77	17.5	0.69	25.4	1.00	28.7	1.13
FTP354	Plug/Male	3/8	1/2	1/2-14	NPT F	5	39.6	1.56	24.9	0.98	22.4	0.88	30.2	1.19	31.8	1.25
FTP554	Plug/Male	1/2	1/2	1/2-14	NPTF	5	44.5	1.75	24.9	0.98	22.4	0.88	31.8	1.25	38.1	1.50
FTP556	Plug/Male	1/2	3/4	3/4-14	NPTF	5	44.5	1.75	31.8	1.25	28.7	1.13	38.1	1.50	39.6	1.56

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							D	E	Hex			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FTP251F	Plug/Male	1/4	1/8	1/8-27	NPTF	6	25.4	1.00	14.7	0.58	12.7	0.50
FTP251FBS	Plug/Male	1/8	1/8	1/8-28	BSPT	6	25.4	1.00	16.5	0.65	14.2	0.56
FTP252F	Plug/Male	1/4	1/4	1/4-18	NPTF	6	30.5	1.20	18.3	0.72	16.0	0.63
FTP252FBS	Plug/Male	1/4	1/4	1/4-19	BSPT	6	30.5	1.20	22.1	0.87	19.1	0.75
FTP253F	Plug/Male	1/4	3/8	3/8-18	NPTF	6	31.8	1.25	22.1	0.87	19.1	0.75
FTP352F	Plug/Male	3/8	1/4	1/4-18	NPTF	6	35.1	1.38	18.3	0.72	16.0	0.63
FTP352FBS	Plug/Male	1/4	1/4	1/4-19	BSPT	6	32.5	1.28	22.1	0.87	19.1	0.75
FTP353F	Plug/Male	3/8	3/8	3/8-18	NPTF	6	35.6	1.40	22.1	0.87	19.1	0.75
FTP354F	Plug/Male	3/8	1/2	1/2-14	NPTF	6	41.1	1.62	27.4	1.08	23.9	0.94
FTP554F	Plug/Male	1/2	1/2	1/2-14	NPTF	6	43.7	1.72	27.4	1.08	23.9	0.94
FTP556F	Plug/Male	1/2	3/4	3/4-14	NPTF	6	45.2	1.78	33.0	1.30	28.7	1.13

Couplings for refrigerant applications



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5400 Series Low Air Inclusion Refrigerant

Refrigerant Application



Danfoss Hansen 5400 Series low air inclusion product line is designed for air conditioning, refrigerant, gaseous and fluid transfer applications.

Global region

Product Features

- Brazed or threaded end connections for versatility of installation on tubing or hose
- Tubular valve construction for low fluid loss and air inclusion
- The thread-to-connect design allows connection and disconnection under residual pressure of 17 bar
- Lock washer and jam nut standard for optional bulkhead mounting
- Standard seal material: Neoprene
- Dura-Kote™ plating for excellent corrosion resistance

Agency approval: UL Mark, file number: SA16088

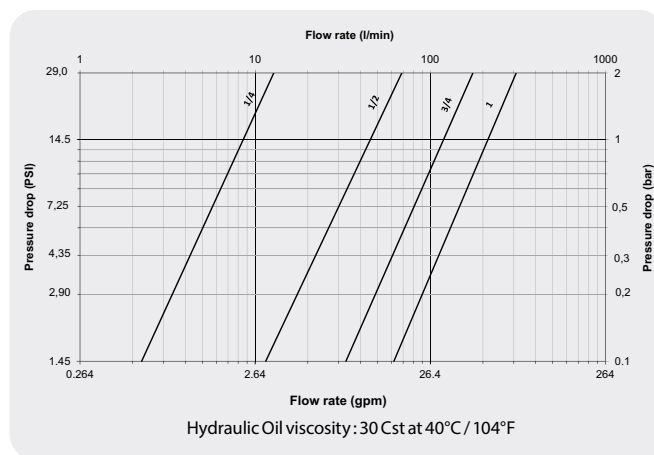
Physical characteristics

Coupling Size	Max. Operating Pressure Connected		Min. Burst Pressure Connected		Max. Operating Pressure Disconnected Male Half		Max. Operating Pressure Disconnected Female Half		Vacuum Connected	Rated Flow		Air Inclusion	Fluid Loss
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc.max.	cc.max.
1/4	207	3,000	621	9,000	172	2,500	52	754	28	8	2	0.10	0.05
1/2	121	1,750	359	5,200	121	1,750	52	754	28	53	14	0.10	0.10
3/4	48	700	145	2,100	48	700	45	652	28	132	35	0.30	0.10
1	48	700	145	2,100	48	700	21	300	28	284	75	0.50	0.20

Applications & Markets

- Mobile air conditioning and refrigerant
- Thermal management

Flow Data



5400 Series Low Air Inclusion Refrigerant

Male Coupling Half (S2)

Female Coupling Half (S5)

See table "Dimension - No adapter"

Coupling half + SAE 37° (JIC) adapter
or
Coupling half + Braze Tubing adapter

Coupling half + SAE 37° (JIC) adapter
or
Coupling half + Braze Tubing adapter

See table "Dimension - SAE 37° (JIC)"

See table: "Dimension - Braze Tubing adapter"

Item number/adapters	1 Tubing adapter	2 Adapter O-ring	3 Poppet valve assembly	4 Male body	5 Gasket seal	6 Lock washer	7 Jam nut	8 Union nut and female body assembly	9 Female valve assembly
SAE 37° (JIC)	202208-Y-X								
Braze tubing	202208-Y-XB	22546-Z-X	5400-S20-X	5400-17-XS	22008-X	5400-54-XS	5400-52-XS	5400-S16-X	5400-S19-X
Hose fitting SAE 100R5	487-Y-XS								

Note 1: Replace "X", "Y" by size number chosen in below tables.

Note 2: "B" stands for Brass and "S" stands for Steel material – availability is presented in below tables.

Assembly Instructions

Steps:

- After tubing or hose has been connected to adapters ① and ⑩, install O-Rings ② and ⑪ on adapters. Be sure O-Rings are not twisted.
- Oil O-Rings ② and ⑪ liberally with system fluid to prevent them from scuffing and tearing when coupling body is threaded on adapter.
- 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".
S5 Half—Oil O-Ring ⑨ liberally with system fluid. Insert valve and sleeve assembly ⑩ into body ⑧. Tighten body ⑧ on adapter ⑩. After body and adapter make metal-to-metal contact, tighten by rotating body ⑧ 1/8".
- Coupling Connection—Lubricate gasket seal ⑤ on male half with system fluid. Thread lubricated union nut ⑨ on 5400-S2 half. Tighten union nut to torque values shown in table. Be sure male part and female part bodies do not rotate during connection.

Note: POE refrigeration oil for lubrication is recommended.

Note: Operating temperature: -40°C to 121°C / -104°F to -249,8°F.

Bulkhead Mounting—Male half (S2)

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 6 must be between hex of S2 half and bulkhead.

Maximum Bulkhead Thickness

Body size	Lock Washer Installed (in)	Lock Washer Not Used (in)
¼	0.206	0.256
½	0.136	0.203
¾	0.232	0.292
1	0.101	0.161

Torque Values

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

Dash Size	Adapter to Body 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.

5400 Series Low Air Inclusion Refrigerant

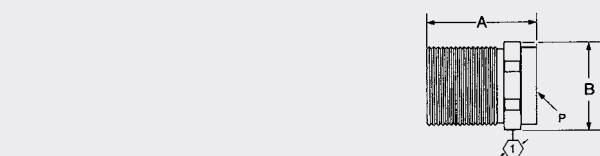


Figure 1

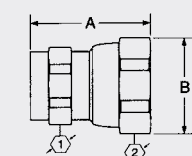


Figure 2

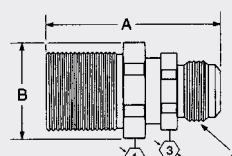


Figure 3

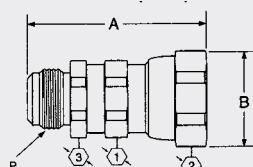


Figure 4

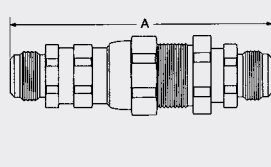


Figure 5

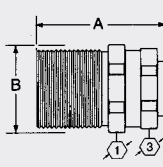


Figure 6

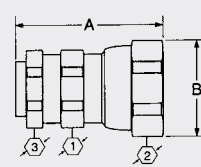


Figure 7

Dimensions – No Adapter

Part/Order Number Neoprene	Coupling Type	Body Size	Type	Dimensions										
				Fig.	A		B		Hex ①		Hex ②		Hex ③	
					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
5400-S2-4	Male	¼	No Adapter	1	27.4	1.08	21.1	0.83	19.1	0.75	-	-	-	-
5400-S5-4	Female	¼	No Adapter	2	28.7	1.13	21.1	0.83	16.0	0.63	19.1	0.75	-	-
5400-S2-8	Male	½	No Adapter	1	34.8	1.37	32.0	1.26	29.0	1.14	-	-	-	-
5400-S5-8	Female	½	No Adapter	2	40.6	1.60	33.0	1.30	26.0	1.02	30.0	1.18	-	-
5400-S2-12	Male	¾	No Adapter	1	44.2	1.74	46.4	1.83	41.0	1.64	-	-	-	-
5400-S5-12	Female	¾	No Adapter	2	55.1	2.17	45.0	1.77	35.0	1.38	41.0	1.61	-	-
5400-S2-16	Male	1	No Adapter	1	46.5	1.83	53.0	2.10	48.0	1.89	-	-	-	-
5400-S5-16	Female	1	No Adapter	2	61.1	2.41	56.0	2.20	45.0	1.77	50.0	1.97	-	-

Dimensions – SAE 37° (JIC)

Part/Order Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Dimensions										
						Fig.	A		B		Hex ①		Hex ②		Hex ③	
							(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
5400 S2-4	Male	¼	7⁄16	7⁄16-20	202220-4-4	3	47.8	1.88	21.1	0.83	19.1	0.75	-	-	16.0	0.63
5400 S5-4	Female	¼	7⁄16	7⁄16-20	202220-4-4	4	49.0	1.93	21.1	0.83	16.0	0.63	19.1	0.75	15.7	0.62
5400 S2-4	Male	¼	9⁄16	9⁄16-18	202220-6-8	3	48.0	1.89	21.1	0.83	19.1	0.75	-	-	16.0	0.63
5400 S5-4	Female	¼	9⁄16	9⁄16-18	202220-6-8	4	49.3	1.94	21.1	0.83	16.0	0.63	19.1	0.75	15.7	0.62
5400 S2-8	Male	½	9⁄16	9⁄16-18	202220-6-8	3	55.4	2.18	31.8	1.25	28.7	1.13	-	-	25.4	1.00
5400 S5-8	Female	½	9⁄16	9⁄16-18	202220-6-8	4	61.7	2.43	33.3	1.31	25.4	1.00	30.2	1.19	25.4	1.00
5400 S2-8	Male	½	¾	¾-16	202220-8-8	3	57.9	2.28	31.8	1.25	28.7	1.13	-	-	25.4	1.00
5400 S5-8	Female	½	¾	¾-16	202220-8-8	4	64.3	2.53	33.3	1.31	25.4	1.00	30.2	1.19	25.4	1.00
5400 S2-12	Male	¾	7⁄8	7⁄8-14	202220-10-12	3	69.9	2.75	46.5	1.83	41.4	1.63	-	-	35.1	1.38
5400 S5-12	Female	¾	7⁄8	7⁄8-14	202220-10-12	4	80.3	3.16	45.7	1.80	35.1	1.38	41.1	1.62	35.1	1.38
5400 S2-12	Male	¾	1 1⁄16	1 1⁄16-12	202220-12-12	3	72.6	2.86	46.5	1.83	41.4	1.63	-	-	35.1	1.38
5400 S5-12	Female	¾	1 1⁄16	1 1⁄16-12	202220-12-12	4	83.1	3.27	45.7	1.80	35.1	1.38	41.1	1.62	35.1	1.38
5400 S2-16	Male	1	1 5⁄16	1 5⁄16-12	202220-16-16	3	75.9	2.99	53.3	2.10	47.8	1.88	-	-	44.5	1.75
5400 S5-16	Female	1	1 5⁄16	1 5⁄16-12	202220-16-16	4	89.7	3.53	56.9	2.24	44.5	1.75	50.8	2.00	44.5	1.75

Note: See Adapter SAE 37° (JIC) table for corresponding O-ring and adapter material.

5400 Series Low Air Inclusion Refrigerant

Dimensions – No Adapter

Part/Order Number Neoprene	Coupling Type	Body Size	Tube O.D. Size	Type	Fig.	Dimensions									
						A		B		Hex ①		Hex ②		Hex ③	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
5400 S2-4	Male	¼	¼	202208-4-4	6	38.6	1.52	21.1	0.83	19.1	0.75	-	-	16.0	0.63
5400 S5-4	Female	¼	¼	202208-4-4	7	39.9	1.57	21.1	0.83	16.0	0.63	19.1	0.75	16.0	0.63
5400 S2-4	Male	¼	⅜	202208-6-4	6	38.6	1.52	21.1	0.83	19.1	0.75	-	-	16.0	0.63
5400 S5-4	Female	¼	⅜	202208-6-4	7	39.9	1.57	21.1	0.83	16.0	0.63	19.1	0.75	16.0	0.63
5400 S2-8	Male	½	⅜	202208-6-8	6	44.5	1.75	33.3	1.31	28.7	1.13	-	-	25.4	1.00
5400 S5-8	Female	½	⅜	202208-6-8	7	50.8	2.00	33.3	1.31	25.4	1.00	30.2	1.19	25.4	1.00
5400 S2-8	Male	½	½	202208-8-8	6	44.5	1.75	33.3	1.31	28.7	1.13	-	-	25.4	1.00
5400 S5-8	Female	½	½	202208-8-8	7	50.8	2.00	33.3	1.31	25.4	1.00	30.2	1.19	25.4	1.00
5400 S2-12	Male	¾	⅝	202208-10-12	6	62.7	2.47	45.7	1.80	41.4	1.63	-	-	35.1	1.38
5400 S5-12	Female	¾	⅝	202208-10-12	7	73.2	2.88	45.7	1.80	35.1	1.38	41.4	1.63	35.1	1.38
5400 S2-12	Male	¾	¾	202208-12-12	6	62.7	2.47	45.7	1.80	41.4	1.63	-	-	35.1	1.38
5400 S5-12	Female	¾	¾	202208-12-12	7	73.2	2.88	45.7	1.80	35.1	1.38	41.4	1.63	35.1	1.38
5400 S2-16	Male	1	1	202208-16-16	6	71.1	2.80	56.9	2.24	47.8	1.88	-	-	44.5	1.75
5400 S5-16	Female	1	1	202208-16-16	7	84.8	3.34	56.9	2.24	44.5	1.75	50.8	2.00	44.5	1.75

Note: See "Adapter - Braze" table for corresponding O-ring and adapter material.

Dust Caps and Dust Plugs

Dust Cap with Gasket	Dust Plug with Gasket	Body Size
5400-S6-4	5400-S8-4	¼
5400-S6-8	5400-S8-8	½
5400-S6-12	5400-S8-12	¾
5400-S6-16	5400-S8-16	1



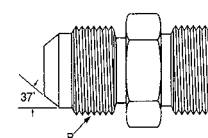
Dust Cap



Dust Plug

Adapter SAE 37° (JIC)

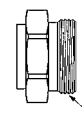
O-Ring	Brass	Steel	Body Size	Thread	Tube O.D. Size
22546-12	202220-4-4B	202220-4-4S	¼	7/16-20	¼
22546-12	202220-6-4B	202220-6-4S	¼	9/16-18	⅜
22546-17	-	202220-6-8S	½	9/16-18	⅜
22546-17	202220-8-8B	202220-8-8S	½	¾-16	½
22546-23	-	202220-10-12S	¾	7/8-14	⅝
22546-23	-	202220-12-12S	¾	1 1/16-12	¾
22546-28	-	202220-16-16S	1	1 1/16-12	1



Adapter SAE 37° (JIC)

Adapter – Braze

O-Ring	Brass	Steel	Body Size	Thread	Tube O.D. Size
22546-12	202208-4-4B	-	¼	1/2-20	¼
22546-17	202208-4-8B	-	½	7/8-20	¼
22546-12	202208-6-4B	-	¼	1/2-20	⅜
22546-17	202208-6-8B	-	½	7/8-20	⅜
22546-17	202208-8-8B	-	½	7/8-20	½
22546-17	202208-10-8B	202208-10-8S	½	7/8-20	⅝
22546-23	202208-10-12B	202208-10-12S	¾	1 1/4-18	¾
22546-23	202208-12-12B	-	¾	1 1/4-18	¾
22546-23	202208-14-12B	-	¾	1 1/4-18	7/8
22546-28	202208-14-16B	-	1	1 19/32-20	7/8
22546-28	202208-16-16B	-	1	1 19/32-20	1
22546-28	202208-18-16B	-	1	1 19/32-20	1 1/8
22546-28	202208-20-16B	-	1	1 19/32-20	1 3/8
22546-28	202208-22-16B	-	1	1 19/32-20	1 1/4

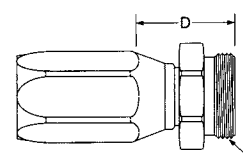


Adapter – Braze
(O-Ring Required)

Hose Fitting SAE 100R5†

O-Ring	Fitting Assembly	Body Size	Hose Size	Thread	Dimensions	
					(mm)	(in)
22546-12	487-4-4S	¼	-4	1/2-20	23.4	0.92
22546-12	487-4-6S	¼	-6	1/2-20	24.4	0.96
22546-17	487-8-6S	½	-6	7/8-20	24.4	0.96
22546-17	487-8-8S	½	-8	7/8-20	26.9	1.06
22546-23	487-12-10S	¾	-10	1 1/4-18	27.2	1.07
22546-23	487-12-12S	¾	-12	1 1/4-18	27.2	1.07
22546-28	487-16-16S	1	-16	1 19/32-20	25.7	1.01

†Additional dash styles available.



Hose Fitting SAE 100R5
(O-Ring Required)

5400 Series Low Air Inclusion Refrigerant

Component Part Numbers

Item Number	Dash Size > O.D. Tube Size >	-4 1/4"-3/8"	-8 1/4"-5/8"	-12 5/8"-7/8"	-16 7/8"-13/8"
Typical Male Half					
1	Tubing Adapter	202208-*4	202208-*8	202208-*12	202208-*16
2	Adapter O-ring	22546-12	22546-17	22546-23	22546-28
3	Poppet Valve Assembly	5400-S20-4	5400-S20-8	5400-S20-12	5400-S20-16
4	Male Body	5400-17-4	5400-17-8	5400-17-12	5400-17-16
5	Gasket Seal	22008-4	22008-8	22008-12	22008-16
6	Lock Washer	5400-54-4S	5400-54-8S	5400-54-12S	5400-54-16S
7	Jam Nut	5400-53-4S	5400-53-8S	5400-53-12S	5400-53-16S
Typical Female Half					
8	Union Nut and Body Assembly	5400-S16-4	5400-S16-8	5400-S16-12	5400-S16-16
9	Female valve assembly	5400-S19-4	5400-S19-8	5400-S19-12	5400-S19-16
2	Adapter O-Ring	22546-12	22546-17	22546-23	22546-28
1	Tubing Adapter	202208-*4	202208-*8	202208-*12	202208-*16

*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.

Couplings for industrial gas application



Table of Contents

Thread to connect	
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600/700 Series	168

LF Series

Industrial Gas application



Danfoss Hansen LF series is a specific coupling made for industrial applications using SF6 gas. Its design allows a perfect sealing over several decades and an extremely limited permeation of media into the atmosphere during connection and disconnection, in order to limit global warming. The coupling has a dual O-ring design and dust caps ensuring tight sealing while it is disconnected.

Global region

Product Features

- Low gas permeation reduces environmental impact
- Connectable under pressure up to 10 bar
- No leakage under Vacuum
- Easy connection and disconnection
- Standard body material: Brass and aluminum
- Standard seal material: EPDM

Physical characteristics

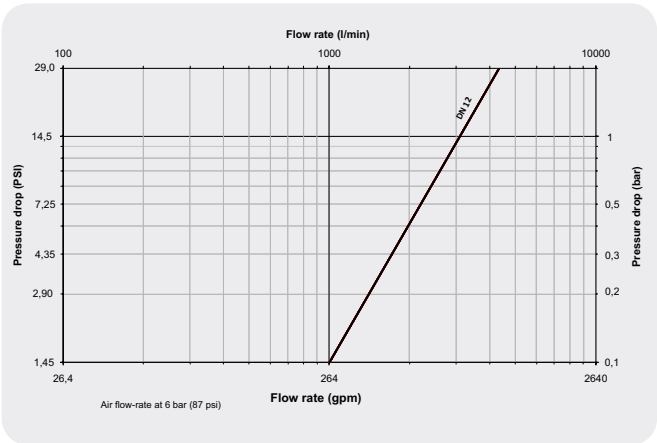
Body Size	Max. Operating Pressure		Nominal Flow Diameter	Plug part/order number	Socket part/order number	Fluid Loss	Air Inclusion
(in)	(bar)	(psi)	(mm)			(g)*	(ml)
DN12	15	218	10.2	12LFPS11	12LFSS15	0.031	0.003

*Gas SF6
The socket part number ending in S14 has no filter, while the part number ending in S15 has a filter.

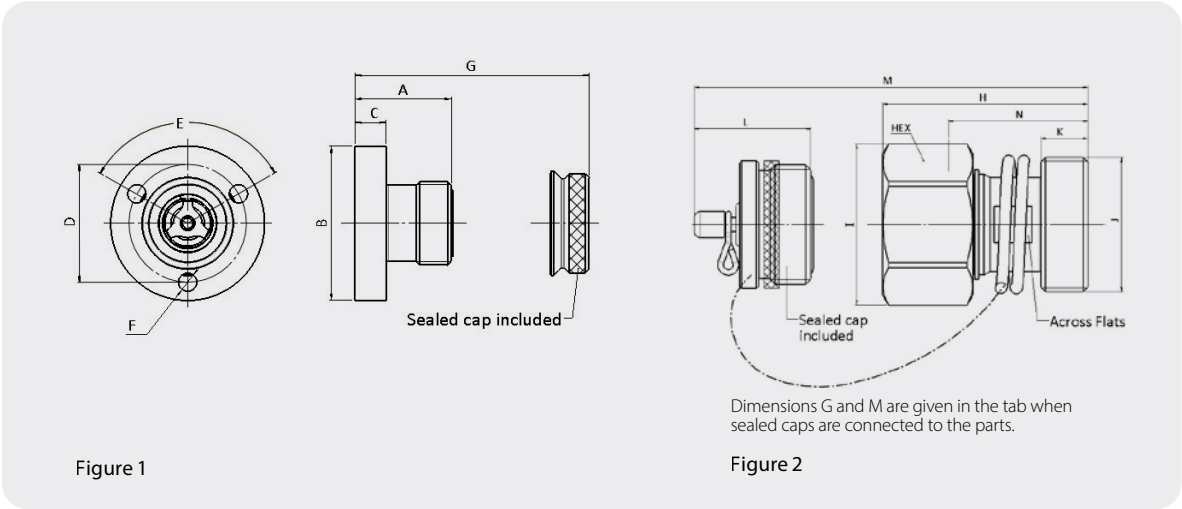
Applications & Markets

- Industrial application with use of SF6 gas

Flow Data



LF Series



Dimensions

Part/Order Number	Fig.	Body Size	Nominal Flow Diameter	Dimensions										Weight			
				A		B		C		D		E	F	G		lbs	grams
				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(°)	(mm)	(in)	(mm)		
12LFPS11	1	DN 12	10.5	37	1.457	59	2.32	12	0.470	45	1.770	120°	7	0.276	41	1.614	0.291 132

Part/Order Number	Fig.	Body Size	Nominal Flow Diameter	Dimensions										Weight			
				H		I		Hex		J	K	L	M	N		lbs	grams
				(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
12LFSS14	2	DN 12	10.5	54	2.126	43	1.693	38	1.496	M 36 x 2.0	1.417	12.5	0.492	26	1.024	61	2.402 42 1.654 0.816 370

The socket part number ending in S14 has no filter, while the part number ending in S15 has a filter.

600/700 Series

Industrial Gas application



Danfoss Hansen 600/700 Series quick connect couplings are designed for use in oxyacetylene service. The 600/700 Series can also be used with compressed air and other gases.

AMER region

Product Features

- Safety sleeve lock prevents accidental disconnections
- Non-Interchangeable design prevents crossing of lines
- Color coded sleeves for easy identification:
–600 green, –700 red
- Designed for use with compressed air and other gases
- OSHA compliant
- Standard body material: Brass
- Standard seal material: Buna-N

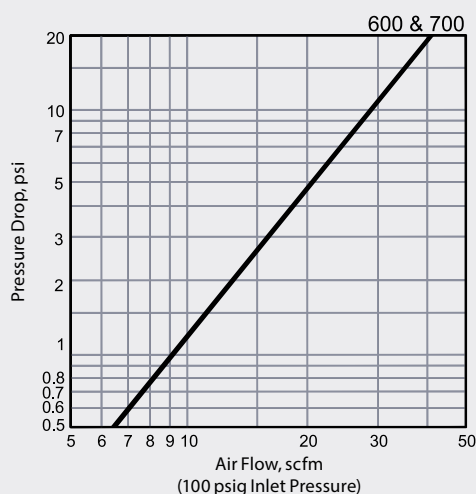
Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
600 & 700	1/4	103	1,500	412	6,000	595	21

Applications & Markets

- Breathing Equipment
- Welding
- Shipyards
- General pneumatics
- Construction
- Nitrous Oxide
- Series 600 couplings are not to be used with oxygen at pressures exceeding 100 psig.
- Series 700 couplings are not to be used with acetylene at pressures exceeding 15 psig.

Flow Data



Series 600 and 700 couplings with sleeve lock feature comply with OSHA requirements*, which state couplings shall be a type that cannot be unlocked or disconnected by means of straight pull without rotary motion.

WARNING!

Oxygen increases combustibility. Fire and explosion could occur causing severe bodily injury or death. Be sure to select the proper coupling for your application and use it only within the specified service pressure range.

*Series 600 and 700 couplings with sleeve lock feature comply with O.S.H.A. requirements, Sec. 1915.35 (f)(5), 1916.35 (f)(5), 1917.35 (f)(5), and 1926.350 (f)(5).

600 Series

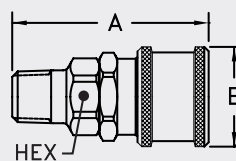


Figure 1

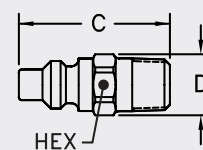


Figure 2

Male End Connections

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions A		B		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
GR601	GR601SL	Socket/Female	¼	⅜	⅜-27	NPTF	Brass	1	46.7	1.84	25.4	1.00	17.5	0.69
GR603	GR603SL	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	51.6	2.03	25.4	1.00	17.5	0.69
GR604R†	GR604RSL	Socket/Female	¼	⅝	⅝-18	UNF	Brass	1	48.8	1.92	25.4	1.00	17.5	0.69
GR605	GR605SL	Socket/Female	¼	⅜	⅜-18	NPTF	Brass	1	50.5	1.99	25.4	1.00	17.5	0.69

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions C		D		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
01A	—	Plug/Male	¼	⅜	⅜-27	NPTF	Brass	2	35.8	1.41	16.0	0.63	14.2	0.56
03A	—	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	39.6	1.56	16.0	0.63	14.2	0.56
04R†	—	Plug/Male	¼	⅝	⅝-18	UNF	Brass	2	35.8	1.41	16.0	0.63	14.2	0.56

†R.H. Thread—30° Female Flare.

*Without sleeve lock.

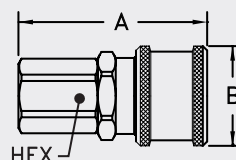


Figure 1

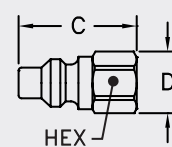


Figure 2

Female End Connections

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions A		B		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
GR600	GR600SL	Socket/Female	¼	⅜	⅜-27	NPTF	Brass	1	43.9	1.73	25.4	1.00	17.5	0.69
GR602	GR602SL	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	49.5	1.95	25.4	1.00	17.5	0.69
GR604	GR604SL	Socket/Female	¼	⅝	⅝-18	NPTF	Brass	1	51.6	2.03	25.4	1.00	17.5	0.69
GR605R‡	GR605RSL	Socket/Female	¼	⅝	⅝-18	UNF	Brass	1	49.5	1.95	25.4	1.00	17.5	0.69

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions C		D		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
00A	—	Plug/Male	¼	⅜	⅜-27	NPTF	Brass	2	31.0	1.22	16.0	0.63	14.2	0.56
02A	—	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	35.8	1.41	19.6	0.77	17.5	0.69
05R‡	—	Plug/Male	¼	⅝	⅝-18	UNF	Brass	2	35.1	1.38	19.6	0.77	17.5	0.69

‡R.H. Thread—Inverted Flare.

*Without sleeve lock.

600 Series

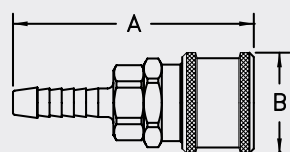


Figure 1

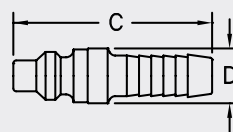


Figure 2

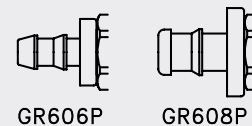


Figure 1A

Hose Stem End Connections

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions A		B	
							(mm)	(in)	(mm)	(in)
GR606	GR606SL	Socket/Female	¼	¼	Brass	1	62.74	2.47	25.40	1.00
GR606PS	GR606PSL\$	Socket/Female	¼	¼	Brass	1, 1A	56.90	2.24	25.40	1.00
GR607	GR607SL	Socket/Female	¼	⅝	Brass	1	62.74	2.47	25.40	1.00
GR608	GR608SL	Socket/Female	¼	⅝	Brass	1	62.74	2.47	25.40	1.00
GR608PS	—	Socket/Female	¼	⅝	Brass	1, 1A	58.67	2.31	25.40	1.00

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions C		D	
							(mm)	(in)	(mm)	(in)
07A	—	Plug/Male	¼	¼	Brass	2	51.56	2.03	14.22	0.56
08A	—	Plug/Male	¼	⅝	Brass	2	51.56	2.03	14.22	0.56
09A	—	Plug/Male	¼	⅝	Brass	2	51.82	2.04	14.22	0.56

†R.H. Thread—30° Female Flare.

*Without sleeve lock.

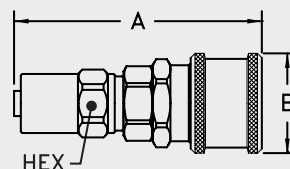


Figure 1

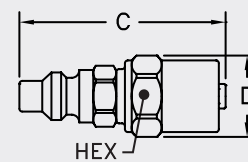


Figure 2

Hose Clamp End Connections

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
GR60B3	GR60B3SL	Socket/Female	¼	¼	½	Brass	1	65.0	2.56	25.4	1.00	16.0	0.63
GR60B5	GR60B5SL	Socket/Female	¼	¼	⅝	Brass	1	65.0	2.56	25.4	1.00	17.5	0.69
GR60B7	GR60B7SL	Socket/Female	¼	¼	⅝	Brass	1	65.0	2.56	25.4	1.00	19.1	0.75
GR60C5	—	Socket/Female	¼	⅝	⅝	Brass	1	66.5	2.62	25.4	1.00	17.5	0.69
GR60D7	—	Socket/Female	¼	⅝	⅝	Brass	1	68.1	2.68	25.4	1.00	19.1	0.75
GR60D9	—	Socket/Female	¼	⅝	⅝	Brass	1	68.1	2.68	25.4	1.00	20.6	0.81
GR60D11	—	Socket/Female	¼	⅝	⅝	Brass	1	68.1	2.68	25.4	1.00	22.4	0.88

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
6B3	—	Plug/Male	¼	¼	½	Brass	2	54.1	2.13	17.8	0.70	16.0	0.63
6B5	—	Plug/Male	¼	¼	⅝	Brass	2	54.1	2.13	19.6	0.77	17.5	0.69
6B7	—	Plug/Male	¼	¼	⅝	Brass	2	54.1	2.13	21.3	0.84	19.1	0.75
6D7	—	Plug/Male	¼	⅝	⅝	Brass	2	57.2	2.25	21.3	0.84	19.1	0.75
6D9	—	Plug/Male	¼	⅝	⅝	Brass	2	57.2	2.25	23.1	0.91	20.6	0.81
6D11	—	Plug/Male	¼	⅝	⅝	Brass	2	57.2	2.25	24.9	0.98	22.4	0.88

*Without sleeve lock.

700 Series

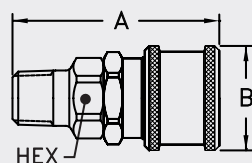


Figure 1

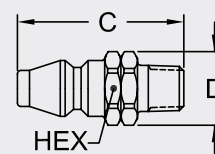


Figure 2

Male End Connections

Part/Order Number Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions A		B		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
RD701	—	Socket/Female	¼	⅜	⅜-27	NPTF	Brass	1	47.0	1.85	25.4	1.00	17.5	0.69
RD703	RD703SL	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	51.8	2.04	25.4	1.00	17.5	0.69
RD704L†	RD704LSL	Socket/Female	¼	⅝	⅝-18	UNF	Brass	1	49.0	1.93	25.4	1.00	17.5	0.69
RD705	RD705SL	Socket/Female	¼	¾	¾-18	NPTF	Brass	1	50.8	2.00	25.4	1.00	17.5	0.69

Part/Order Number Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions C		D		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
A1	—	Plug/Male	¼	⅜	⅜-27	NPTF	Brass	2	37.3	1.47	16.0	0.63	14.2	0.56
A3P	—	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	41.4	1.63	16.0	0.63	14.2	0.56
A4L†	—	Plug/Male	¼	⅝	⅝-18	UNF	Brass	2	38.1	1.50	16.0	0.63	14.2	0.56

†L.H. Thread—30° Female Flare.

*Without sleeve lock.

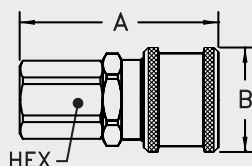


Figure 1

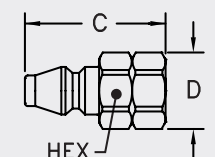


Figure 2

Female End Connections

Part/Order Number Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions A		B		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
RD700	RD700SL	Socket/Female	¼	⅜	⅜-27	NPTF	Brass	1	44.2	1.74	25.4	1.00	17.5	0.69
RD702	RD702SL	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	49.8	1.96	25.4	1.00	17.5	0.69
RD704	RD704SL	Socket/Female	¼	⅝	⅝-18	NPTF	Brass	1	51.8	2.04	25.4	1.00	17.5	0.69
RD705L†	RD705LSL	Socket/Female	¼	¾	¾-18	UNF	Brass	1	49.8	1.96	25.4	1.00	17.5	0.69

Part/Order Number Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions C		D		Hex	
									(mm)	(in)	(mm)	(in)	(mm)	(in)
A2	—	Plug/Male	¼	—	¼-18	NPTF	Brass	2	37.1	1.46	19.6	0.77	17.5	0.69
A5L†	—	Plug/Male	¼	—	⅝-18	UNF	Brass	2	35.1	1.38	19.6	0.77	17.5	0.69

†L.H. Thread—Inverted Flare

*Without sleeve lock

700 Series

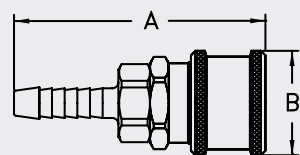


Figure 1

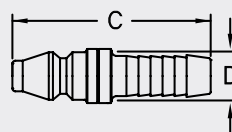
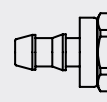
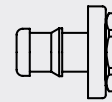


Figure 2

RD706P
Figure 1A

RD708P

Hose Stem End Connections

Part/Order Number Standard*	Acetylene Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions A		B	
							(mm)	(in)	(mm)	(in)
RD706	RD706SL	Socket/Female	¼	¼	Brass	1	63.0	2.48	25.4	1.00
RD706PS	—	Socket/Female	¼	¼	Brass	1	57.2	2.25	25.4	1.00
RD707	RD707SL	Socket/Female	¼	⅝	Brass	1	63.0	2.48	25.4	1.00
RD708	RD708SL	Socket/Female	¼	⅝	Brass	1	63.0	2.48	25.4	1.00
RD708P	—	Socket/Female	¼	⅝	Brass	1	58.9	2.32	25.4	1.00

Part/Order Number Standard*	Acetylene Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions C		D	
							(mm)	(in)	(mm)	(in)
A7	—	Plug/Male	¼	¼	Brass	2	50.8	2.00	14.2	0.56
A8	—	Plug/Male	¼	⅝	Brass	2	52.3	2.06	14.2	0.56
A9	—	Plug/Male	¼	⅝	Brass	2	53.3	2.10	14.2	0.56

§For use with push-on style hose.

*Without sleeve lock.

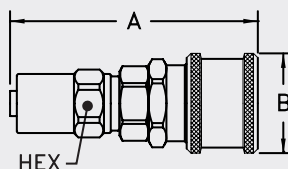


Figure 1

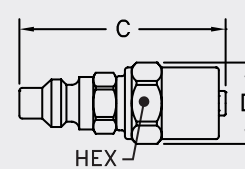


Figure 2

Hose Clamp End Connections

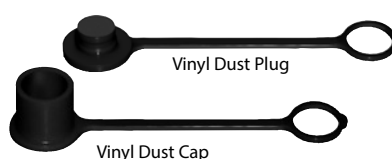
Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
RD70B3	RD70B3SL	Socket	¼	¼	½	Brass	1	65.3	2.57	25.4	1.00	16.0	0.63
RD70B7	—	Socket	¼	¼	⅝	Brass	1	65.3	2.57	25.4	1.00	19.1	0.75
RD70D7	—	Socket	¼	⅝	⅝	Brass	1	68.3	2.69	25.4	1.00	19.1	0.75
RD70D9	—	Socket	¼	⅝	⅞	Brass	1	68.3	2.69	25.4	1.00	20.6	0.81

Part/Order Number Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
7B3	—	Plug	¼	¼	½	Brass	2	55.6	2.19	17.8	0.70	16.0	0.63
7B7	—	Plug	¼	¼	⅝	Brass	2	55.6	2.19	21.3	0.84	19.1	0.75

*Without sleeve lock.

Dust Caps and Dust Plugs

Series	Dust Cap	Dust Plug
600	XPPDC1HK	XPSDC1HK
700	XPPDC1HK	XPSDC1HK



Vinyl Dust Cap

Couplings for food & beverage applications



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Thread to connect	
2HKGL Series	175

2HKGL Series

Food&Beverage application



Danfoss Hansen 2HKGL series is a specific coupling made for liquid or gas transfer in various field, such as chemical, food and beverage, or aerospace. The coupling is a push/pull and the material used is stainless steel. This series was made based on the 2HKIL/2HKIG Danfoss Hansen series. The socket part has 3 locking balls.

EMEA region

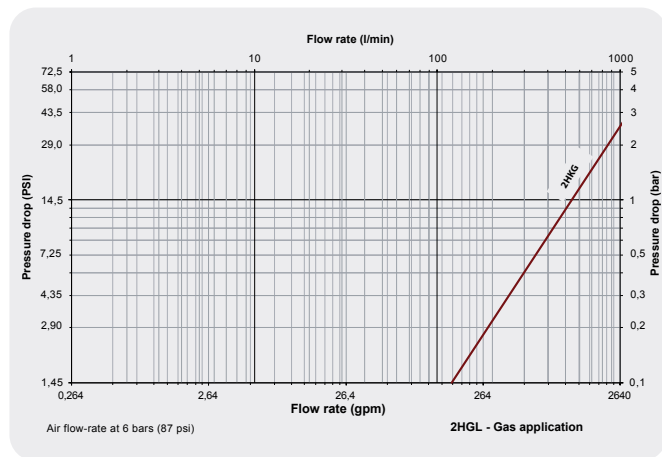
Product Features

- Specific series made from 2HKIL/2HKIG
- Size 1/4"
- Specific application
- Stainless steel construction

Physical characteristics

Coupling Size	Max. Operating Pressure		Min. Burst Pressure		Nominal Flow Diameter	Rated Flow		Air Inclusion	Fluid Loss
(in)	(bar)	(psi)	(bar)	(psi)	(mm)	(lpm)	(gpm)	cc.max.	cc.max.
1/4	110	1500	438	6352	5.9	8.3	2.2	2.2	1

Flow Data

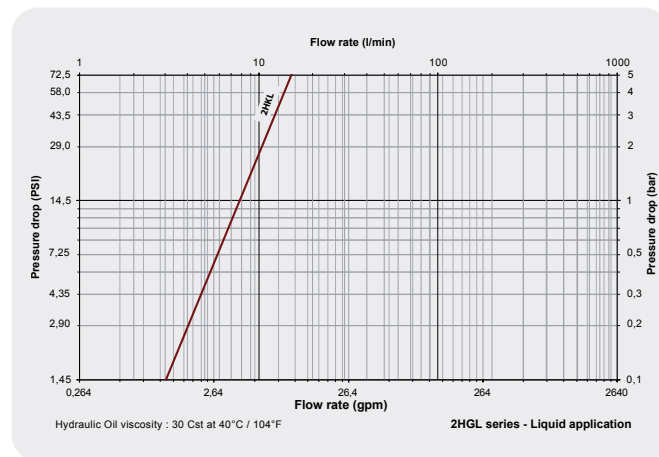


This flow chart applies for products for gas application, which include "HG" or "KG" letters in their part numbers.

Applications & Markets

- Food and beverage
- Military
- Aerospace
- Chemical

Flow Data



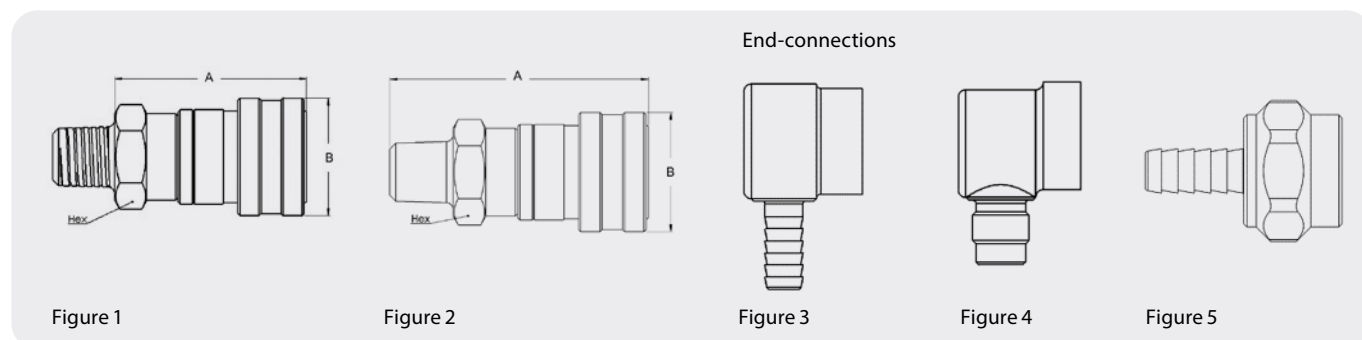
This flow chart applies for products for liquid application, which include "HL" or "KL" letters in their part numbers.

Seal Elastomer Data*

Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM (Ethylene-Propylene)*	-40C° to 150C°	-40F° to 302F°

*For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility

2HKGL Series

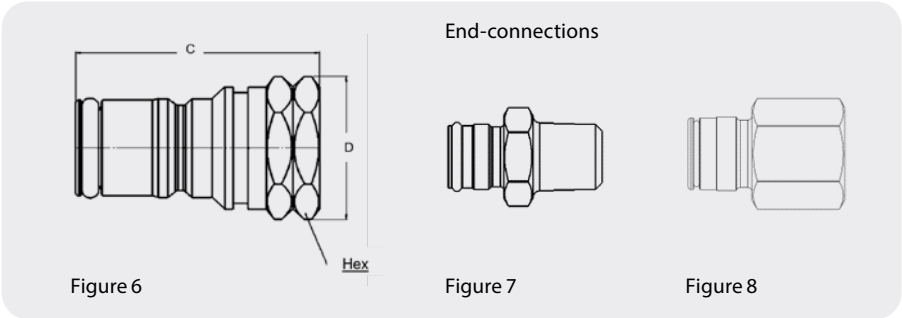


Dimensions

Part/Order Number	Body Size	End connection				Socket dimensions					
		UNF	NPT	Hosebarb	Fig.	A		B		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
2HGRB	¼	-	-	¼	3	54.8	2.16	41.9	1.65	-	-
2HLRB	¼	-	-	¼	3	54.8	2.16	41.9	1.65	-	-
2HGLLRA720	¼	7/16-20	-	-	4	53.3	2.10	36.3	1.43	-	-
2HLLRA720	¼	7/16-20	-	-	4	53.3	2.10	36.3	1.43	-	-
2HGBNB	¼	-	-	¼	5	69.3	2.73	25.4	1.00	-	-
2HLBNB	¼	-	-	¼	5	41.6	1.64	21.0	0.83	-	-
2HGDNB	¼	-	-	¾	5	69.3	2.73	25.4	1.00	-	-
2HLBNB	¼	-	-	¾	5	41.6	1.64	21.0	0.83	-	-
2HG720	¼	7/16-20	-	-	1	54.8	2.16	41.91	1.65	20.57	0.81
2HL720	¼	7/16-20	-	-	1	71.1	2.80	25.4	1.00	20.57	0.81
2HG15	¼	-	¼	-	1	69.3	2.73	25.4	1.00	20.57	0.81
2HL15	¼	-	¼	-	1	40.6	1.60	21.08	0.83	20.57	0.81
2HG20	¼	-	¾	-	1	69.3	2.73	25.4	1.00	20.57	0.81
2HL20	¼	-	¾	-	1	44.2	1.74	25.4	1.00	20.57	0.81
2HG16	¼	-	¼	-	2	69.3	2.73	25.4	1.00	20.57	0.81
2HL16	¼	-	¼	-	2	54.8	2.16	27.68	1.09	20.57	0.81

2HKGL Series

EMEA region



Dimensions

Part/Order Number	Body Size	End connection		Fig.	Socket dimensions					
		UNF	NPT		C		D		Hex	
					(mm)	(in)	(mm)	(in)	(mm)	(in)
2KGF16	¼	-	¼	8	50.29	1.98	25.4	1.00	22.35	0.88
2KLF16	¼	-	¼	8	46.22	1.82	22.8	0.90	22.35	0.88
2KLF720	¼	7/16-20	-	8	40.64	1.60	22.8	0.90	22.35	0.88
2KGF15	¼	-	¼	7	29.71	1.17	25.4	1.00	22.35	0.88
2KLF15	¼	-	¼	7	50.8	2.00	24.1	0.95	22.35	0.88
2KGF20	¼	-	¾	7	50.03	1.97	24.1	0.95	22.35	0.88
2KLF20	¼	-	¾	7	50.29	1.98	25.4	1.00	22.35	0.88
2KGC	¼	1½-18	-	6	37.08	1.46	20.3	0.80	20.57	0.81
2KLC	¼	1½-18	-	6	37.08	1.46	25.4	1.00	22.35	0.88
2KLS3	¼	7/16-20	-	6	36.83	1.45	19.5	0.75	21.84	0.86
2KLS4	¼	7/16-20	-	6	38.1	1.50	19.5	0.75	21.84	0.86

Couplings for pneumatic applications



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Pneumatic Couplings Selector Chart

Coupling Series	Coupling Style			Interchange					Body Size					Body Material					Locking Mechanism				Options			
	MANUAL CONNECT	PUSH-TO-CONNECT	SAFETY COUPLING	ISO 6150 B	ISO 6150 C	ARO 210/310	TRU-FLATE	CEJN 320/RECTUS 25	PROPRIETARY PROFILE	1/8 INCH	1/4 INCH	3/8 INCH	1/2 INCH	3/4 INCH	ALUMINUM	BRASS	STEEL (Zinc/chromate Finish)	STAINLESS STEEL	PLASTIC (Acetal)	BALL LOCK	PIN LOCK	RING LOCK	PLASTIC FINGERS	SLEEVE LOCK	SEAL MATERIALS (Various)	DUST CAP (Vinyl)
G600		●		●							●					●				●						
I900		●		●								●				●				●						
T1100		●		●									●			●				●						
T1300		●							●				●			●				●						
1000	●			●							●					●		●		●				●	●	●
400	●			●			●					●				●				●				●	●	●
500	●			●									●			●				●				●	●	
3000		●		●							●					●					●			●	●	●
4000		●		●								●				●					●			●	●	●
5000		●		●									●			●					●			●	●	
6000		●		●										●		●					●			●	●	
Auto-Flo 23		●		●		●	●				●					●				●						
Auto-Flo 24		●						●			●					●				●						
Safeline		●	●	●	●						●				●		●			●						
180/280	●								●	●						●				●					●	
100	●								●	●	●					●				●					●	●
2RL		●							●		●						●					●			●	●
3RL		●							●			●					●					●			●	●
Full-Bore		●	●	●								●	●				●			●						
210		●				●					●						●				●					
310		●				●						●					●				●					

Safeline Series Operation Guidelines

Elimination of hose whip with two distinct movements:

01 Button pressed

02 Plug pushed into the socket

➔ Dissipation of downstream pressure:
1 the plug is retained in the socket

➔ Disconnection



Coupling connected



The button is pressed



The plug is retained in the socket:
dissipation of downstream pressure



The plug is pushed toward the socket



Disconnection

**Recommendation
applicable to all profiles**

Use with vibrating tools:
A flexible hose at least 300 mm long between the tool and the quick coupling is recommended.

Safeline Series ISO 6150 B GD10500 Safety-Type Quick-Release

Pneumatic application



Danfoss' Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

Global region

Product Features

- Safe and easy to connect and disconnect
- Light weight, compact ergonomic design
- Accepts 1/4" ISO 6150 Series B and A-A-59439 plugs/males
- Accepts all US industrial plugs/males
- Standard body material: Aluminum
- Standard seal material: Buna-N
- Option: Private labelling

Physical characteristics

Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
1/4	5.5	16	232	525	139	660	174	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.

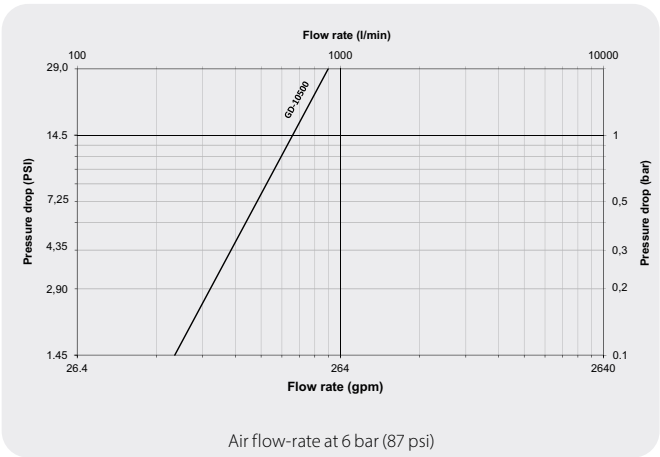
**This flow rate allows the optimum output from a pneumatic tool.

*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

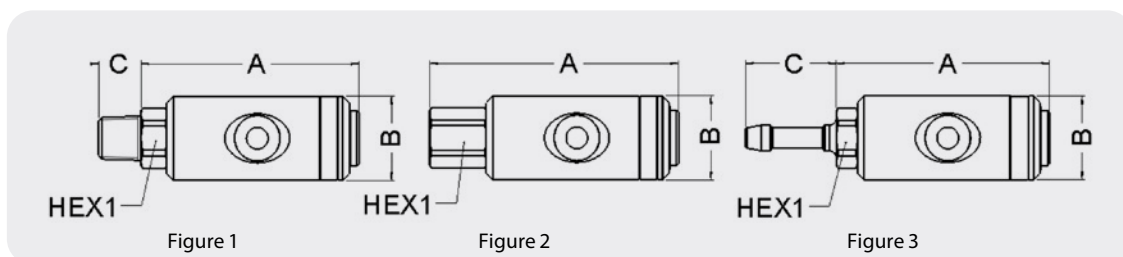
Applications & Markets

- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

Flow Data



Safeline Series ISO 6150 B GD10500 Safety-Type Quick-Release



Sockets (Female)

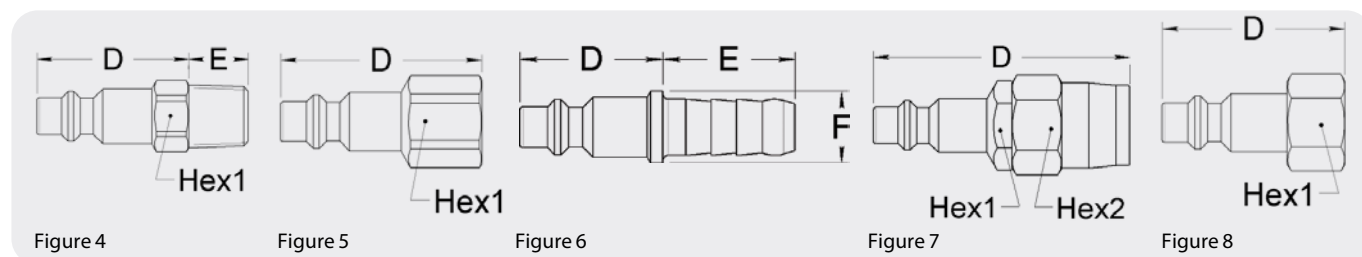
Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions						Weight			
						A		B		C		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
GD1053615	-	¼	¼	Male BSPP	1	65.3	2.57	26.0	1.02	12.2	0.48	19	0.75	0.23	106
GD1053614	-	¼	¼	Male BSPT	1	67.3	2.65	26.0	1.02	13.0	0.51	17	0.67	0.23	105
GD1053641	-	¼	¼	Male NPT	1	67.2	2.65	26.0	1.02	15.1	0.59	17	0.67	0.26	118
GD1053639	-	¾	¾	Male BSPP	1	66.3	2.61	26.0	1.02	12.0	0.47	22	0.87	0.26	116
GD1053638	-	¾	¾	Male BSPT	1	67.3	2.65	26.0	1.02	14.5	0.57	17	0.67	0.25	113
GD1053683	-	¾	¾	Male NPT	1	66.5	2.62	26.0	1.02	15.3	0.60	19	0.75	0.28	129
GD1053613	-	½	½	Male BSPP	1	68.3	2.69	26.0	1.02	14.0	0.55	27	1.06	0.32	145
GD1053612	-	½	½	Male BSPT	1	66.3	2.61	26.0	1.02	17.0	0.67	22	0.87	0.28	129
GD1053621	-	½	½	Male NPT	1	66.3	2.61	26.0	1.02	20.0	0.79	22	0.87	0.32	145
GD1052614	¼	¼	¼	Female BSPP	2	76.8	2.33	26.0	1.02	-	-	17	0.67	0.23	105
GD1052641	-	¼	¼	Female NPT	2	76.3	2.33	26.0	1.02	-	-	17	0.67	0.23	105
GD1052638	-	¾	¾	Female BSPP	2	79.8	3.14	26.0	1.02	-	-	22	0.87	0.27	124
GD1052683	-	¾	¾	Female NPT	2	78.3	3.08	26.0	1.02	-	-	22	0.87	0.27	123
GD1052612	-	½	½	Female BSPP	2	83.8	3.30	26.0	1.02	-	-	27	1.06	0.33	151
GD1052621	-	½	½	Female NPT	2	82.3	3.24	26.0	1.02	-	-	27	1.06	0.37	166
GD1055667	-	-	6 mm	Reusable Hose Fit.	3	65.8	2.59	26.0	1.02	28.0	1.10	17	0.67	0.23	103
GD1055678	-	-	7 mm	Reusable Hose Fit.	3	65.8	2.59	26.0	1.02	28.0	1.10	17	0.67	0.25	113
GD1055689	-	-	8 mm	Reusable Hose Fit.	3	65.8	2.59	26.0	1.02	28.0	1.10	17	0.67	0.23	104
GD1055690	-	-	9 mm	Reusable Hose Fit.	3	65.8	2.59	26.0	1.02	28.0	1.10	17	0.67	0.23	106
GD1055601	-	-	10 mm	Reusable Hose Fit.	3	65.8	2.59	26.0	1.02	28.0	1.10	17	0.67	0.23	105

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6, 7, 8) together and subtract 23 mm (0.91 in).

*Alternative end connections available upon request.

Safeline Series ISO 6150 B GD10500 Safety-Type Quick-Release

Global region



Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Dimensions										Weight		
					Fig.	D		E		F		Hex1		Hex2			
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
GA0066318		⅝	⅝-28	Male BSPT	4	32	1.260	9	0.354	–	–	12	0.472	–	–	0.04189	19
GA0066314	-	¼	¼-19	Male BSPT	4	32	1.260	13	0.512	–	–	14	0.551	–	–	0.06	25
10	-	¼	¼-18	Male NPT	4	31	1.220	14	0.551	–	–	15	0.591	–	–	0.06	25
GA0066338	-	⅝	⅝-19	Male BSPT	4	32	1.260	15	0.591	–	–	17	0.669	–	–	0.08	38
GA0066345	-	M14	M14x1,25	Male Metric	4	32	1.260	13	0.512	–	–	14	0.551	–	–	0.06	26
GA0066214	-	¼	¼-19	Female BSPP	5	44	1.732	–	–	–	–	17	0.669	–	–	0.07	30
11	-	¼	¼-18	Female NPT	5	41.5	1.634	–	–	–	–	18	0.709	–	–	0.07	30
GA0066238	-	⅝	⅝-19	Female BSPP	5	44	1.732	–	–	–	–	21	0.827	–	–	0.08	37
GA0066245	-	M14	M14x1,25	Female Metric	5	44	1.732	–	–	–	–	17	0.669	–	–	0.06	26
GA0066248	¼	–	M14x1,25	Female Metric	5	44	1.732	–	–	–	–	14	0.551	–	–	0.05	24
GA0066767	-	–	6mm	Hose Tail	6	28	1.102	26	1.024	14	0.551	–	–	–	–	0.04	19
GA0066778	-	–	7mm	Hose Tail	6	28	1.102	26	1.024	14	0.551	–	–	–	–	0.04	20
GA0066789	-	–	8mm	Hose Tail	6	28	1.102	26	1.024	14	0.551	–	–	–	–	0.04	20
GA0066790	-	–	9mm	Hose Tail	6	28	1.102	26	1.024	14	0.551	–	–	–	–	0.04	20
GA0066701	-	–	10mm	Hose Tail	6	28	1.102	26	1.024	14	0.551	–	–	–	–	0.05	22
GA0066174	-	–	7x14 mm	Reusable Hose Fit.	7	56.5	2.224	–	–	–	–	16	0.630	19	0.748	0.12	56
GA0066184	-	–	8x14 mm	Reusable Hose Fit.	7	56.5	2.224	–	–	–	–	16	0.630	19	0.748	0.13	57
GA0066185	-	–	8x15 mm	Reusable Hose Fit.	7	56.5	2.224	–	–	–	–	16	0.630	19	0.748	0.12	53
GA0066196	-	–	9x16 mm	Reusable Hose Fit.	7	56.5	2.224	–	–	–	–	16	0.630	19	0.748	0.11	51
GA0066814	-	¼	¼-19	Female BSPP Swivel	8	38	1.496	–	–	–	–	17	0.669	–	–	0.06	26
GA0066845	-	M14	M14x1,25	Female Metric Swivel	8	38	1.496	–	–	–	–	17	0.669	–	–	0.06	26

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6, 7, 8) together and subtract 23 mm (0.91 in).

*Alternative end connections available upon request.

Safeline Series ISO 6150 B ID10900 Safety-Type Quick-Release

Pneumatic application



Danfoss ID10900 Series is a single shut-off compressed air coupling that incherchanges with ISO 6150 C Standards requirements. Nominal diameter is 8 mm. Thanks to a distinct two-movement action, our couplings guarantee worker safety at disconnection by eliminating the “whiplash” effect. It is a must-have for safe air applications.

Global region

Product Features

- One-hand push-to-connect
 - Automatic button for disconnection
 - Meets safety standard ISO 4414
 - Single shut-off valving
 - Good flow capacity
- Wide selection of end connections
 - Standard seal material: NBR (Nitrile)
 - Standard body material (Female): Aluminum
 - Standard body material (Male): Zinc plated steel
 - Option: Private labelling

Physical characteristics

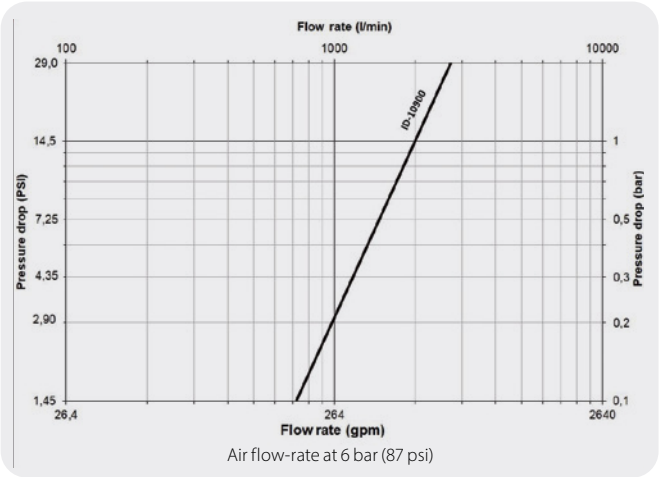
Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
		(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
3/8	8	16	232	1,590	420	2,000	528	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Market

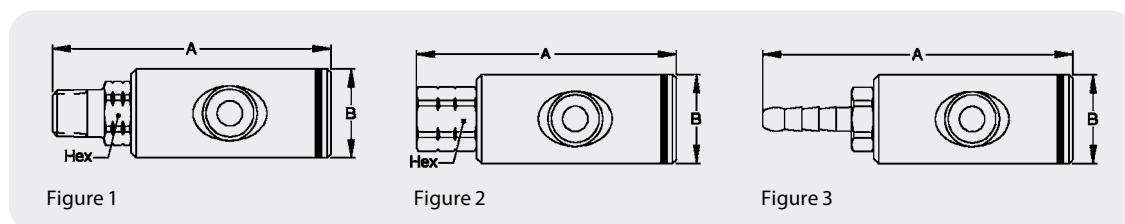
- General Pneumatics
- Air Tools

Flow Data



Safeline Series ISO 6150 B ID10900 Safety-Type Quick-Release

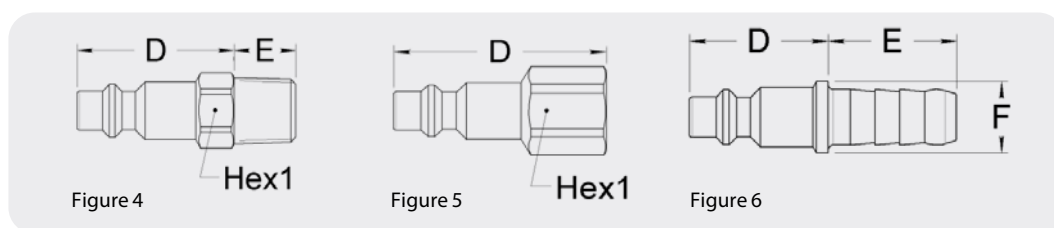
Global region



Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						A	B	C	Hex1		lbs	grams			
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
ID1096015	-	¼	¼	Male BSPP	1	76.2	3.0	34	1.3	11.9	0.5	22	0.87	0.47	214
ID1096014	-	¼	¼	Male BSPT	1	76.1	3.0	34	1.3	13	0.5	22	0.87	0.47	213
ID1096041	-	¼	¼	Male NPT	1	76	3.0	34	1.3	13	0.5	22	0.87	0.47	213
ID1096039	-	¾	¾	Male BSPP	1	76.20	3.0	34	1.3	11.9	0.5	22	0.87	0.48	218
ID1096038	-	¾	¾	Male BSPT	1	76.1	3.0	34	1.3	15	0.6	22	0.87	0.48	219
ID1096083	-	¾	¾	Male NPT	1	76.1	3.0	34	1.3	15	0.6	22	0.87	0.48	219
ID1096013	-	½	½	Male BSPP	1	76.2	3.0	34	1.3	13.9	0.5	27	1.06	0.52	238
ID1096012	-	½	½	Male BSPT	1	76.1	3.0	34	1.3	17	0.7	22	0.87	0.51	233
ID1096021	-	½	½	Male NPT	1	76.1	3.0	34	1.3	17	0.7	22	0.87	0.51	233
ID1097014	¼	¼	¼	Female BSPP	2	88.1	3.5	34	1.3	–	–	22	0.87	0.51	233
ID1097041	-	¼	¼	Female NPT	2	88.10	3.5	34	1.3	–	–	22	0.87	0.51	233
ID1097038	-	¾	¾	Female BSPP	2	90.60	3.6	34	1.3	–	–	22	0.87	0.51	232
ID1097083	-	¾	¾	Female NPT	2	90.6	3.6	34	1.3	–	–	22	0.87	0.51	232
ID1097012	-	½	½	Female BSPP	2	94.1	3.7	34	1.3	–	–	27	1.06	0.59	267
ID1097021	-	½	½	Female NPT	2	94.1	3.7	34	1.3	–	–	27	1.06	0.59	269
ID1095678	-	-	7 mm	Hose Tail	3	77.1	3.0	34	1.3	28	1.1	22	0.87	0.47	215
ID1095689	-	-	8 mm	Hose Tail	3	77.1	3.0	34	1.3	28	1.1	22	0.87	0.48	216
ID1095690	-	-	9 mm	Hose Tail	3	77.1	3.0	34	1.3	28	1.1	22	0.87	0.48	218
ID1095601	-	-	10 mm	Hose Tail	3	77.1	3.0	34	1.3	28	1.1	22	0.87	0.48	219

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25,6 mm (1 in.).



Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						D	E	F	Hex1			lbs	grams		
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
IA0090614	-	¼	¼	Male BSPT	4	34.0	1.34	13.0	0.51	–	–	16.0	0.63	0.07	32.0
IA0090638	-	¾	¾	Male BSPT	4	36.0	1.42	15.0	0.59	–	–	17.0	0.67	0.09	41.0
IA0090612	-	½	½	Male BSPT	4	40.0	1.57	17.0	0.67	–	–	23.0	0.91	0.12	56.0
IA0090714	-	¼	¼	Female BSPP	5	50.0	1.97	–	–	–	–	17.0	0.67	0.08	38.0
IA0090738	-	¾	¾	Female BSPP	5	50.0	1.97	–	–	–	–	21.0	0.83	0.11	49.0
IA0090712	¾	½	½	Female BSPP	5	53.0	2.09	–	–	–	–	26.0	1.02	0.15	69.0
IA0090978	-	-	7 mm	Hose Tail	6	33.0	1.30	26.0	1.02	16.0	0.63	–	–	0.07	30.0
IA0090989	-	-	8 mm	Hose Tail	6	33.0	1.30	26.0	1.02	16.0	0.63	–	–	0.07	30.0
IA0090990	-	-	9 mm	Hose Tail	6	33.0	1.30	26.0	1.02	16.0	0.63	–	–	0.07	31.0
IA0090901	-	-	10 mm	Hose Tail	6	33.0	1.30	26.0	1.02	16.0	0.63	–	–	0.07	32.0
IA0090912	-	-	11-12 mm	Hose Tail	6	33.0	1.30	31.0	1.22	16.0	0.63	–	–	0.08	38.0

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25,6 mm (1 in.).

Safeline Series ISO 6150 C GD18500/GK18600

Pneumatic application

Danfoss' Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.



Product Features

- Safe and easy to connect and disconnect
 - Light weight, compact ergonomic design
 - Meets Safety Standard ISO 4414
- Meets ISO 6150 Series C Standard
 - Standard body material: Dural
 - Standard seal material: Buna-N
 - Option: Private labelling

Physical characteristics

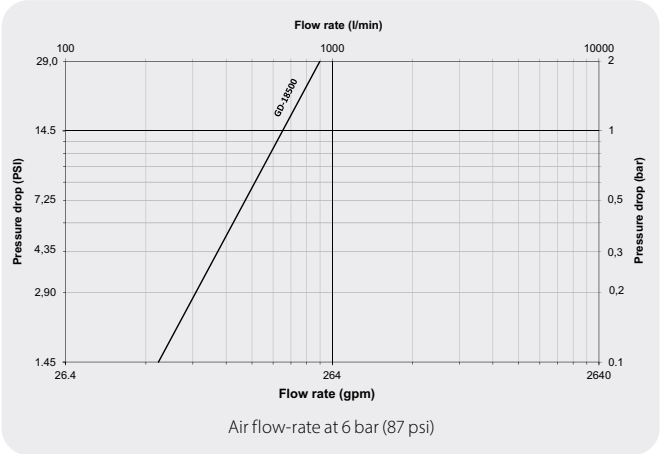
Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
¼	5.5	16	232	515	136	650	172	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Market

- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

Flow Data



Safeline Series ISO 6150 C GD18500/GK18600

Figure 1

Figure 2

Figure 3

Figure 4

Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						A		B		C		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
GD1853615	-	¼	¼	Male BSPP	1	47	1.85	26	1.02	12	0.47	19	0.75	0.17	77
GD1853614	-	¼	¼	Male BSPT	1	49	1.93	26	1.02	13	0.51	17	0.67	0.17	76
GD1853639	-	¾	¾	Male BSPP	1	48	1.89	26	1.02	12	0.47	22	0.87	0.20	91
GD1853638	-	¾	¾	Male BSPT	1	49	1.93	26	1.02	14.5	0.57	17	0.67	0.19	84
GD1853613	-	½	½	Male BSPP	1	50	1.97	26	1.02	14	0.55	27	1.06	0.25	115
GD1853612	-	½	½	Male BSPT	1	48	1.89	26	1.02	17	0.67	22	0.87	0.27	123
GD1852614	-	¼	¼	Female BSPP	2	58.5	2.30	26	1.02	-	-	17	0.67	0.17	76
GD1852638	¼	¾	¾	Female BSPP	2	61.5	2.42	26	1.02	-	-	22	0.87	0.22	99
GD1852612	-	½	½	Female BSPP	2	65.5	2.58	26	1.02	-	-	27	1.06	0.27	122
GD1855667	-	-	6 mm	Hose Tail	3	47.5	1.87	26	1.02	28	1.10	17	0.67	0.16	73
GD1855678	-	-	7 mm	Hose Tail	3	47.5	1.87	26	1.02	28	1.10	17	0.67	0.16	74
GD1855689	-	-	8 mm	Hose Tail	3	47.5	1.87	26	1.02	28	1.10	17	0.67	0.16	74
GD1855690	-	-	9 mm	Hose Tail	3	47.5	1.87	26	1.02	28	1.10	17	0.67	0.17	75
GD1855601	-	-	10 mm	Hose Tail	3	47.5	1.87	26	1.02	28	1.10	17	0.67	0.17	79
GD1855613	-	-	13 mm	Hose Tail	3	47.5	1.87	26	1.02	33	1.30	17	0.67	0.19	87
GD1855014	-	¼	¼	Female BSPP, Bulkhead*	4	46.5	1.83	26	1.02	17	0.67	27	1.06	0.25	112
GD1855038	-	¾	¾	Female BSPP, Bulkhead**	4	47.5	1.87	26	1.02	20	0.79	32	1.26	0.33	150

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 26 mm (1,02 in).

*Max bulkhead thickness: 10 mm (0,39 in) / Bulkhead hole diameter = 21 mm (0,83 in).

**Max bulkhead thickness: 12 mm (0,47 in) / Bulkhead hole diameter = 25 mm (0,98 in).

Figure 5

Figure 6

Figure 7

Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						D		E		F		Hex1		Hex2	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
GK1866319	-	⅝	⅝	Male BSPP	5	35	1.38	8	0.31	-	-	14	0.55	-	-
GK1866318	-	⅝	⅝	Male BSPT	5	34	1.34	8	0.31	-	-	12	0.47	-	-
GK1866381	-	⅝	⅝	Male NPT	5	34	1.34	10	0.39	-	-	12	0.47	-	-
GK1866315	-	¼	¼	Male BSPP	5	36	1.42	12	0.47	-	-	17	0.67	-	-
GK1866314	-	¼	¼	Male BSPT	5	35.5	1.40	13	0.51	-	-	14	0.55	-	-
GK1866341	-	¼	¼	Male NPT	5	36	1.42	15	0.59	-	-	17	0.67	-	-
GK1866339	-	¾	¾	Male BSPP	5	37	1.46	12	0.47	-	-	22	0.87	-	-
GK1866338	-	¾	¾	Male BSPT	5	37.5	1.48	12	0.47	-	-	19	0.75	-	-
GK1866218	-	⅝	⅝	Female BSPP	6	41.5	1.63	-	-	-	-	14	0.55	-	-
GK1866281	¼	⅝	⅝	Female NPT	6	-	0.00	-	-	-	-	-	0.00	-	-
GK1866214	-	¼	¼	Female BSPP	6	50	1.97	-	-	-	-	17	0.67	-	-
GK1866241	-	¼	¼	Female NPT	6	50	1.97	-	-	-	-	17	0.67	-	-
GK1866238	-	¾	¾	Female BSPP	6	47	1.85	-	-	-	-	21	0.83	-	-
GK1866245	-	M 14	M 14 x 125	Female Metric	6	47.5	1.87	-	-	-	-	17	0.67	-	-
GK1866767	-	-	6 mm	Hose Tail	7	32	1.26	28	1.10	15	0.59	-	-	-	-
GK1866778	-	-	7 mm	Hose Tail	7	32	1.26	28	1.10	15	0.59	-	-	-	-
GK1866789	-	-	8 mm	Hose Tail	7	32	1.26	28	1.10	15	0.59	-	-	-	-
GK1866790	-	-	9 mm	Hose Tail	7	32	1.26	28	1.10	15	0.59	-	-	-	-
GK1866701	-	-	10 mm	Hose Tail	7	32	1.26	28	1.10	15	0.59	-	-	-	-
GK1866713	-	-	13 mm	Hose Tail	7	32	1.26	33	1.30	20	0.79	-	-	-	-

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 26 mm (1,02 in).

Safeline Series ISO 6150 C ID18900/IK18900

Pneumatic application



Danfoss' Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

Global region

Product Features

- Safe and easy to connect and disconnect
 - Light weight, compact ergonomic design
 - Meets Safety Standard ISO 4414
- Meets ISO 6150 Series C Standard
 - Standard body material: Dural
 - Standard seal material: Buna-N
 - Option: Private labelling

Physical characteristics

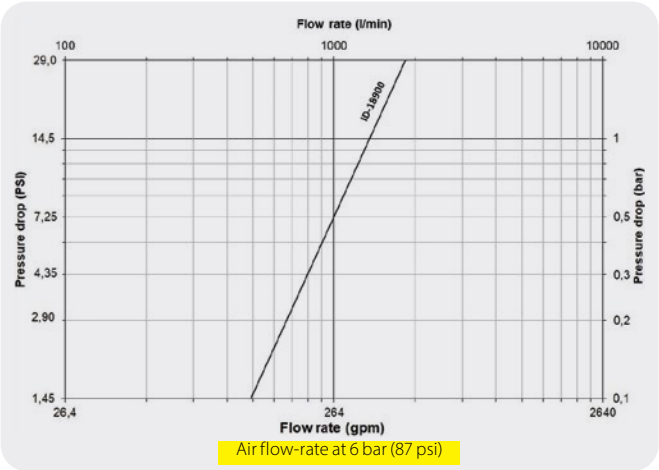
Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate*				Working Temperature	
				Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***			
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
3/8	8	16	232	1,080	285	1,350	356	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Market

- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

Flow Data



Safeline Series ISO 6150 C ID18900/IK18900

Figure 1

Figure 2

Figure 3

Figure 4

Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						A		B		C		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
ID1896015	-	¼	¼	Male BSPP	1	62	2.45	34	1.34	12	0.47	22	0.87	0.35	160
ID1896014	-	¼	¼	Male BSPT	1	62	2.45	34	1.34	13	0.51	22	0.87	0.36	162
ID1896039	-	¾	¾	Male BSPP	1	62	2.45	34	1.34	12	0.47	22	0.87	0.36	165
ID1896038	-	¾	¾	Male BSPT	1	62	2.45	34	1.34	15	0.59	22	0.87	0.37	168
ID1896013	-	½	½	Male BSPP	1	62	2.45	34	1.34	14	0.55	27	1.06	0.37	168
ID1896012	-	½	½	Male BSPT	1	62	2.45	34	1.34	17	0.67	22	0.87	0.40	180
ID1897014	-	¼	¼	Female BSPP	2	74	2.92	34	1.34	-	-	22	0.87	0.40	182
ID1897038	¾	¾	¾	Female BSPP	2	77	3.02	34	1.34	-	-	22	0.87	0.40	180
ID1897012	-	½	½	Female BSPP	2	80	3.16	34	1.34	-	-	27	1.06	0.48	216
ID1895689	-	-	8 mm	Hose Tail	3	63	2.49	34	1.34	28	1.10	22	0.87	0.36	165
ID1895690	-	-	9 mm	Hose Tail	3	63	2.49	34	1.34	28	1.10	22	0.87	0.35	160
ID1895601	-	-	10 mm	Hose Tail	3	63	2.49	34	1.34	28	1.10	22	0.87	0.37	166
ID1895613	-	-	13 mm	Hose Tail	3	63	2.49	34	1.34	33	1.30	22	0.87	0.39	177
ID1895038	-	¾	¾	Female BSPP, Bulkhead*	4	60	2.37	34	1.34	20	0.79	32	1.26	0.52	235
ID1895012	-	½	½	Female BSPP, Bulkhead**	4	61	2.39	34	1.34	23	0.91	35	1.38	0.59	269

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 40 mm (1,57 in).

*Max bulkhead thickness: 12 mm (0,47 in) / Bulkhead hole diameter = 25 mm (0,98 in).

**Max bulkhead thickness: 15 mm (0,59 in) / Bulkhead hole diameter = 31 mm (1,22 in).

Figure 5

Figure 6

Figure 7

Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						D		E		F		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
IK1890615	-	¼	¼	Male BSPP	5	46	1.81	12	0.47	-	-	19	0.75	0.10	44
IK1890614	-	¼	¼	Male BSPT	5	45	1.77	13	0.51	-	-	17	0.67	0.08	38
IK1890641	-	¼	¼	Male NPT	5	45	1.77	13	0.51	-	-	17	0.67	0.09	39
IK1890639	-	¾	¾	Male BSPP	5	46	1.81	12	0.47	-	-	22	0.87	0.11	51
IK1890638	-	¾	¾	Male BSPT	5	45	1.77	15	0.59	-	-	19	0.75	0.11	51
IK1890683	-	¾	¾	Male NPT	5	45	1.77	15	0.59	-	-	19	0.75	0.11	52
IK1890613	-	½	½	Male BSPP	5	46	1.81	14	0.55	-	-	26	1.02	0.16	73
IK1890612	¾	½	½	Male BSPT	5	45	1.77	17	0.67	-	-	22	0.87	0.15	66
IK1890714	-	¼	¼	Female BSPP	6	60	2.36	-	-	-	-	17	0.67	0.09	40
IK1890741	-	¼	¼	Female NPT	6	60	2.36	-	-	-	-	17	0.67	0.09	40
IK1890738	-	¾	¾	Female BSPP	6	60	2.36	-	-	-	-	21	0.83	0.11	52
IK1890783	-	¾	¾	Female NPT	6	60	2.36	-	-	-	-	21	0.83	0.12	55
IK1890712	-	½	½	Female BSPP	6	60	2.36	-	-	-	-	26	1.02	0.15	66
IK1890989	-	-	8 mm	Hose Tail	7	42	1.65	28	1.10	16	0.63	-	-	0.07	33
IK1890990	-	-	9 mm	Hose Tail	7	42	1.65	28	1.10	16	0.63	-	-	0.07	33
IK1890901	-	-	10 mm	Hose Tail	7	42	1.65	28	1.10	16	0.63	-	-	0.08	35
IK1890913	-	-	13 mm	Hose Tail	7	42	1.65	33	1.30	20	0.79	-	-	0.10	46

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 40 mm (1,57 in).

Safeline Series ISO 6150 C TD18300/TK18300

Pneumatic application



Danfoss' Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

Global region

Product Features

- Safe and easy to connect and disconnect
 - Light weight, compact ergonomic design
 - Meets Safety Standard ISO 4414
- Meets ISO 6150 Series C Standard
 - Standard body material: Dural
 - Standard seal material: Buna-N
 - Option: Private labelling

Physical characteristics

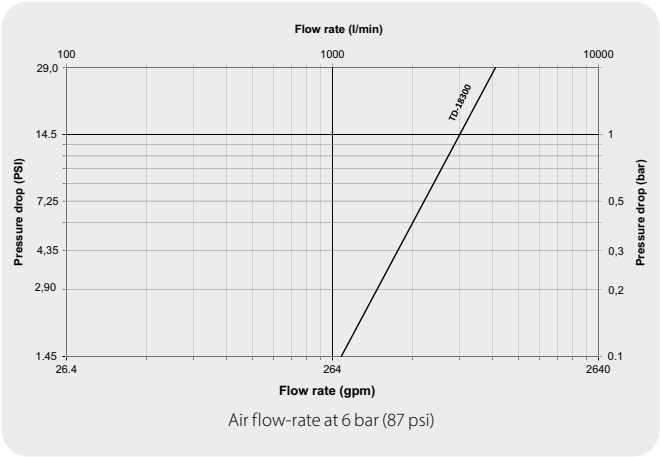
Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate*				Working Temperature	
				Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***			
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
½	11	16	232	2,400	634	3,000	793	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Market

- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

Flow Data



Safeline Series ISO 6150 C TD18300/TK18300

Figure 1

Figure 2

Figure 3

Figure 4

Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions										Weight	
						A		B		C		Hex1		Hex2		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
TD1832012	-	½	½	Male BSPT	1	70.6	2.78	39.5	1.56	17	0.67	27	1.06	-	-	0.58	262
TD1832034	-	¾	¾	Male BSPT	1	70.6	2.78	39.5	1.56	19	0.73	29	1.14	-	-	0.63	287
TD1832138	-	¾	¾	Female BSPP	2	83.1	3.27	39.5	1.56	-	-	27	1.06	-	-	0.62	280
TD1832112	-	½	½	Female BSPP	2	83.1	3.27	39.5	1.56	-	-	27	1.06	-	-	0.58	261
TD1832134	½	¾	¾	Female BSPP	2	89.1	3.51	39.5	1.56	-	-	32	1.26	-	-	0.67	304
TD1835601	-	-	10 mm	Hose Tail	3	72.1	2.84	39.5	1.56	28	1.10	27	1.06	-	-	0.56	256
TD1835613	-	-	13 mm	Hose Tail	3	72.1	2.84	39.5	1.56	33	1.30	27	1.06	-	-	0.59	267
TD1835616	-	-	16 mm	Hose Tail	3	72.1	2.84	39.5	1.56	33	1.30	27	1.06	-	-	0.60	270
TD1835012	-	½	½	Female BSPP, Bulkhead*	4	70.6	2.78	39.5	1.56	23	0.91	35	1.38	-	-	0.76	343
TD1835034	-	¾	¾	Female BSPP, Bulkhead**	4	71.6	2.82	39.5	1.56	25	0.98	38	1.50	-	-	0.77	350

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 20 mm (0,79 in).

*Max bulkhead thickness: 15 mm (0,59 in) / Bulkhead hole diameter = 31 mm (1,22 in).

**Max bulkhead thickness: 16 mm (0,63 in) / Bulkhead hole diameter = 33 mm (1,30 in).

Figure 5

Figure 6

Figure 7

Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						D		E		F		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
TK1831539	-	¾	¾	Male BSPP	5	51.1	2.01	11.9	0.47	-	-	22	0.87	2.32	59
TK1831512	-	½	½	Male BSPT	5	50	1.97	17	0.67	-	-	22	0.87	2.56	65
TK1831534	-	¾	¾	Male BSPT	5	53.5	2.11	18.5	0.73	-	-	29	1.14	3.86	98
TK1831638	-	¾	¾	Female BSPP	6	65	2.56	-	-	-	-	26	1.02	3.70	94
TK1831612	½	½	½	Female BSPP	6	65	2.56	-	-	-	-	26	1.02	3.02	77
TK1831634	-	¾	¾	Female BSPP	6	73	2.87	-	-	-	-	32	1.26	5.02	128
TK1831889	-	-	8 mm	Hose Tail	7	47	1.85	28	1.10	20	0.79	-	-	1.87	48
TK1831801	-	-	10 mm	Hose Tail	7	47	1.85	28	1.10	20	0.79	-	-	1.91	48
TK1831813	-	-	13 mm	Hose Tail	7	47	1.85	33	1.30	20	0.79	-	-	2.19	56
TK1831816	-	-	16 mm	Hose Tail	7	47	1.85	33	1.30	20	0.79	-	-	2.40	61

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 20 mm (0,79 in).

1000/400/500 Series

Pneumatic application



Danfoss Hansen 1000/400/500 Series is an Industrial Interchange pneumatic coupling that is rugged and reliable designed for use with compressed air, gases, and liquids.

Global region

Product Features

- Ball latching mechanism
- Optional sleeve lock prevents accidental disconnection
- All sizes accept US Industrial Interchange
- 1/4" & 1/2" accept ISO 6150 B and A-A-59439 plugs/males
- 400 series accepts Tru-Flate Interchange
- Standard body material: brass, steel and stainless steel with nickel plated steel sleeve
- Standard seal material: Buna-N
- Optional seal materials: Silicone-138, FKM-143, EPDM-192

Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
1000	¼	138	2,000	552	8,000	9	179
400	¾	69	1,000	276	4,000	1,274	336
500	½	35	500	140	2,000	2,038	538

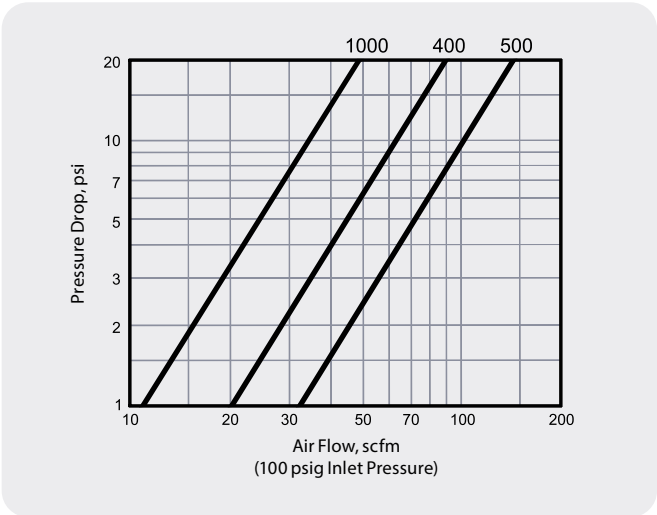
Applications & Markets

- General Pneumatics
- Construction
- Industrial Plants

Interchangeability

All Sizes	1/4" & 1/2"	400 Series
US Industrial Interchange	ISO 6150 Series B A-A-59439 (former MIL-C-4109)	Tru-Flate

Flow Data



1000 Series

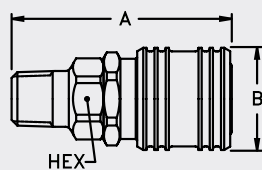


Figure 1

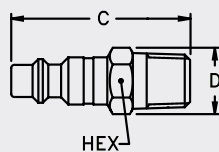


Figure 2

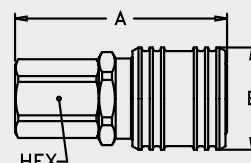


Figure 3

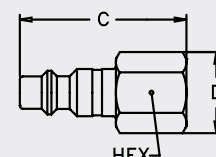


Figure 4

Male NPTF Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
900	Socket/Female	¼	⅜	⅝-27	NPTF	Brass	1	50.04	1.97	25.40	1.00	17.53	0.69
1100	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	54.86	2.16	25.40	1.00	17.53	0.69
1300	Socket/Female	¼	⅜	⅝-18	NPTF	Brass	1	53.85	2.12	25.40	1.00	17.53	0.69
LL1100	Socket/Female	¼	¼	¼-18	NPTF	Stainless	1	54.86	2.16	25.40	1.00	17.53	0.69

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
10	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	15.75	0.62	14.22	0.56
10C§	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	16.51	0.65	14.22	0.56
10G†	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	16.51	0.65	14.22	0.56
12E	Plug/Male	¼	⅜	⅝-27	NPTF	Steel	2	40.38	1.59	14.73	0.58	12.7	0.50
12G†	Plug/Male	¼	⅜	⅝-27	NPTF	Steel	2	60.45	2.38	19.55	0.77	17.52	0.69
12100412	Plug/Male	¼	⅜	⅝-18	NPTF	Steel	2	44.45	1.75	20.06	0.79	17.52	0.69
14G†	Plug/Male	¼	⅜	⅝-18	NPTF	Steel	2	64.26	2.53	19.55	0.77	17.52	0.69
B10	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	44.45	1.75	16.25	0.62	14.22	0.56
LL10	Plug/Male	¼	¼	¼-18	NPTF	Stainless	2	44.45	1.75	16.51	0.62	14.22	0.56
10NK*	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	15.75	0.62	14.22	0.56

§ With Ball Check †With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

Female NPTF Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
800E	Socket/Female	¼	⅜	⅝-27	NPTF	Brass	3	47.24	1.86	25.40	1.00	17.53	0.69
1000E	Socket/Female	¼	¼	¼-18	NPTF	Brass	3	52.83	2.08	25.40	1.00	17.53	0.69
1200	Socket/Female	¼	⅜	⅝-18	NPTF	Brass	3	54.86	2.16	25.40	1.00	19.05	0.75
LL1000	Socket/Female	¼	¼	¼-18	NPTF	Stainless	3	52.83	2.08	25.40	1.00	17.53	0.69

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
11	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69
11G†	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	61.98	2.44	19.56	0.77	17.53	0.69
13	Plug/Male	¼	⅜	⅝-27	NPTF	Steel	4	37.34	1.47	16.51	0.65	14.22	0.56
15E	Plug/Male	¼	⅜	⅝-18	NPTF	Steel	4	42.93	1.69	23.88	0.94	20.57	0.81
11B	Plug/Male	¼	¼	¼-18	NPTF	Brass	4	41.40	1.63	19.81	0.78	17.53	0.69
LL11	Plug/Male	¼	¼	¼-18	NPTF	Stainless	4	41.40	1.63	20.07	0.79	17.53	0.69
11NK*	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

1000 Series

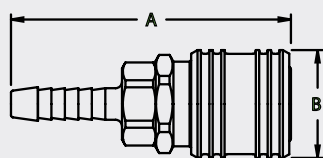


Figure 5

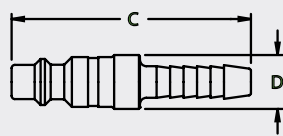
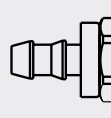
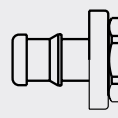


Figure 6

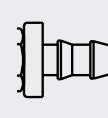


1600P

Figure 5A

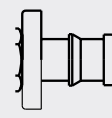


1700P



16P

Figure 6A



17P

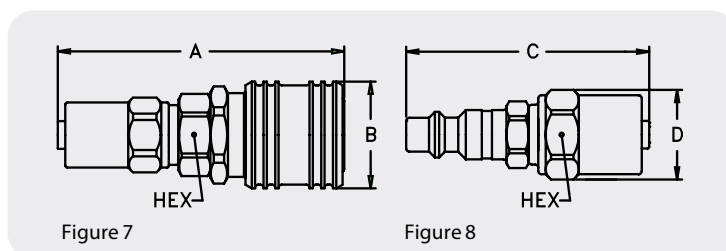
Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A	B		
						(mm)	(in)	(mm)	(in)
1600E	Socket/Female	¼	¼	Brass	5	66.04	2.60	25.40	1.00
1600P†	Socket/Female	¼	¼	Brass	5, 5A	60.20	2.37	25.40	1.00
1700E	Socket/Female	¼	⅜	Brass	5	66.04	2.60	25.40	1.00
1700P†	Socket/Female	¼	⅜	Brass	5, 5A	61.98	2.44	25.40	1.00
1800	Socket/Female	¼	⅝	Brass	5	66.04	2.60	25.40	1.00

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C	D		
						(mm)	(in)	(mm)	(in)
12103875	Plug/Male	¼	¼	Steel	6	56.39	2.22	12.70	0.50
16G†	Plug/Male	¼	¼	Steel	6	75.44	2.97	19.56	0.77
16P†	Plug/Male	¼	¼	Steel	6, 6A	50.80	2.00	14.73	0.58
17	Plug/Male	¼	⅜	Steel	6	56.39	2.22	12.70	0.5
17G†	Plug/Male	¼	⅜	Steel	6	75.18	2.96	19.56	0.77
17P†	Plug/Male	¼	⅜	Steel	6, 6A	52.32	2.06	12.70	0.5
18E	Plug/Male	¼	⅝	Steel	6	56.39	2.22	12.70	0.50
B17	Plug/Male	¼	⅜	Brass	6	56.39	2.22	12.70	0.5
16NK*	Plug/Male	¼	¼	Steel	6	56.39	2.22	12.70	0.50
17NK*	Plug/Male	¼	⅜	Steel	6	56.39	2.22	12.70	0.5

†With Bleeder Ball Check—Reduces Hose Whip ‡ For use with push-on style hose *Nickel plated

1000 Series



Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
1SB1	Socket/Female	¼	¼	1½₂	Brass	7	68.33	2.69	25.40	1.00	17.53	0.69
1SB3	Socket/Female	¼	¼	½	Brass	7	68.33	2.69	25.40	1.00	17.53	0.69
1SB5E	Socket/Female	¼	¼	¾	Brass	7	68.33	2.69	25.40	1.00	17.53	0.69
1SB7	Socket/Female	¼	¼	¾	Brass	7	68.33	2.69	25.40	1.00	17.53	0.69
1SC5	Socket/Female	¼	¾	¾	Brass	7	69.85	2.75	25.40	1.00	17.53	0.69
1SC7	Socket/Female	¼	¾	¾	Brass	7	69.85	2.75	25.40	1.00	17.53	0.69
1SC9	Socket/Female	¼	¾	1¼₆	Brass	7	69.85	2.75	25.40	1.00	17.53	0.69
1SD5	Socket/Female	¼	¾	¾	Brass	7	71.37	2.81	25.40	1.00	17.53	0.69
1SD7	Socket/Female	¼	¾	¾	Brass	7	71.37	2.81	25.40	1.00	17.53	0.69
1SD9	Socket/Female	¼	¾	1¼₆	Brass	7	71.37	2.81	25.40	1.00	17.53	0.69
1SD11	Socket/Female	¼	¾	¾	Brass	7	71.37	2.81	25.40	1.00	17.53	0.69

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3PB1	Plug/Male	¼	¼	15⁄32	Steel	8	58.67	2.31	17.78	0.70	16.00	0.63
3PB3	Plug/Male	¼	¼	½	Steel	8	58.67	2.31	17.78	0.70	16.00	0.63
3PB5	Plug/Male	¼	¼	⅝	Steel	8	58.67	2.31	19.56	0.77	17.53	0.69
3PB7	Plug/Male	¼	¼	¾	Steel	8	58.67	2.31	21.34	0.84	19.05	0.75
3PB9	Plug/Male	¼	¼	11⁄16	Steel	8	58.67	2.31	23.88	0.94	20.57	0.81
3PB11	Plug/Male	¼	¼	¾	Steel	8	58.67	2.31	24.89	0.98	22.35	0.88
3PC5	Plug/Male	¼	⅝	⅝	Steel	8	60.45	2.38	19.56	0.77	17.53	0.69
3PC7	Plug/Male	¼	⅝	¾	Steel	8	60.45	2.38	21.34	0.84	19.05	0.75
3PC9	Plug/Male	¼	⅝	11⁄16	Steel	8	60.45	2.38	23.11	0.91	20.57	0.81
3PD5	Plug/Male	¼	¾	⅝	Steel	8	61.98	2.44	19.56	0.77	17.53	0.69
3PD7	Plug/Male	¼	¾	¾	Steel	8	61.98	2.44	21.34	0.84	19.05	0.75
3PD9	Plug/Male	¼	¾	11⁄16	Steel	8	61.98	2.44	23.11	0.91	20.57	0.81
3PD11	Plug/Male	¼	¾	¾	Steel	8	61.98	2.44	25.65	1.01	22.35	0.88

400 Series

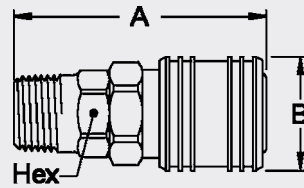


Figure 1

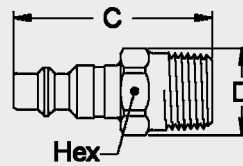


Figure 2

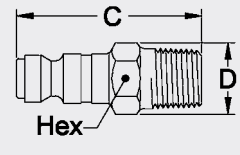


Figure 2A

Male NPTF Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
410	Socket/Female	3/8	1/4	1/4-18	NPTF	Brass	1	59.69	2.35	28.70	1.13	22.35	0.88
430	Socket/Female	3/8	3/8	3/8-18	NPTF	Brass	1	59.69	2.35	28.70	1.13	22.35	0.88
450	Socket/Female	3/8	1/2	1/2-14	NPTF	Brass	1	64.52	2.54	28.70	1.13	22.35	0.88

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
38	Plug/Male	3/8	1/8	1/8-27	NPTF	Steel	2	43.69	1.72	18.29	0.72	16.00	0.63
40	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2	47.75	1.88	18.29	0.72	16.00	0.63
40NK*	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2	47.75	1.88	18.29	0.72	16.00	0.63
40G†	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2	67.31	2.65	19.56	0.77	17.53	0.69
42	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	2	47.75	1.88	20.07	0.79	17.53	0.69
42G†	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	2	67.31	2.65	19.56	0.77	17.53	0.69
44	Plug/Male	3/8	1/2	1/2-14	NPTF	Steel	2	53.09	2.09	25.65	1.01	22.35	0.88
B40	Plug/Male	3/8	1/4	1/4-18	NPTF	Brass	2	47.75	1.88	17.78	0.70	16.00	0.63
B42	Plug/Male	3/8	3/8	3/8-18	NPTF	Brass	2	47.75	1.88	19.56	0.77	17.53	0.69
31AP25M	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2A	46.99	1.85	18.29	0.72	16.00	0.63
31AP37M	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	2A	46.99	1.85	20.07	0.79	17.53	0.69

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

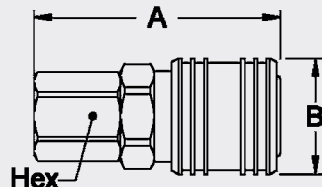


Figure 3

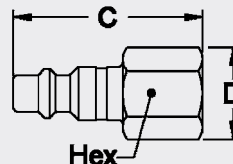


Figure 4

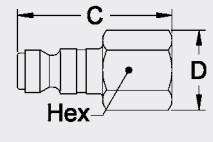


Figure 4A

Female NPTF Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
400	Socket/Female	3/8	1/4	1/4-18	NPTF	Brass	3	53.34	2.10	28.70	1.13	22.35	0.88
420	Socket/Female	3/8	3/8	3/8-18	NPTF	Brass	3	59.69	2.35	28.70	1.13	22.35	0.88
440	Socket/Female	3/8	1/2	1/2-14	NPTF	Brass	3	66.55	2.62	28.70	1.13	25.40	1.00

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
41	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69
41NK*	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69
41G†	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4	65.02	2.56	19.56	0.77	17.53	0.69
43	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	4	45.97	1.81	23.88	0.94	20.57	0.81
43G†	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	4	66.55	2.62	21.34	0.84	19.05	0.75
45E	Plug/Male	3/8	1/2	1/2-14	NPTF	Steel	4	52.32	2.06	29.21	1.15	25.40	1.00
B43	Plug/Male	3/8	3/8	3/8-18	NPTF	Brass	4	45.97	1.81	23.11	0.91	20.57	0.81
31AP25F	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4A	40.64	1.60	20.07	0.79	17.53	0.69
31AP37F	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	4A	45.21	1.78	23.88	0.94	20.57	0.81

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

400 Series

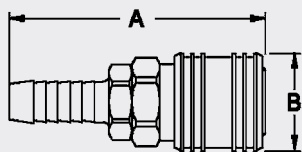


Figure 5

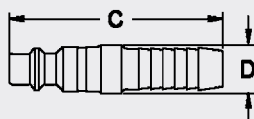


Figure 6

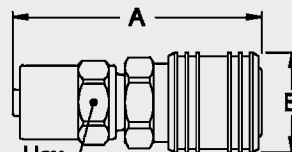


Figure 7

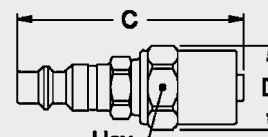


Figure 8

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A	B		
						(mm)	(in)	(mm)	(in)
4004E	Socket/Female	3/8	1/4	Brass	5	71.63	2.82	28.70	1.13
4050E	Socket/Female	3/8	3/8	Brass	5	71.63	2.82	28.70	1.13
4006E	Socket/Female	3/8	3/8	Brass	5	71.63	2.82	28.70	1.13
4008E	Socket/Female	3/8	1/2	Brass	5	71.63	2.82	28.70	1.13

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C	D		
						(mm)	(in)	(mm)	(in)
404	Plug/Male	3/8	1/4	Steel	6	59.44	2.34	18.29	0.72
406	Plug/Male	3/8	3/8	Steel	6	59.44	2.34	16.00	0.63
408	Plug/Male	3/8	1/2	Steel	6	59.44	2.34	20.57	0.81
B406E	Plug/Male	3/8	3/8	Brass	6	59.44	2.34	16.00	0.63

Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							A	B	Hex			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
40SD7	Socket/Female	3/8	3/8	3/8	Brass	7	77.22	3.04	28.70	1.13	19.05	0.75
40SD9	Socket/Female	3/8	3/8	11/16	Brass	7	77.22	3.04	28.70	1.13	20.57	0.81
40SD11	Socket/Female	3/8	3/8	3/4	Brass	7	77.22	3.04	28.70	1.13	22.35	0.88
40SP13	Socket/Female	3/8	1/2	13/16	Brass	7	93.22	3.67	28.70	1.13	23.88	0.94
40SP15	Socket/Female	3/8	1/2	7/8	Brass	7	93.22	3.67	28.70	1.13	25.40	1.00
40SP17	Socket/Female	3/8	1/2	5/8	Brass	7	93.22	3.67	28.70	1.13	25.40	1.00
40SP19	Socket/Female	3/8	1/2	1	Brass	7	93.22	3.67	28.70	1.13	28.70	1.13

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							C	D	Hex			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
4PB3	Plug/Male	3/8	1/4	1/2	Steel	8	61.98	2.44	17.78	0.70	16.00	0.63
4PB5	Plug/Male	3/8	1/4	9/16	Steel	8	61.98	2.44	19.56	0.77	17.53	0.69
4PB7	Plug/Male	3/8	1/4	5/8	Steel	8	61.98	2.44	21.34	0.84	19.05	0.75
4PD7	Plug/Male	3/8	3/8	5/8	Steel	8	65.02	2.56	21.34	0.84	19.05	0.75
4PD9	Plug/Male	3/8	3/8	11/16	Steel	8	65.02	2.56	23.11	0.91	20.57	0.81
4PD11	Plug/Male	3/8	3/8	3/4	Steel	8	65.02	2.56	24.89	0.98	22.35	0.88
4PD15	Plug/Male	3/8	3/8	7/8	Steel	8	65.02	2.56	28.45	1.12	25.40	1.00
4PP13	Plug/Male	3/8	1/2	13/16	Steel	8	82.55	3.25	26.67	1.05	23.88	0.94
4PP15	Plug/Male	3/8	1/2	7/8	Steel	8	82.55	3.25	28.45	1.12	25.40	1.00
4PP19	Plug/Male	3/8	1/2	1	Steel	8	82.55	3.25	32.00	1.26	28.58	1.13

Dust Plugs

Series	Dust Plug Number
1000	XPSDC1HK
400	XPSDC2HK



Vinyl Dust Plug

500 Series

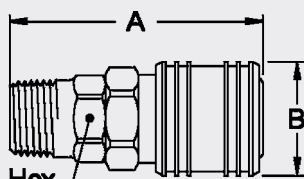


Figure 1

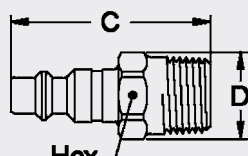


Figure 2

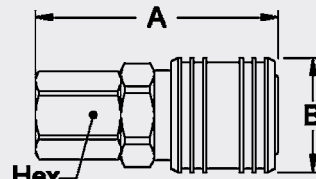


Figure 3

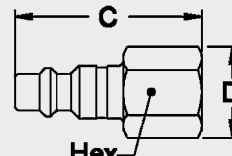


Figure 4

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
501	Socket/Female	½	¼	¼-18	NPTF	Brass	1	70.36	2.77	30.23	1.19	25.40	1.00
510	Socket/Female	½	⅜	⅜-18	NPTF	Brass	1	70.61	2.78	30.23	1.19	25.40	1.00
530E	Socket/Female	½	½	½-14	NPTF	Brass	1	75.44	2.97	30.23	1.19	25.40	1.00
550	Socket/Female	½	¾	¾-14	NPTF	Brass	1	75.44	2.97	30.23	1.19	26.92	1.06
530143	Socket/Female	½	½	½-14	NPTF	Brass	1	75.44	2.97	30.23	1.19	25.40	1.00
550NV	Socket/Female	½	¾	¾-14	NPTF	Brass	1	75.44	2.97	30.23	1.19	26.92	1.06

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
50E	Plug/Male	½	¼	¼-18	NPTF	Steel	2	57.15	2.25	20.07	0.79	17.53	0.69
50G†	Plug/Male	½	¼	¼-18	NPTF	Steel	2	73.66	2.90	24.89	0.98	22.35	0.88
52	Plug/Male	½	⅜	⅜-18	NPTF	Steel	2	57.15	2.25	22.10	0.87	19.05	0.75
52G†	Plug/Male	½	⅜	⅜-18	NPTF	Steel	2	73.66	2.90	24.89	0.98	22.35	0.88
54E	Plug/Male	½	½	½-14	NPTF	Steel	2	61.98	2.44	25.65	1.01	22.35	0.88
54G†	Plug/Male	½	½	½-14	NPTF	Steel	2	78.49	3.09	24.89	0.98	22.35	0.88
56	Plug/Male	½	¾	¾-14	NPTF	Steel	2	63.50	2.50	31.24	1.23	26.92	1.06
56G†	Plug/Male	½	¾	¾-14	NPTF	Steel	2	79.76	3.14	30.23	1.19	26.92	1.06
B52	Plug/Male	½	⅜	⅜-18	NPTF	Brass	2	57.15	2.25	22.10	0.87	19.05	0.75
B54	Plug/Male	½	½	½-14	NPTF	Brass	2	61.98	2.44	25.65	1.01	22.35	0.88

†With Bleeder Ball Check—Reduces Hose Whip.

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
500A	Socket/Female	½	¼	¼-18	NPTF	Brass	3	69.1	2.72	30.2	1.19	25.4	1.00
500	Socket/Female	½	⅜	⅜-18	NPTF	Brass	3	70.6	2.78	30.2	1.19	25.4	1.00
520	Socket/Female	½	½	½-14	NPTF	Brass	3	77.7	3.06	30.2	1.19	25.4	1.00
540	Socket/Female	½	¾	¾-14	NPTF	Brass	3	78.5	3.09	30.2	1.19	30.2	1.19

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
53A	Plug/Male	½	¼	¼-18	NPTF	Steel	4	48.8	1.92	20.1	0.79	17.5	0.69
53	Plug/Male	½	⅜	⅜-18	NPTF	Steel	4	52.3	2.06	23.9	0.94	20.6	0.81
53G†	Plug/Male	½	⅜	⅜-18	NPTF	Steel	4	73.7	2.90	24.9	0.98	22.4	0.88
55	Plug/Male	½	½	½-14	NPTF	Steel	4	59.4	2.34	29.2	1.15	25.4	1.00
55G†	Plug/Male	½	½	½-14	NPTF	Steel	4	80.5	3.17	29.2	1.15	25.4	1.00
57	Plug/Male	½	¾	¾-14	NPTF	Steel	4	62.0	2.44	34.8	1.37	30.2	1.19

†With Bleeder Ball Check—Reduces Hose Whip.

500 Series

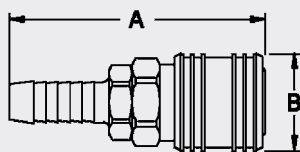


Figure 5

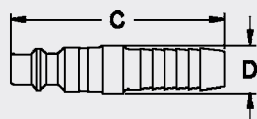


Figure 6

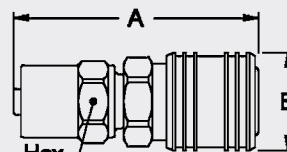


Figure 7

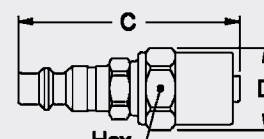


Figure 8

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A	B		
						(mm)	(in)	(mm)	(in)
570	Socket/Female	½	⅜	Brass	5	84.3	3.32	30.2	1.19
580	Socket/Female	½	½	Brass	5	82.3	3.24	30.2	1.19
590	Socket/Female	½	¾	Brass	5	103.9	4.09	30.2	1.19

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C	D		
						(mm)	(in)	(mm)	(in)
585	Plug/Male	½	⅜	Steel	6	67.6	2.66	17.5	0.69
585G†	Plug/Male	½	⅜	Brass	6	85.6	3.37	24.9	0.98
59	Plug/Male	½	⅜	Steel	6	67.6	2.66	17.5	0.69
59G†	Plug/Male	½	⅜	Brass	6	85.6	3.37	24.9	0.98
60	Plug/Male	½	½	Steel	6	67.6	2.66	19.1	0.75
60G†	Plug/Male	½	½	Brass	6	85.6	3.37	24.9	0.98
61E	Plug/Male	½	¾	Steel	6	88.9	3.50	25.4	1.00
61G†	Plug/Male	½	¾	Brass	6	107.2	4.22	25.4	1.00

†With Bleeder Ball Check—Reduces Hose Whip.

Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							A	B	Hex			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
50SP13	Socket/Female	½	½	⅜	Brass	7	103.9	4.09	30.2	1.19	23.9	0.94
50SP15	Socket/Female	½	½	⅞	Brass	7	103.9	4.09	30.2	1.19	25.4	1.00
5019E	Socket/Female	½	½	1	Brass	7	103.9	4.09	32.0	1.26	28.7	1.13
50SR23	Socket/Female	½	¾	1 ⅛	Brass	7	107.2	4.22	30.2	1.19	31.8	1.25
50SR25	Socket/Female	½	¾	1 ⅜	Brass	7	107.2	4.22	30.2	1.19	33.3	1.31
50SR27	Socket/Female	½	¾	1 ¼	Brass	7	107.2	4.22	30.2	1.19	35.1	1.38

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							C	D	Hex			
							(mm)	(in)	(mm)	(in)	(mm)	(in)
5PB3	Plug/Male	½	¼	½	Steel	8	71.4	2.81	17.8	0.70	16.0	0.63
5PB5	Plug/Male	½	¼	⅝	Steel	8	71.4	2.81	19.6	0.77	17.5	0.69
5PB7	Plug/Male	½	¼	⅞	Steel	8	71.4	2.81	21.3	0.84	19.1	0.75
5PD5	Plug/Male	½	⅜	⅝	Steel	8	74.7	2.94	19.6	0.77	17.5	0.69
5PD7	Plug/Male	½	⅜	⅞	Steel	8	74.7	2.94	21.3	0.84	19.1	0.75
5PD9	Plug/Male	½	⅜	1 ⅛	Steel	8	74.7	2.94	23.1	0.91	20.6	0.81
5PD11	Plug/Male	½	⅜	¾	Steel	8	74.7	2.94	24.9	0.98	22.4	0.88
5PD13	Plug/Male	½	⅜	1 ⅛	Steel	8	74.7	2.94	26.7	1.05	23.9	0.94
5PP13	Plug/Male	½	½	1 ⅛	Steel	8	91.9	3.62	26.7	1.05	23.9	0.94
5PP15	Plug/Male	½	½	⅞	Steel	8	91.9	3.62	28.4	1.12	25.4	1.00
5PR23	Plug/Male	½	¾	1 ⅛	Steel	8	95.3	3.75	35.6	1.40	31.8	1.25
5PR25	Plug/Male	½	¾	1 ⅜	Steel	8	95.3	3.75	37.3	1.47	33.3	1.31
5PR27	Plug/Male	½	¾	1 1/4	Steel	8	95.3	3.75	39.1	1.54	35.1	1.38

G600 Series ISO 6150 B Interchange

Pneumatic application



Danfoss Hansen G600 Series is a single shut-off compressed air coupling that incherchanges with ISO 6150 B and US A-A-59439 Standards requirements. Nominal diameter is 5.5 mm. Its new revamped design and the materials used make it a rugged and long-lasting coupling, offered in a wide selection of end connections. It is used in general pneumatic applications.

Product Features

- Automatic sleeve for one-hand pushto-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Shock-resistant ergonomic sleeve
- Standard body material (Socket): Nickel-plated brass
- Standard body material (Plug): Zinc trivalent-plated steel
- Standard seal material: NBR
- Option: Private labelling

Physical characteristics

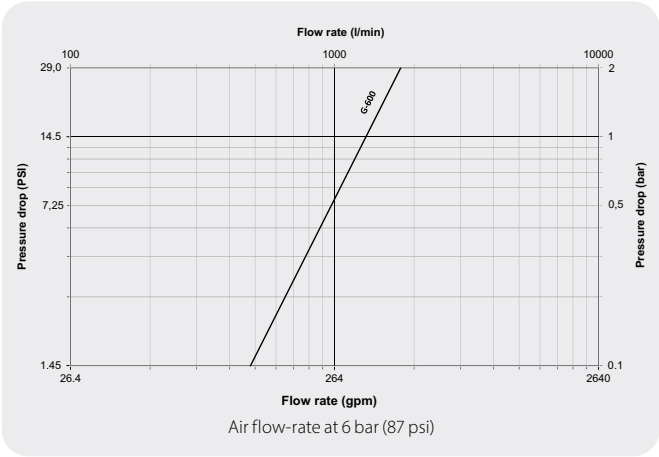
Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
¼	5.5	20	290	1,050	277	1,315	347	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Market

- Compressed Air
- Pneumatic Tools

Flow Data



G600 Series ISO 6150 B Interchange

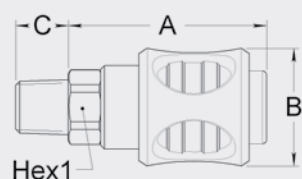


Figure 1

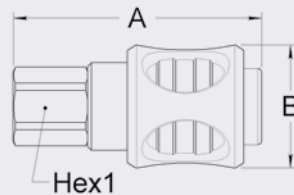


Figure 2

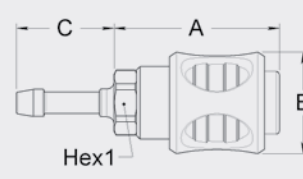


Figure 3

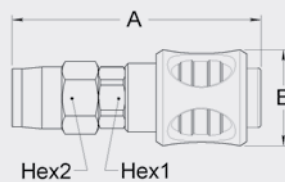


Figure 4

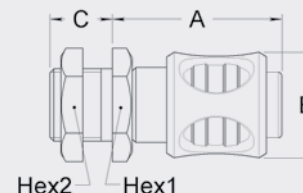


Figure 5

Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						A		B		C		Hex1		Hex2	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
GL0063614	-	1/4	1/4-19	Male BSPT	1	49	1.93	29	1.14	13	0.51	17	0.67	-	-
GL0063638	-	3/8	3/8-19	Male BSPT	1	49	1.93	29	1.14	14.5	0.57	17	0.67	-	-
GL0063612	-	1/2	1/2-14	Male BSPT	1	48	1.89	29	1.14	17	0.67	22	0.87	-	-
GL0063645	-	M14	M14x1,25	Male Metric	1	49	1.93	29	1.14	13	0.51	17	0.67	-	-
GL0062614	-	1/4	1/4-19	Female BSPP	2	58.5	2.30	29	1.14	-	-	17	0.67	-	-
GL0062638	-	3/8	3/8-19	Female BSPP	2	61.5	2.42	29	1.14	-	-	22	0.87	-	-
GL0062645	-	M14	M14x1,25	Female Metric	2	59.5	2.34	29	1.14	-	-	17	0.67	-	-
GL0065667	-	-	6 mm	Hose Tail	3	47.5	1.87	29	1.14	28	1.10	17	0.67	-	-
GL0065678	1/4	-	7 mm	Hose Tail	3	47.5	1.87	29	1.14	28	1.10	17	0.67	-	-
GL0065689	-	-	8 mm	Hose Tail	3	47.5	1.87	29	1.14	28	1.10	17	0.67	-	-
GL0065690	-	-	9 mm	Hose Tail	3	47.5	1.87	29	1.14	28	1.10	17	0.67	-	-
GL0065601	-	-	10 mm	Hose Tail	3	47.5	1.87	29	1.14	28	1.10	17	0.67	-	-
GL0061674	-	-	7x14 mm	Reusable Hose Fit.	4	75	2.95	29	1.14	-	-	17	0.67	19	0.75
GL0061684	-	-	8x14 mm	Reusable Hose Fit.	4	75	2.95	29	1.14	-	-	17	0.67	19	0.75
GL0061685	-	-	8x15 mm	Reusable Hose Fit.	4	75	2.95	29	1.14	-	-	17	0.67	19	0.75
GL0061696	-	-	9x16mm	Reusable Hose Fit.	4	75	2.95	29	1.14	-	-	17	0.67	19	0.75
GL0065014	-	1/4	1/4-19	Female BSPPBulkhead**	5	46.5	1.83	29	1.14	17	0.67	27	1.06	27	1.06

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3, 4, 5) and D or D+E (Fig. 6, 7, 8, 9, 10) together and subtract 20 mm (0.79 in.).

*Alternative end connections available upon request.

**Max bulkhead thickness: 10 mm (0.39 in.) / Bulkhead hole diameter: 21 mm (0.83 in.).

G600 Series ISO 6150 B Interchange

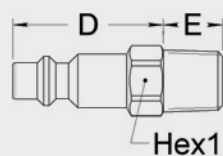


Figure 6

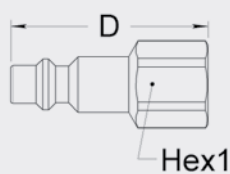


Figure 7

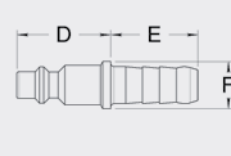


Figure 8

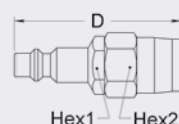


Figure 9

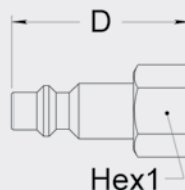


Figure 10

Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.	Type	Fig.	Dimensions								Weight	
						D		E		F		Hex1		Hex2	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
GA0066318	-	1/8	1/8-28	Male BSPT	6	32	1.26	9	0.35	-	-	12	0.47	-	-
GA0066314	-	1/4	1/4-19	Male BSPT	6	32	1.26	13	0.51	-	-	14	0.55	-	-
10	-	1/4	1/4-18	Male NPT	6	31	1.22	14	0.55	-	-	15	0.59	-	-
GA0066338	-	1/8	3/8-19	Male BSPT	6	32	1.26	15	0.59	-	-	17	0.67	-	-
GA0066345	-	M14	M14x1,25	Male Metric	6	32	1.26	13	0.51	-	-	14	0.55	-	-
GA0066214	-	1/4	1/4-19	Female BSPP	7	44	1.73	-	-	-	-	17	0.67	-	-
11	-	1/4	1/4-18	Female NPT	7	41.5	1.63	-	-	-	-	18	0.71	-	-
GA0066238	-	3/8	3/8-19	Female BSPP	7	44	1.73	-	-	-	-	21	0.83	-	-
GA0066245	-	M14	M14x1,25	Female Metric	7	44	1.73	-	-	-	-	17	0.67	-	-
GA0066248	1/4	-	M10,4x0,80	Female Metric	7	44	1.73	-	-	-	-	14	0.55	-	-
GA0066767	-	-	6mm	Hose Tail	8	28	1.10	26	1.02	14	0.55	-	-	-	-
GA0066778	-	-	7mm	Hose Tail	8	28	1.10	26	1.02	14	0.55	-	-	-	-
GA0066789	-	-	8mm	Hose Tail	8	28	1.10	26	1.02	14	0.55	-	-	-	-
GA0066790	-	-	9mm	Hose Tail	8	28	1.10	26	1.02	14	0.55	-	-	-	-
GA0066701	-	-	10mm	Hose Tail	8	28	1.10	26	1.02	14	0.55	-	-	-	-
GA0066174	-	-	7x14 mm	Reusable Hose Fit.	9	56.5	2.22	-	-	-	-	16	0.63	19	0.75
GA0066184	-	-	8x14 mm	Reusable Hose Fit.	9	56.5	2.22	-	-	-	-	16	0.63	19	0.75
GA0066185	-	-	8x15 mm	Reusable Hose Fit.	9	56.5	2.22	-	-	-	-	16	0.63	19	0.75
GA0066196	-	-	9x16 mm	Reusable Hose Fit.	9	56.5	2.22	-	-	-	-	16	0.63	19	0.75
GA0066814	-	1/4	1/4-19	Female BSPP Swivel	10	38	1.50	-	-	-	-	17	0.67	-	-
GA0066845	-	M14	M14x1,25	Female Metric Swivel	10	38	1.50	-	-	-	-	17	0.67	-	-

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3, 4, 5) and D or D+E (Fig. 6, 7, 8, 9, 10) together and subtract 20 mm (0.79 in).

*Alternative end connections available upon request.

I900 Series ISO 6150 B Interchange

Pneumatic application



Danfoss Hansen I900 Series is a single shut-off compressed air coupling that interchanges with ISO 6150 B and US A-A-59439 Standards requirements. Nominal diameter is 8 mm.

Product Features

- Automatic sleeve for one-hand pushto-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel-plated brass
- Standard body material (Plug): Zinc trivalent-plated steel
- Standard seal material: NBR

Physical characteristics

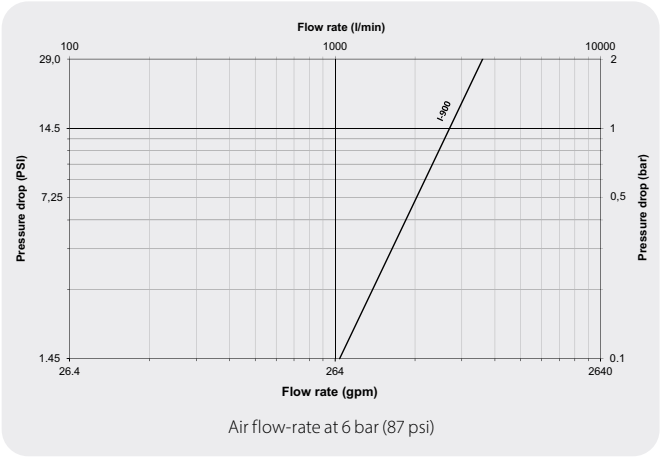
Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
3/8	8	20	290	2,200	580	2,700	710	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar/87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Market

- Compressed Air
- Pneumatic Tools

Flow Data



I900 Series ISO 6150 B Interchange

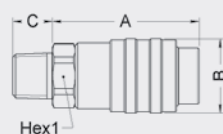


Figure 1

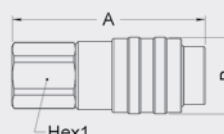


Figure 2

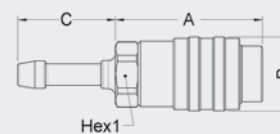


Figure 3

Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions								Weight	
						A		B		C		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
IL0096014	-	¼	¼-19	Male BSPT	1	55	2.16	27.7	1.09	13	0.51	22	0.87	0.30	135
IL0096038	-	¾	¾-19	Male BSPT	1	55	2.16	27.7	1.09	15	0.59	22	0.87	0.31	139
IL0096012	-	½	½-14	Male BSPT	1	55	2.16	27.7	1.09	17	0.67	22	0.87	0.34	152
IL0097014	-	¼	¼-19	Female BSPP	2	67	2.64	27.7	1.09	-	-	22	0.87	0.34	153
IL0097038	-	¾	¾-19	Female BSPP	2	70	2.76	27.7	1.09	-	-	22	0.87	0.35	157
IL0097012	-	½	½-14	Female BSPP	2	73	2.87	27.7	1.09	-	-	27	1.06	0.41	187
IL0095689	-	-	8 mm	Hose Tail	3	56	2.20	27.7	1.09	28	1.10	22	0.87	0.30	135
IL0095690	-	-	9 mm	Hose Tail	3	56	2.20	27.7	1.09	28	1.10	22	0.87	0.30	138
IL0095601	-	-	10 mm	Hose Tail	3	56	2.20	27.7	1.09	28	1.10	22	0.87	0.31	139

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25,6 mm (1 in.)

*Alternative end connections available upon request.

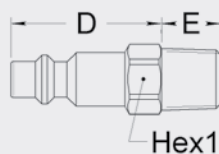


Figure 4

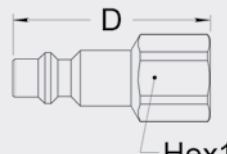


Figure 5

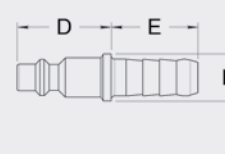


Figure 6

Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions								Weight	
						D		E		F		Hex1		lbs	grams
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
IA0090614	-	¼	¼-19	Male BSPT	4	34	1.34	13	0.51	-	-	16	0.63	0.07	32
IA0090638	-	¾	¾-19	Male BSPT	4	36	1.42	15	0.59	-	-	17	0.67	0.09	41
IA0090612	-	½	½-14	Male BSPT	4	40	1.57	17	0.67	-	-	23	0.91	0.12	56
IA0090714	-	¼	¼-19	Female BSPP	5	50	1.97	-	-	-	-	17	0.67	0.08	38
IA0090738	-	¾	¾-19	Female BSPP	5	50	1.97	-	-	-	-	21	0.83	0.11	49
IA0090712	-	½	½-14	Female BSPP	5	53	2.09	-	-	-	-	26	1.02	0.15	69
IA0090978	-	-	7 mm	Hose Tail	6	33	1.30	26	1.02	16	0.63	-	-	0.07	30
IA0090989	-	-	8 mm	Hose Tail	6	33	1.30	26	1.02	16	0.63	-	-	0.07	30
IA0090990	-	-	9 mm	Hose Tail	6	33	1.30	26	1.02	16	0.63	-	-	0.07	31
IA0090901	-	-	10 mm	Hose Tail	6	33	1.30	26	1.02	16	0.63	-	-	0.07	32
IA0090912	-	-	12 mm	Hose Tail	6	33	1.30	31	1.22	16	0.63	-	-	0.08	38

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25,6 mm (1 in.)

*Alternative end connections available upon request.

T1100 Series ISO 6150 B Interchange

Pneumatic application



Danfoss Hansen T1100 Series is a single shut-off compressed air coupling that interchanges with ISO 6150 B and US A-A-59439 Standards requirements. This coupling offers excellent flow capacity and is used in many compressed air applications.

EMEA region

Product Features

- Automatic sleeve for one-hand pushto-connect operation with ball-locking mechanism
 - Single shut-off valving
 - Excellent flow capacity
- Easy to connect
 - Standard body material (Socket): Nickel-plated brass
 - Standard body material (Plug): Zinc trivalent plated steel
 - Standard seal material: NBR

Physical characteristics

Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
½	11	20	290	3,450	910	4,300	1,130	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar/87 psi.

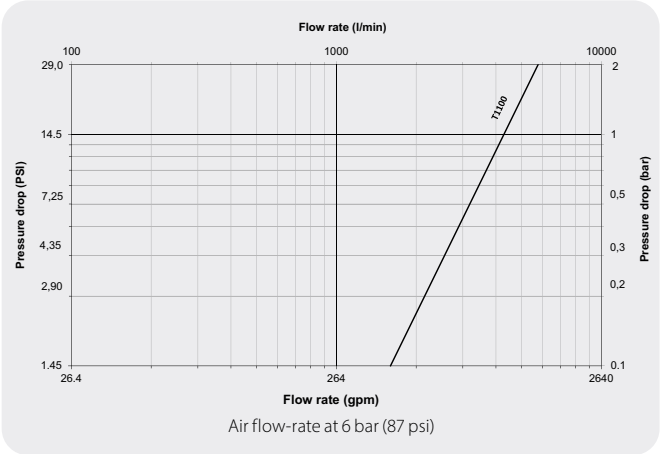
**This flow rate allows the optimum output from a pneumatic tool.

*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

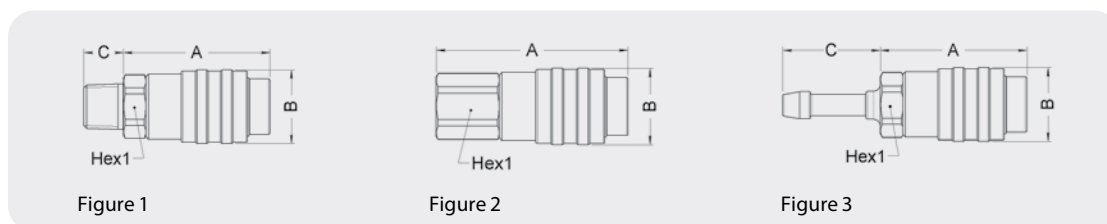
Applications & Market

- Compressed Air
- Pneumatic Tools

Flow Data



T1100 Series ISO 6150 B Interchange

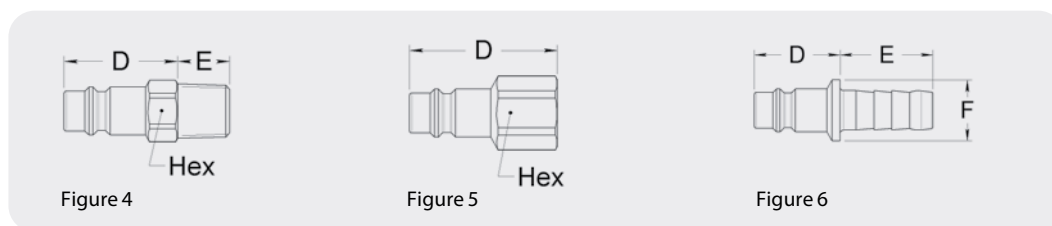


Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions								Weight	
						A	B	C	Hex1		lbs	grams			
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
TL0112038		3/8	3/8-19	Male BSPT	1	71	2.80	33.6	1.32	15	0.59	27	1.06	0.58	265
TL0112012		1/2	1/2-14	Male BSPT	1	71	2.80	33.6	1.32	17.0	0.67	27	1.06	0.60	270
TL0112034		3/4	3/4-14	Male BSPT	1	71	2.80	33.6	1.32	18.5	0.73	29	1.14	0.63	288
TL0112138	1/2	3/8	3/8-19	Female BSPP	2	83.5	3.29	33.6	1.32	-	-	27	1.06	0.63	286
TL0112112		1/2	1/2-14	Female BSPP	2	83.5	3.29	33.6	1.32	-	-	27	1.06	0.59	266
TL0112134		3/4	3/4-14	Female BSPP	2	89.5	3.52	33.6	1.32	-	-	32	1.26	0.69	312
TL0115601		-	10 mm	Hose Tail	3	72.5	2.85	33.6	1.32	28	1.10	27	1.06	0.58	264
TL0115613		-	13 mm	Hose Tail	3	72.5	2.85	33.6	1.32	33	1.30	27	1.06	0.60	274
TL0115616		-	16 mm	Hose Tail	3	72.5	2.85	33.6	1.32	33	1.30	27	1.06	0.62	279

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 34 mm (1,34 in.)

*Alternative end connections available upon request.



Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions								Weight	
						D	E		F		Hex1		lbs	grams	
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)		
TA0111538		3/8	3/8-19	Male BSPT	4	43.5	1.71	14.5	0.57	-	-	17	0.67	0.11	51
TA0111512		1/2	1/2-14	Male BSPT	4	46	1.81	17	0.67	-	-	22	0.87	0.15	70
TA0111638		3/8	3/8-19	Female BSPP	5	53	2.09	-	-	-	-	21	0.83	0.12	55
TA0111612	1/2	1/2	1/2-14	Female BSPP	5	58	2.28	-	-	-	-	27	1.06	0.19	88
TA0111813		-	13 mm	Hose Tail	6	39	1.54	26	1.02	19	0.75	-	-	0.09	43
TA0111816		-	16 mm	Hose Tail	6	39	1.54	26	1.02	22	0.87	-	-	0.10	47
TA0111819		-	19 mm	Hose Tail	6	39	1.54	26	1.02	25	0.98	-	-	0.11	51

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 34 mm (1,34 in.)

*Alternative end connections available upon request.

T1300 Series Proprietary Profile

Pneumatic application



Danfoss Hansen T1300 Series is a proprietary profile single shut-off compressed air coupling. This coupling offers excellent flow capacity and is used in high flow compressed air applications.

Product Features

- Automatic sleeve for one-hand pushto-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel-plated brass
- Standard body material (Plug): Zinc trivalent plated steel
- Standard seal material: NBR

Physical characteristics

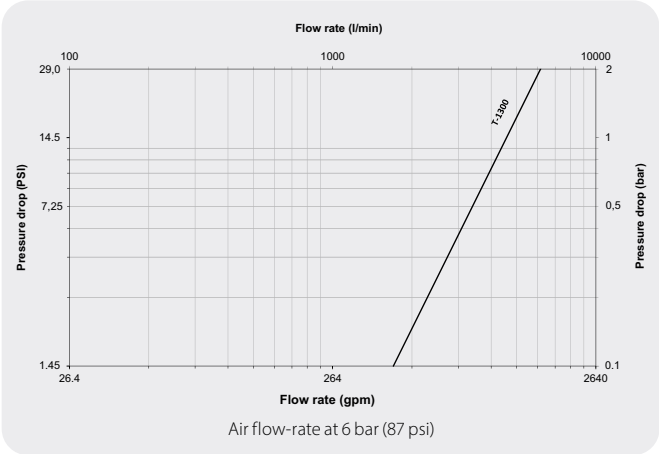
Body Size	Nominal Flow Diameter	Max. Operating Pressure Connected or Disconnected		Air Flow Rate* Δp 0.6 bar/8.7 psi**		Δp 1 bar/14.5 psi***		Working Temperature	
(in)	(mm)	(bar)	(psi)	(lpm)	(gpm)	(lpm)	(gpm)	°C	°F
1/2	12	20	290	3,800	1,000	4,600	1,210	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling..

Applications & Market

- Compressed Air
- Pneumatic Tools

Flow Data



T1300 Series Proprietary Profile

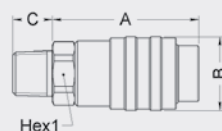


Figure 1

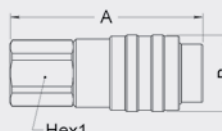


Figure 2

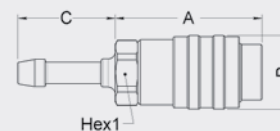


Figure 3

Sockets (Female)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions				Weight					
						A	B	C	Hex1						
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
TL0132038		3/8	3/8 -19	Male BSPT	1	69.7	2.74	33.6	1.32	15	0.59	27	1.06	0.54	247
TL0132012		1/2	1/2 -14	Male BSPT	1	69.7	2.74	33.6	1.32	17.0	0.67	27	1.06	0.56	255
TL0132034		3/4	3/4 -14	Male BSPT	1	69.7	2.74	33.6	1.32	18.5	0.73	29	1.14	0.62	279
TL0132138		3/8	3/8 -19	Female BSPP	2	82.2	3.24	33.6	1.32	-	-	27	1.06	0.60	272
TL0132112	1/2	1/2	1/2 -14	Female BSPP	2	82.2	3.24	33.6	1.32	-	-	27	1.06	0.60	270
TL0132134		3/4	3/4 -14	Female BSPP	2	88.2	3.47	33.6	1.32	-	-	32	1.26	0.65	295
TL0135601		-	10 mm	Hose Tail	3	71.2	2.80	33.6	1.32	28	1.10	27	1.06	0.55	249
TL0135613		-	13 mm	Hose Tail	3	71.2	2.80	33.6	1.32	33	1.30	27	1.06	0.57	259
TL0135616		-	16 mm	Hose Tail	3	71.2	2.80	33.6	1.32	33	1.30	27	1.06	0.58	264

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 32,5 mm (1,28 in.).

*Alternative end connections available upon request.

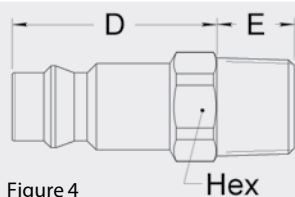


Figure 4

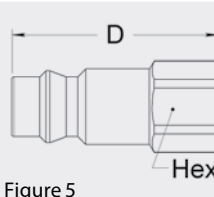


Figure 5

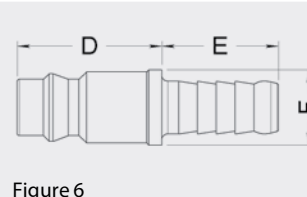


Figure 6

Plugs (Male)

Part/Order Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions				Weight					
						D	E	F	Hex1						
						(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	lbs	grams
TA0131538		3/8	3/8 -19	Male BSPT	4	44.5	1.75	15	0.59	-	-	21	0.83	0.14	65
TA0131512		1/2	1/2 -14	Male BSPT	4	46.5	1.83	17	0.67	-	-	22	0.87	0.19	85
TA0131638		3/8	3/8 -19	Female BSPP	5	55	2.17	-	-	-	-	21	0.83	0.14	65
TA0131612	1/2	1/2	1/2 -14	Female BSPP	5	63	2.48	-	-	-	-	26	1.02	0.21	95
TA0131813		-	13 mm	Hose Tail	6	38.5	1.52	31	1.22	20	0.79	-	-	0.13	57
TA0131816		-	16 mm	Hose Tail	6	38.5	1.52	37	1.46	20	0.79	-	-	0.15	70
TA0131819		-	19 mm	Hose Tail	6	38.5	1.52	42	1.65	27	1.06	-	-	0.19	87

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 32,5 mm (1,28 in.).

*Alternative end connections available upon request.

3000/4000/5000/6000 Series

Pneumatic application



Danfoss Hansen 3000/4000/5000/6000 Series Industrial Interchange pin lock pneumatic quick disconnect couplings are designed for compressed air, gases, and liquids. This series sets the industry standard for pin lock style pneumatic couplings.

Global region

Product Features

- Easy, automatic, push-to-connect design provides instantaneous connection and disconnection of lines, plus automatic shut-off of socket/female end of line
- All sizes accept US industrial Interchange; 1/4" & 1/2" also accept ISO 6150 Series B and A-A-59439 plugs/males
- Optional sleeve lock option prevents accidental disconnection
- Standard body material: Brass
- Standard seal material: Buna-N
- Optional seal and valve materials: Silicone-138, FKM-143, EPDM-192

Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
3000	1/4	138	2,000	552	8,000	680	24
4000	3/8	69	1,000	276	4,000	1,274	45
5000	1/2	35	500	140	2,000	2,040	72
6000	3/4	15	220	60	880	3,540	125

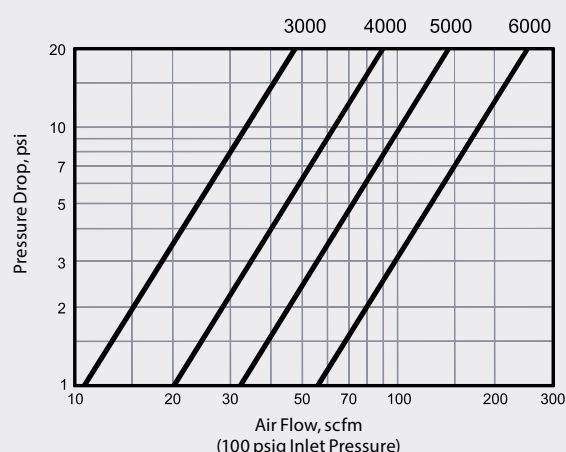
Applications & Markets

- Industrial Breathing Air
- General Pneumatics
- Maintenance & Repair
- Fluid Transfer

Interchangeability

All Sizes	1/4" & 1/2"
US Industrial Interchange	ISO 6150 Series B A-A-59439 (former MIL-C-4109)

Flow Data



3000 Series

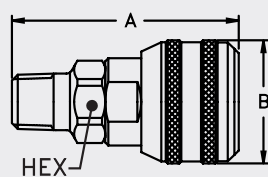


Figure 1

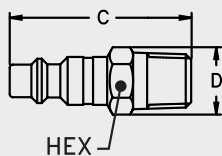


Figure 2

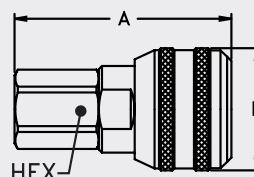


Figure 3

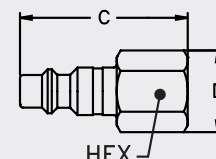


Figure 4

Male NPTF Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
2900	Socket/Female	¼	⅜	⅜-27	NPTF	Brass	1	50.80	2.00	30.23	1.19	17.53	0.69
3100E	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	55.63	2.19	30.23	1.19	17.53	0.69
3300E	Socket/Female	¼	⅜	¼-18	NPTF	Brass	1	54.61	2.15	30.23	1.19	17.53	0.69
300043*	Socket/Female	¼	⅞	⅞-20	UNF	Brass	1	53.34	2.10	30.23	1.19	17.53	0.69

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
10	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	15.85	0.62	14.22	0.56
10C§	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	16.51	0.65	14.22	0.56
10G†	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	16.51	0.65	14.22	0.56
12E	Plug/Male	¼	⅜	⅜-27	NPTF	Steel	2	40.39	1.59	14.73	0.58	12.70	0.50
12G†	Plug/Male	¼	⅜	⅜-27	NPTF	Steel	2	60.45	2.38	19.56	0.77	17.53	0.69
14	Plug/Male	¼	⅜	⅜-18	NPTF	Steel	2	44.45	1.75	20.07	0.79	17.53	0.69
14G†	Plug/Male	¼	⅜	⅜-18	NPTF	Steel	2	64.26	2.53	19.56	0.77	17.53	0.69
B10	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	44.45	1.75	15.75	0.62	14.22	0.56
LL10	Plug/Male	¼	¼	¼-18	NPTF	Stainless	2	44.45	1.75	15.85	0.62	14.22	0.56
10NK**	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	15.75	0.62	14.22	0.56

*45° Male Flare § With Ball Check †With Bleeder Ball Check—Reduces Hose Whip **Nickel plated

Female NPTF Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
2800	Socket/Female	¼	⅜	⅜-27	NPTF	Brass	3	48.01	1.89	30.23	1.19	17.53	0.69
3000	Socket/Female	¼	¼	¼-18	NPTF	Brass	3	53.59	2.11	30.23	1.19	17.53	0.69
3200	Socket/Female	¼	⅜	⅜-18	NPTF	Brass	3	55.63	2.19	30.23	1.19	19.05	0.75

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
11	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69
11G†	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	61.98	2.44	19.56	0.77	17.53	0.69
13	Plug/Male	¼	⅜	⅜-27	NPTF	Steel	4	37.34	1.47	16.51	0.65	14.22	0.56
15E	Plug/Male	¼	⅜	⅜-18	NPTF	Steel	4	42.93	1.69	23.88	0.94	20.57	0.81
11B	Plug/Male	¼	¼	¼-18	NPTF	Brass	4	41.40	1.63	20.07	0.79	17.53	0.69
LL11	Plug/Male	¼	¼	¼-18	NPTF	Stainless	4	41.40	1.63	20.07	0.79	17.53	0.69
11NK*	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

3000 Series

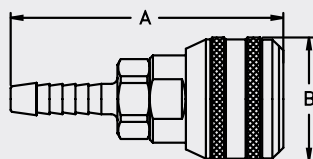


Figure 5

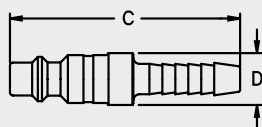
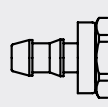
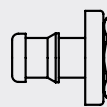


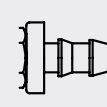
Figure 6



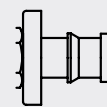
3600P



3700P



16P



17P

Figure 6A

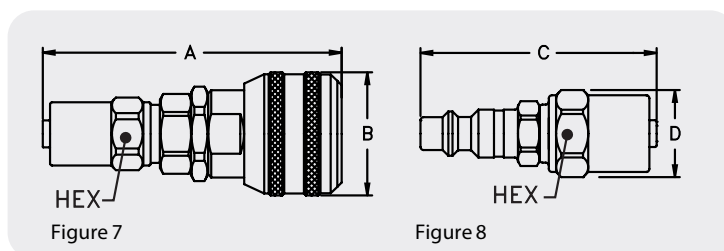
Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A		B	
						(mm)	(in)	(mm)	(in)
3600	Socket/Female	¼	¼	Brass	5	66.80	2.63	30.23	1.19
3600P‡	Socket/Female	¼	¼	Brass	5, 5A	60.96	2.40	30.23	1.19
3700E	Socket/Female	¼	¾	Brass	5	66.80	2.63	30.23	1.19
3700P‡	Socket/Female	¼	¾	Brass	5, 5A	62.74	2.47	30.23	1.19
3800	Socket/Female	¼	¾	Brass	5	66.80	2.63	30.23	1.19

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C		D	
						(mm)	(in)	(mm)	(in)
16	Plug/Male	¼	¼	Steel	6	56.39	2.22	12.70	0.50
16G†	Plug/Male	¼	¼	Steel	6	75.44	2.97	19.56	0.77
16P‡	Plug/Male	¼	¼	Steel	6, 6A	50.80	2.00	14.73	0.58
17	Plug/Male	¼	¾	Steel	6	56.39	2.22	12.70	0.50
17G†	Plug/Male	¼	¾	Steel	6	75.18	2.96	19.56	0.77
17P‡	Plug/Male	¼	¾	Steel	6, 6A	52.32	2.06	12.70	0.5
18E	Plug/Male	¼	¾	Steel	6	56.39	2.22	12.70	0.50
B17	Plug/Male	¼	¾	Brass	6	56.39	2.22	12.70	0.50
16NK*	Plug/Male	¼	¼	Steel	6	56.39	2.22	12.70	0.5
17NK*	Plug/Male	¼	¾	Steel	6	56.39	2.22	12.70	0.5

†With Bleeder Ball Checkv—Reduces Hose Whip ‡ For use with push-on style hose *Nickel plated

3000 Series



Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3SA0	Socket/Female	¼	⅜	7⁄₁₆	Brass	7	67.31	2.65	30.23	1.19	14.22	0.56
3SB1	Socket/Female	¼	¼	1⁵⁄₃₂	Brass	7	69.09	2.72	30.23	1.19	16.00	0.63
3SB3	Socket/Female	¼	¼	½	Brass	7	69.09	2.72	30.23	1.19	16.00	0.63
3SB5	Socket/Female	¼	¼	9⁄₁₆	Brass	7	69.09	2.72	30.23	1.19	17.53	0.69
3SB7	Socket/Female	¼	¼	⅝	Brass	7	69.09	2.72	30.23	1.19	19.05	0.75
3SB9	Socket/Female	¼	¼	11⁄₁₆	Brass	7	69.09	2.72	30.23	1.19	20.57	0.81
3SC5	Socket/Female	¼	⅝	9⁄₁₆	Brass	7	70.61	2.78	30.23	1.19	17.53	0.69
3SC7	Socket/Female	¼	⅝	⅝	Brass	7	70.61	2.78	30.23	1.19	19.05	0.75
3SC9	Socket/Female	¼	⅝	11⁄₁₆	Brass	7	70.61	2.78	30.23	1.19	20.57	0.81
3SD5	Socket/Female	¼	⅝	9⁄₁₆	Brass	7	72.14	2.84	30.23	1.19	17.53	0.69
3SD7	Socket/Female	¼	⅝	⅝	Brass	7	72.14	2.84	30.23	1.19	19.05	0.75
3SD9	Socket/Female	¼	⅝	11⁄₁₆	Brass	7	72.14	2.84	30.23	1.19	20.57	0.81
3SD11	Socket/Female	¼	⅝	¾	Brass	7	72.14	2.84	30.23	1.19	22.35	0.88

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3PB1	Plug/Male	¼	¼	15⁄32	Steel	8	58.67	2.31	17.78	0.70	16.00	0.63
3PB3	Plug/Male	¼	¼	½	Steel	8	58.67	2.31	17.78	0.70	16.00	0.63
3PB5	Plug/Male	¼	¼	9⁄16	Steel	8	58.67	2.31	19.56	0.77	17.53	0.69
3PB7	Plug/Male	¼	¼	5⁄8	Steel	8	58.67	2.31	21.34	0.84	19.05	0.75
3PB9	Plug/Male	¼	¼	11⁄16	Steel	8	58.67	2.31	23.11	0.91	20.57	0.81
3PB11	Plug/Male	¼	¼	¾	Steel	8	58.67	2.31	24.89	0.98	22.35	0.88
3PC5	Plug/Male	¼	5⁄16	9⁄16	Steel	8	60.45	2.38	19.56	0.77	17.53	0.69
3PC7	Plug/Male	¼	5⁄16	5⁄8	Steel	8	60.45	2.38	21.34	0.84	19.05	0.75
3PC9	Plug/Male	¼	5⁄16	11⁄16	Steel	8	60.45	2.38	23.11	0.91	20.57	0.81
3PD5	Plug/Male	¼	3⁄8	9⁄16	Steel	8	61.98	2.44	19.56	0.77	17.53	0.69
3PD7	Plug/Male	¼	3⁄8	5⁄8	Steel	8	61.98	2.44	21.34	0.84	19.05	0.75
3PD9	Plug/Male	¼	3⁄8	11⁄16	Steel	8	61.98	2.44	23.11	0.91	20.57	0.81
3PD11	Plug/Male	¼	3⁄8	¾	Steel	8	61.98	2.44	24.89	0.98	22.35	0.88

4000 Series

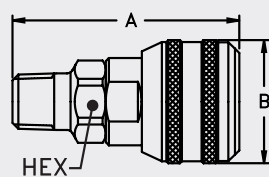


Figure 1

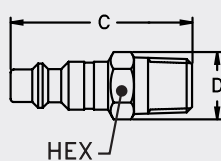


Figure 2

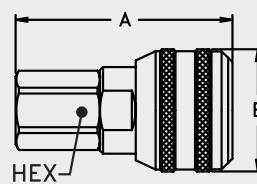


Figure 3

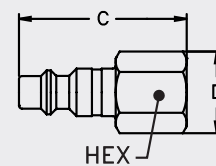


Figure 4

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
4100A	Socket/Female	3/8	1/8	1/8-27	NPTF	Brass	1	55.88	2.20	35.05	1.38	22.35	0.88
4100	Socket/Female	3/8	1/4	1/4-18	NPTF	Brass	1	59.69	2.35	35.05	1.38	22.35	0.88
4300	Socket/Female	3/8	3/8	3/8-18	NPTF	Brass	1	59.69	2.35	35.05	1.38	22.35	0.88
4500E	Socket/Female	3/8	1/2	1/2-14	NPTF	Brass	1	64.52	2.54	35.05	1.38	22.35	0.88

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
38	Plug/Male	3/8	1/8	1/8-27	NPTF	Steel	2	43.69	1.72	18.29	0.72	16.00	0.63
40	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2	47.75	1.88	18.29	0.72	16.00	0.63
40G†	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2	67.31	2.65	19.56	0.77	17.53	0.69
42	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	2	47.75	1.88	20.07	0.79	17.53	0.69
42G†	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	2	67.31	2.65	19.56	0.77	17.53	0.69
44	Plug/Male	3/8	1/2	1/2-14	NPTF	Steel	2	53.09	2.09	25.65	1.01	22.35	0.88
B40	Plug/Male	3/8	1/4	1/4-18	NPTF	Brass	2	47.75	1.88	17.78	0.70	16.00	0.63
B42	Plug/Male	3/8	3/8	3/8-18	NPTF	Brass	2	47.75	1.88	19.56	0.77	17.53	0.69
40NK*	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	2	47.75	1.88	18.29	0.72	16.00	0.63

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
4000A	Socket/Female	3/8	1/8	1/8-27	NPTF	Brass	3	53.34	2.10	35.05	1.38	22.35	0.88
4000	Socket/Female	3/8	1/4	1/4-18	NPTF	Brass	3	53.34	2.10	35.05	1.38	22.35	0.88
4200	Socket/Female	3/8	3/8	3/8-18	NPTF	Brass	3	59.69	2.35	35.05	1.38	22.35	0.88
4400	Socket/Female	3/8	1/2	1/2-14	NPTF	Brass	3	66.55	2.62	35.05	1.38	25.40	1

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
41	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69
41G†	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4	65.02	2.56	19.56	0.77	17.53	0.69
43	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	4	45.97	1.81	23.88	0.94	20.57	0.81
43G†	Plug/Male	3/8	3/8	3/8-18	NPTF	Steel	4	66.55	2.62	21.34	0.84	19.05	0.75
45E	Plug/Male	3/8	1/2	1/2-14	NPTF	Steel	4	52.32	2.06	29.21	1.15	25.40	1
B43	Plug/Male	3/8	3/8	3/8-18	NPTF	Brass	4	45.97	1.81	23.11	0.91	20.57	0.81
41NK*	Plug/Male	3/8	1/4	1/4-18	NPTF	Steel	4	41.40	1.63	20.07	0.79	17.53	0.69

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

4000 Series

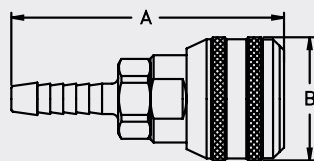


Figure 5

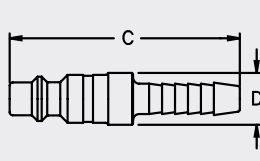


Figure 6

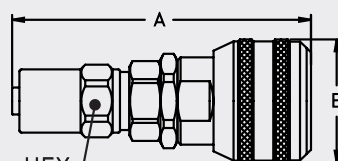


Figure 7

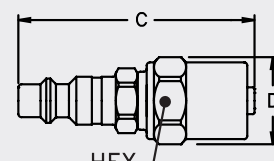


Figure 8

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A		B	
						(mm)	(in)	(mm)	(in)
40400E	Socket/Female	3/8	1/4	Brass	5	71.63	2.82	35.05	1.38
40500E	Socket/Female	3/8	5/16	Brass	5	71.63	2.82	35.05	1.38
40600	Socket/Female	3/8	3/8	Brass	5	71.63	2.82	35.05	1.38
40800	Socket/Female	3/8	1/2	Brass	5	71.63	2.82	35.05	1.38

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C		D	
						(mm)	(in)	(mm)	(in)
404	Plug/Male	3/8	1/4	Steel	6	59.44	2.34	18.29	0.72
406	Plug/Male	3/8	3/8	Steel	6	59.44	2.34	16.00	0.63
408	Plug/Male	3/8	1/2	Steel	6	59.44	2.34	20.57	0.81
B406E	Plug/Male	3/8	3/8	Brass	6	59.44	2.34	16.00	0.63

Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
4SB3	Socket/Female	3/8	1/4	1/2	Brass	7	74.17	2.92	35.05	1.38	16.00	0.63
4SB7	Socket/Female	3/8	1/4	5/8	Brass	7	74.17	2.92	35.05	1.38	19.05	0.75
4SC7	Socket/Female	3/8	5/16	5/8	Brass	7	75.69	2.98	35.05	1.38	19.05	0.75
4SD7	Socket/Female	3/8	3/8	5/8	Brass	7	77.22	3.04	35.05	1.38	19.05	0.75
4SD9	Socket/Female	3/8	3/8	1 1/16	Brass	7	77.22	3.04	35.05	1.38	20.57	0.81
4SD11	Socket/Female	3/8	3/8	3/4	Brass	7	77.22	3.04	35.05	1.38	22.35	0.88
4SP13	Socket/Female	3/8	1/2	1 3/16	Brass	7	93.22	3.67	35.05	1.38	23.88	0.94
4SP15	Socket/Female	3/8	1/2	7/8	Brass	7	93.22	3.67	35.05	1.38	25.40	1.00

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
4PB3	Plug/Male	3/8	1/4	1/2	Steel	8	61.98	2.44	17.78	0.70	16.00	0.63
4PB7	Plug/Male	3/8	1/4	5/8	Steel	8	61.98	2.44	21.34	0.84	19.05	0.75
4PD7	Plug/Male	3/8	3/8	5/8	Steel	8	65.02	2.56	21.34	0.84	19.05	0.75
4PD9	Plug/Male	3/8	3/8	1 1/16	Steel	8	65.02	2.56	23.11	0.91	20.57	0.81
4PD11	Plug/Male	3/8	3/8	3/4	Steel	8	65.02	2.56	24.89	0.98	22.35	0.88
4PD15	Plug/Male	3/8	3/8	7/8	Steel	8	65.02	2.56	28.45	1.12	25.40	1.00
4PP13	Plug/Male	3/8	1/2	1 3/16	Steel	8	82.55	3.25	26.67	1.05	23.88	0.94
4PP15	Plug/Male	3/8	1/2	7/8	Steel	8	82.55	3.25	28.45	1.12	25.40	1.00
4PP19	Plug/Male	3/8	1/2	1	Steel	8	82.55	3.25	32.00	1.26	28.70	1.13
4PB5	Plug/Male	3/8	1/4	5/8	Steel	8	61.98	2.44	19.56	0.77	17.53	0.69

5000 Series

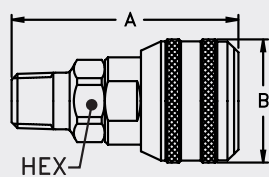


Figure 1

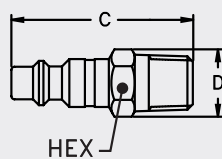


Figure 2

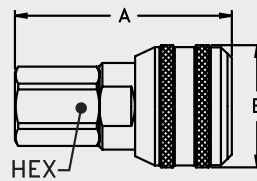


Figure 3

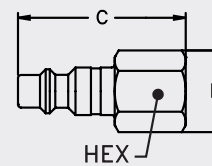


Figure 4

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
50100	Socket/Female	½	¼	¼-18	NPTF	Brass	1	70.61	2.78	38.10	1.50	25.40	1.00
5100E	Socket/Female	½	⅜	⅜-18	NPTF	Brass	1	70.87	2.79	38.10	1.50	25.40	1.00
5300E	Socket/Female	½	½	½-14	NPTF	Brass	1	75.69	2.98	38.10	1.50	25.40	1.00
5500	Socket/Female	½	¾	¾-14	NPTF	Brass	1	75.69	2.98	38.10	1.50	26.92	1.06

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
50E	Plug/Male	½	¼	¼-18	NPTF	Steel	2	57.15	2.25	20.07	0.79	17.53	0.69
50G†	Plug/Male	½	¼	¼-18	NPTF	Steel	2	73.66	2.90	24.89	0.98	22.35	0.88
52	Plug/Male	½	⅜	⅜-18	NPTF	Steel	2	57.15	2.25	22.10	0.87	19.05	0.75
52G†	Plug/Male	½	⅜	⅜-18	NPTF	Steel	2	73.66	2.90	24.89	0.98	22.35	0.88
54E	Plug/Male	½	½	½-14	NPTF	Steel	2	61.98	2.44	25.65	1.01	22.35	0.88
54G†	Plug/Male	½	½	½-14	NPTF	Steel	2	78.49	3.09	24.89	0.98	22.35	0.88
56	Plug/Male	½	¾	¾-14	NPTF	Steel	2	63.50	2.50	31.24	1.23	26.92	1.06
56G†	Plug/Male	½	¾	¾-14	NPTF	Steel	2	79.76	3.14	30.23	1.19	26.92	1.06
B52	Plug/Male	½	⅜	⅜-18	NPTF	Brass	2	57.15	2.25	22.10	0.87	19.05	0.75
B54	Plug/Male	½	½	½-14	NPTF	Brass	2	61.98	2.44	25.65	1.01	22.35	0.88

†With Bleeder Ball Check—Reduces Hose Whip

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
5000A	Socket/Female	½	¼	¼-18	NPTF	Brass	3	69.09	2.72	38.10	1.50	25.40	1.00
5000	Socket/Female	½	⅜	⅜-18	NPTF	Brass	3	70.87	2.79	38.10	1.50	25.40	1.00
5200	Socket/Female	½	½	½-14	NPTF	Brass	3	77.98	3.07	38.10	1.50	25.40	1.00
5400E	Socket/Female	½	¾	¾-14	NPTF	Brass	3	78.74	3.10	38.10	1.50	30.23	1.19

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
53A	Plug/Male	½	¼	¼-18	NPTF	Steel	4	48.77	1.92	20.07	0.79	17.53	0.69
53	Plug/Male	½	⅜	⅜-18	NPTF	Steel	4	52.32	2.06	23.88	0.94	20.57	0.81
53G†	Plug/Male	½	⅜	⅜-18	NPTF	Steel	4	73.66	2.9	24.89	0.98	22.35	0.88
55	Plug/Male	½	½	½-14	NPTF	Steel	4	59.44	2.34	29.21	1.15	25.40	1
55G†	Plug/Male	½	½	½-14	NPTF	Steel	4	80.52	3.17	29.21	1.15	25.40	1.00
57	Plug/Male	½	¾	¾-14	NPTF	Steel	4	61.98	2.44	34.80	1.37	30.23	1.19

†With Bleeder Ball Check—Reduces Hose Whip

5000 Series

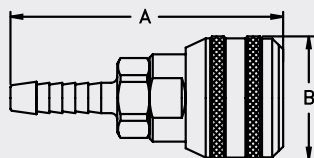


Figure 5

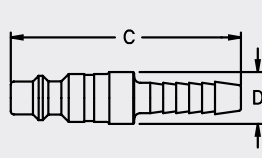


Figure 6

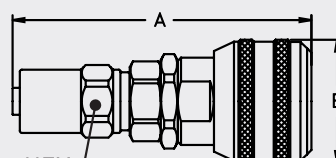


Figure 7

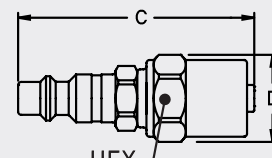


Figure 8

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A		B	
						(mm)	(in)	(mm)	(in)
50400	Socket/Female	½	¼	Brass	5	83.57	3.29	38.10	1.50
5700E	Socket/Female	½	⅜	Brass	5	84.58	3.33	38.10	1.50
5800E	Socket/Female	½	½	Brass	5	82.55	3.25	38.10	1.50
5900	Socket/Female	½	¾	Brass	5	104.14	4.10	38.10	1.50

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C		D	
						(mm)	(in)	(mm)	(in)
585	Plug/Male	½	⅜	Steel	6	67.56	2.66	17.53	0.69
585G†	Plug/Male	½	⅜	Brass	6	85.60	3.37	24.89	0.98
59	Plug/Male	½	⅜	Steel	6	67.56	2.66	17.53	0.69
59G†	Plug/Male	½	⅜	Brass	6	85.60	3.37	24.89	0.98
60	Plug/Male	½	½	Steel	6	67.56	2.66	19.05	0.75
60G†	Plug/Male	½	½	Brass	6	85.60	3.37	24.89	0.98
61E	Plug/Male	½	¾	Steel	6	88.90	3.50	25.40	1.00
61G†	Plug/Male	½	¾	Brass	6	107.19	4.22	24.89	0.98
B60	Plug/Male	½	½	Brass	6	69.85	2.75	22.35	0.88

†With Bleeder Ball Check—Reduces Hose Whip

Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
5SD5	Socket/Female	½	⅜	⅝	Brass	7	88.90	3.50	38.10	1.50	17.53	0.69
5SD7	Socket/Female	½	⅜	⅝	Brass	7	88.90	3.50	38.10	1.50	19.05	0.75
5SD9	Socket/Female	½	⅜	⅞	Brass	7	88.90	3.50	38.10	1.50	20.57	0.81
5SD11	Socket/Female	½	⅜	¾	Brass	7	88.90	3.50	38.10	1.50	22.35	0.88
5SP13	Socket/Female	½	½	⅞	Brass	7	104.14	4.10	38.10	1.50	23.88	0.94
5SP15	Socket/Female	½	½	⅞	Brass	7	104.14	4.10	38.10	1.50	25.40	1.00
5SR23	Socket/Female	½	¾	1 ⅜	Brass	7	107.44	4.23	38.10	1.50	31.75	1.25
5SR25	Socket/Female	½	¾	1 ⅝	Brass	7	107.44	4.23	38.10	1.50	33.27	1.31
5SR27	Socket/Female	½	¾	1 ¾	Brass	7	107.44	4.23	39.12	1.54	35.05	1.38

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
5PB3	Plug/Male	½	¼	½	Steel	8	71.37	2.81	17.78	0.70	16.00	0.63
5PB5	Plug/Male	½	¼	⅝	Steel	8	71.37	2.81	19.56	0.77	17.53	0.69
5PB7	Plug/Male	½	¼	⅝	Steel	8	71.37	2.81	21.34	0.84	19.05	0.75
5PD5	Plug/Male	½	⅜	⅝	Steel	8	74.68	2.94	19.56	0.77	17.53	0.69
5PD7	Plug/Male	½	⅜	⅝	Steel	8	74.68	2.94	21.34	0.84	19.05	0.75
5PD9	Plug/Male	½	⅜	⅞	Steel	8	74.68	2.94	23.11	0.91	20.57	0.81
5PD11	Plug/Male	½	⅜	¾	Steel	8	74.68	2.94	24.89	0.98	22.35	0.88
5PD13	Plug/Male	½	⅜	⅞	Steel	8	74.68	2.94	26.67	1.05	23.88	0.94
5PP13	Plug/Male	½	½	⅞	Steel	8	91.95	3.62	26.67	1.05	23.88	0.94
5PP15	Plug/Male	½	½	⅞	Steel	8	91.95	3.62	28.45	1.12	25.40	1.00
5PR23	Plug/Male	½	¾	1 ⅜	Steel	8	95.25	3.75	35.56	1.40	31.75	1.25
5PR25	Plug/Male	½	¾	1 ⅝	Steel	8	95.25	3.75	37.34	1.47	33.27	1.31
5PR27	Plug/Male	½	¾	1 ¾	Steel	8	95.25	3.75	39.12	1.54	35.05	1.38

6000 Series

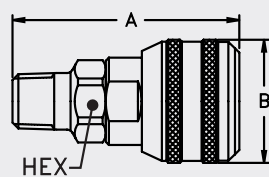


Figure 1

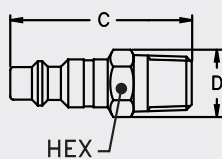


Figure 2

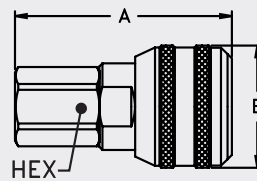


Figure 3

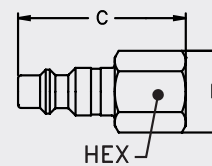


Figure 4

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
6300	Socket/Female	3/4	1/2	1/2-14	NPTF	Brass	1	74.68	2.94	48.26	1.90	33.27	1.31
6500	Socket/Female	3/4	3/4	3/4-14	NPTF	Brass	1	74.68	2.94	48.26	1.90	33.27	1.31
6700E	Socket/Female	3/4	1	1-11 1/2	NPTF	Brass	1	79.50	3.13	48.26	1.90	33.27	1.31

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
64A	Plug/Male	3/4	1/2	1/2-14	NPTF	Steel	2	58.67	2.31	29.21	1.15	25.40	1.00
64GA†	Plug/Male	3/4	1/2	1/2-14	NPTF	Steel	2	82.80	3.26	28.45	1.12	25.40	1.00
66AE	Plug/Male	3/4	3/4	3/4-14	NPTF	Steel	2	60.45	2.38	31.24	1.23	26.92	1.06
66GA†	Plug/Male	3/4	3/4	3/4-14	NPTF	Steel	2	82.80	3.26	30.23	1.19	26.92	1.06
68A	Plug/Male	3/4	1	1-11 1/2	NPTF	Steel	2	65.02	2.56	38.35	1.51	33.27	1.31
B64A	Plug/Male	3/4	1/2	1/2-14	NPTF	Brass	2	58.67	2.31	28.45	1.12	25.40	1.00
B66A	Plug/Male	3/4	3/4	3/4-14	NPTF	Brass	2	60.45	2.38	30.07	1.18	26.92	1.06

†With Bleeder Ball Check—Reduces Hose Whip

Female End Connections

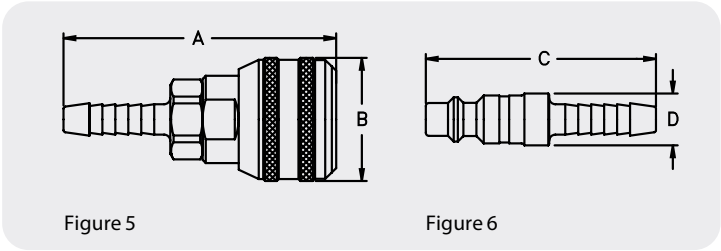
Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
6200E	Socket/Female	3/4	1/2	1/2-14	NPTF	Brass	3	72.39	2.85	48.26	1.90	33.27	1.31
6400E	Socket/Female	3/4	3/4	3/4-14	NPTF	Brass	3	76.20	3.00	48.26	1.90	33.27	1.31
6600E	Socket/Female	3/4	1	1-11 1/2	NPTF	Brass	3	81.03	3.19	48.26	1.90	39.62	1.56

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
65A	Plug/Male	3/4	1/2	1/2-14	NPTF	Steel	4	56.39	2.22	29.21	1.15	25.40	1.00
65GAS†	Plug/Male	3/4	1/2	1/2-14	NPTF	Steel	4	85.09	3.35	28.45	1.12	25.40	1.00
67A	Plug/Male	3/4	3/4	3/4-14	NPTF	Steel	4	56.39	2.22	33.78	1.33	30.23	1.19
67GAS†	Plug/Male	3/4	3/4	3/4-14	NPTF	Steel	4	85.85	3.38	33.78	1.33	30.23	1.19
69A	Plug/Male	3/4	1	1-11 1/2	NPTF	Steel	4	61.21	2.41	45.72	1.80	39.62	1.56

†With Bleeder Ball Check—Reduces Hose Whip

6000 Series

Global region



Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A		B	
						(mm)	(in)	(mm)	(in)
6800E	Socket/Female	¾	½	Brass	5	81.53	3.21	47.75	1.88
6900	Socket/Female	¾	¾	Brass	5	103.12	4.06	47.75	1.88
7000E	Socket/Female	¾	1	Brass	5	103.38	4.07	47.75	1.88

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C		D	
						(mm)	(in)	(mm)	(in)
70A	Plug/Male	¾	½	Steel	6	64.26	2.53	23.88	0.94
70GA†	Plug/Male	¾	½	Steel	6	89.66	3.53	28.45	1.12
71A	Plug/Male	¾	¾	Steel	6	87.38	3.44	26.92	1.06
71GA†	Plug/Male	¾	¾	Steel	6	111.25	4.38	28.45	1.12
72A	Plug/Male	¾	1	Steel	6	87.38	3.44	33.27	1.31
B71A	Plug/Male	¾	¾	Steel	6	87.38	3.44	26.92	1.06

†With Bleeder Ball Check—Reduces Hose Whip

Dust Caps and Dust Plugs

Series	Dust Cap		Dust Plug	
	Metal	Vinyl	Metal	Vinyl
3000	XPDC3000*	-	SDC3000*	XPSDC1HK
4000	-	-	-	XPSDC2HK
5000	-	XPPDC2HK	-	-
6000	-	XPPDC3HK	-	-

*Brass



Auto-Flo 23/24 Series

Pneumatic application



Danfoss' Auto-Flo 23/24 Series of pneumatic couplings were designed with high flow and easy automatic connection for compressed air in mind. The universal design makes the Auto-Flo an extremely flexible coupling series.

Global region

Product Features

- Auto-Flo 23 is the first automatic universal quick disconnect coupling designed to operate with Industrial, ARO 210 and Tru-Flate Interchange plugs/males
- Auto-Flo 24 operates with CEJN 320 and Rectus 25 Interchange plugs/males
- Easy, automatic, push-to-connect design provides instantaneous connection and disconnection of lines, plus automatic shut-off of socket/female end of line
- Sleeve guard protects against accidental disconnection
- Standard body material: Brass
- Standard seal material: Buna-N

Physical characteristics

Series	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
Auto-Flo 23	10	150	40	600	792	28
Auto-Flo 24	10	150	40	600	1,274	45

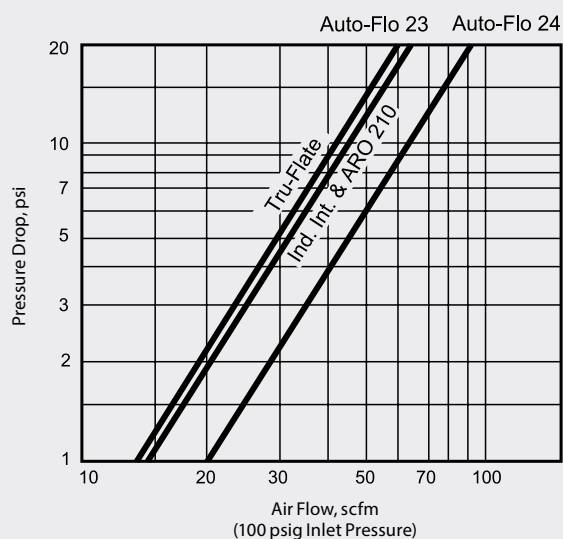
Applications & Markets

- General Pneumatics
- Air Tools
- Construction

Interchangeability

Auto-Flo 23	Auto-Flo 24
US Industrial Interchange ISO 6150 Series B	(Euro Interchange)
A-A-59439 (former MIL-C-4109)	CEJN 320
Tru-Flate Interchange ARO 210 Interchange	RECTUS 25

Flow Data



Auto-Flo 23 Series

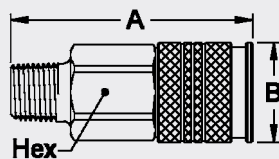


Figure 1

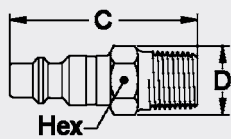


Figure 2

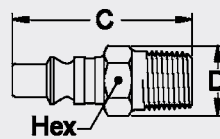


Figure 3 (ARO 210)

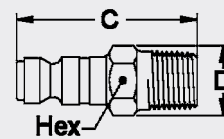


Figure 4 (Tru-Flate)

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
B23AS25M	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	56.64	2.23	24.38	0.96	20.57	0.81
B23AS25MBST	Socket/Female	¼	¼	¼-19	BSPT	Brass	1	56.64	2.23	24.38	0.96	20.57	0.81
B23AS37M	Socket/Female	¼	¾	¾-18	NPTF	Brass	1	56.64	2.23	24.38	0.96	20.57	0.81
B23AS37MBST	Socket/Female	¼	¾	¾-19	BSPT	Brass	1	56.64	2.23	24.38	0.96	20.57	0.81
B23AS50MBST	Socket/Female	¼	½	½-14	BSPT	Brass	1	56.64	2.23	24.38	0.96	22.35	0.88

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
10	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	15.75	0.62	14.22	0.56
10CS	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	16.51	0.65	14.22	0.56
10G†	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	16.51	0.65	14.22	0.56
12E	Plug/Male	¼	⅝	⅝-27	NPTF	Steel	2	40.39	1.59	14.73	0.58	12.70	0.5
12G†	Plug/Male	¼	⅝	⅝-27	NPTF	Steel	2	60.45	2.38	19.56	0.77	17.53	0.69
14	Plug/Male	¼	¾	¾-18	NPTF	Steel	2	44.45	1.75	20.07	0.79	17.53	0.69
14G†	Plug/Male	¼	¾	¾-18	NPTF	Steel	2	64.26	2.53	19.56	0.77	17.53	0.69
B10	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	44.45	1.75	15.75	0.62	14.22	0.56
LL10	Plug/Male	¼	¼	¼-18	NPTF	Stainless	2	44.45	1.75	15.75	0.62	14.22	0.56
2607	Plug/Male	¼	⅝	⅝-27	NPTF	Steel	3	36.07	1.42	14.73	0.58	12.70	0.5
2608	Plug/Male	¼	¼	¼-18	NPTF	Steel	3	42.67	1.68	16.51	0.65	14.22	0.56
2608B	Plug/Male	¼	¼	¼-19	BSPT	Steel	3	42.67	1.68	16.51	0.65	14.22	0.56
20AP37M	Plug/Male	¼	¾	¾-18	NPTF	Steel	3	42.67	1.68	20.07	0.79	17.53	0.69
21AP25M	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	41.91	1.65	16.51	0.65	14.22	0.56
10NK*	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	44.45	1.75	15.75	0.62	14.22	0.56

§With Ball Check †With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

Auto-Flo 23 Series

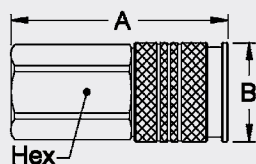


Figure 1

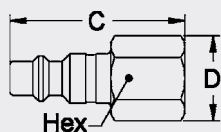


Figure 2

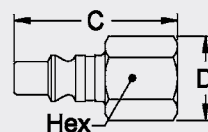


Figure 3 (ARO 210)

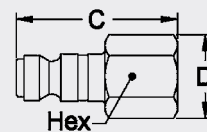


Figure 4 (Tru-Flate)

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A	B	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
B23AS25F	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	51.31	2.02	24.38	0.96	20.57	0.81
B23AS25FBS	Socket/Female	¼	¼	¼-19	BSPP	Brass	1	51.31	2.02	24.38	0.96	20.57	0.81
B23AS37F	Socket/Female	¼	¾	¾-18	NPTF	Brass	1	51.31	2.02	24.38	0.96	20.57	0.81
B23AS37FBS	Socket/Female	¼	¾	¾-19	BSPP	Brass	1	51.31	2.02	24.38	0.96	20.57	0.81

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C	D	Hex			
								(mm)	(in)	(mm)	(in)	(mm)	(in)
11	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	41.40	1.63	20.07	0.79	17.53	0.69
11G†	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	61.98	2.44	19.56	0.77	17.53	0.69
13	Plug/Male	¼	⅝	⅝-27	NPTF	Steel	2	37.34	1.47	16.51	0.65	14.22	0.56
15E	Plug/Male	¼	¾	¾-18	NPTF	Steel	2	42.93	1.69	23.88	0.94	20.57	0.81
11B	Plug/Male	¼	¼	¼-18	NPTF	Brass	2	41.40	1.63	20.07	0.79	17.53	0.69
LL11	Plug/Male	¼	¼	¼-18	NPTF	Stainless	2	41.40	1.63	20.07	0.79	17.53	0.69
2609	Plug/Male	¼	¼	¼-18	NPTF	Steel	3	39.37	1.55	20.07	0.79	17.53	0.69
2609B	Plug/Male	¼	¼	¼-19	BSPP	Steel	3	38.61	1.52	20.07	0.79	17.53	0.69
20AP37F	Plug/Male	¼	¾	¾-18	NPTF	Steel	3	40.89	1.61	23.88	0.94	20.57	0.81
21AP25F	Plug/Male	¼	¼	¼-18	NPTF	Steel	4	38.86	1.53	20.07	0.79	17.53	0.69
11NK*	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	41.40	1.63	20.07	0.79	17.53	0.69

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

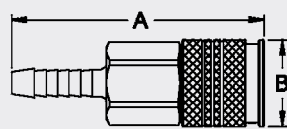


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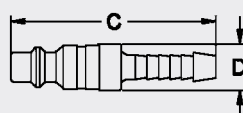


Figure 2

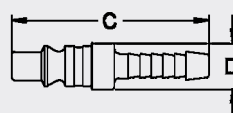


Figure 3 (ARO 210)

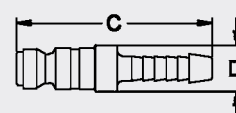


Figure 4 (Tru-Flate)

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						A	B		
						(mm)	(in)	(mm)	(in)
B23AS25H	Socket/Female	¼	¼	Brass	1	70.10	2.76	24.38	0.96
B23AS31H	Socket/Female	¼	⅝	Brass	1	69.34	2.73	24.38	0.96
B23AS37H	Socket/Female	¼	¾	Brass	1	69.34	2.73	24.38	0.96
B23AS50H	Socket/Female	¼	½	Brass	1	68.58	2.7	24.38	0.96

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
						C	D		
						(mm)	(in)	(mm)	(in)
16	Plug/Male	¼	¼	Steel	2	56.39	2.22	12.70	0.5
16G†	Plug/Male	¼	¼	Steel	2	75.44	2.97	19.56	0.77
16P†	Plug/Male	¼	¼	Steel	2	50.80	2.00	14.73	0.58
17	Plug/Male	¼	¾	Steel	2	56.39	2.22	12.70	0.5
17G†	Plug/Male	¼	¾	Steel	2	75.18	2.96	19.56	0.77
17P†	Plug/Male	¼	¾	Steel	2	52.32	2.06	12.70	0.5
18E	Plug/Male	¼	⅝	Steel	2	56.39	2.22	12.70	0.5
B17	Plug/Male	¼	¾	Brass	2	56.39	2.22	12.70	0.5
3946	Plug/Male	¼	¼	Steel	3	54.36	2.14	12.70	0.5
3947	Plug/Male	¼	⅝	Steel	3	54.36	2.14	12.70	0.5
22238E	Plug/Male	¼	¾	Steel	3	54.36	2.14	12.70	0.5
21AP25H	Plug/Male	¼	¼	Steel	4	53.85	2.12	12.70	0.5
16NK*	Plug/Male	¼	¼	Steel	2	56.39	2.22	12.70	0.5
17NK*	Plug/Male	¼	¾	Steel	2	56.39	2.22	12.70	0.5

†With Bleeder Ball Check—Reduces Hose Whip

Auto-Flo 24 Series

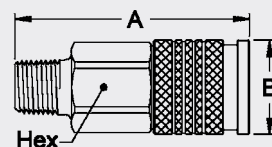


Figure 1

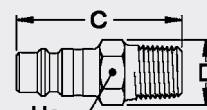


Figure 2

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
B24AS25M	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	57.66	2.27	24.38	0.96	20.57	0.81

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
24AP25MBST	Plug/Male	¼	¼	¼-19	BSPT	Steel	2	41.15	1.62	16.51	0.65	14.22	0.56
24AP50MBST	Plug/Male	¼	½	½-14	BSPT	Steel	2	47.75	1.88	25.65	1.01	22.35	0.88

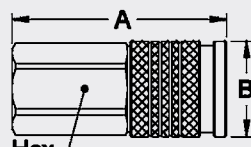


Figure 1

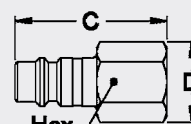


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								A		B		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
B24AS25F	Socket/Female	¼	¼	¼-18	NPTF	Brass	1	52.32	2.06	24.38	0.96	20.57	0.81
B24AS25FBS	Socket/Female	¼	¼	¼-19	BSPP	Brass	1	52.32	2.06	24.38	0.96	20.57	0.81
B24AS37FBS	Socket/Female	¼	¾	¾-19	BSPP	Brass	1	52.32	2.06	24.38	0.96	20.57	0.81
B24AS50FBS	Socket/Female	¼	½	½-14	BSPP	Brass	1	60.45	2.38	24.38	0.96	26.92	1.06

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
								C		D		Hex	
								(mm)	(in)	(mm)	(in)	(mm)	(in)
24AP25FG	Plug/Male	¼	¼	¼-18	NPTF	Steel	2	37.85	1.49	20.07	0.79	17.53	0.69
24AP25FBS	Plug/Male	¼	¼	¼-19	BSPP	Steel	2	37.08	1.46	20.07	0.79	17.53	0.69

210/310 Series

Pneumatic application



Danfoss’ 210/310 series pneumatic couplings have a pin-type one-way shut off operation.

AMER region

Product Features

- Automatic push-to-connect
- Pin-lock design
- Alloy steel locking pins
- Standard body material: Zinc trivalent plated carbon steel
- Standard seal material: Buna-N

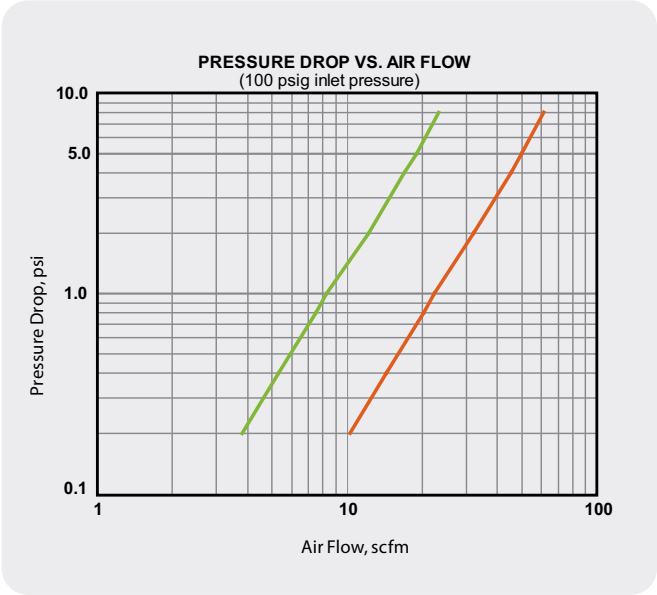
Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
210	¼	17	250	68	1,000	538	19
310	¾	17	250	68	1,000	1,415	50

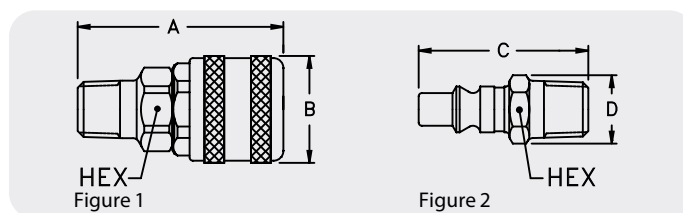
Applications & Markets

- Construction
- Maintenance and Repair
- In-plant/Industrial
- Pneumatic Tools

Flow Data



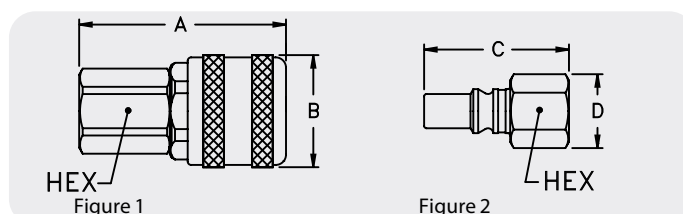
210 Series



Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
210212	Socket/Female	¼	¼	¼-18	NPTF	1	49.5	1.95	25.9	1.02	17.5	0.69
210213	Socket/Female	¼	⅜	⅜-18	NPTF	1	48.5	1.91	25.9	1.02	17.5	0.69

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
2607	Plug/Male	¼	⅜	⅜-27	NPTF	2	36.1	1.42	14.7	0.58	12.7	0.5
2608	Plug/Male	¼	¼	¼-18	NPTF	2	42.7	1.68	16.5	0.65	14.2	0.56
2608B	Plug/Male	¼	¼	¼-19	BSPT	2	42.7	1.68	16.5	0.65	14.2	0.56
20AP37M	Plug/Male	¼	⅜	⅜-18	NPTF	2	42.7	1.68	20.1	0.79	17.5	0.69

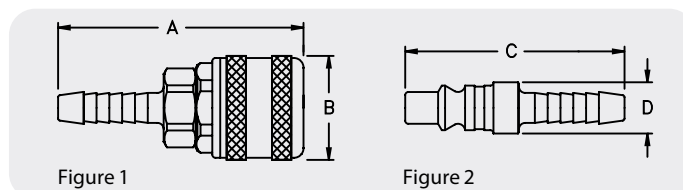


Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
210	Socket/Female	¼	¼	¼-18	NPTF	1	47.5	1.87	25.9	1.02	17.5	0.69
62210*	Socket/Female	¼	¼	¼-18	NPTF	1	47.5	1.87	25.9	1.02	17.5	0.69
210B	Socket/Female	¼	¼	¼-19	BSPP	1	41.7	1.64	25.9	1.02	19.1	0.75

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
2609	Plug/Male	¼	¼	¼-18	NPTF	2	39.4	1.55	20.1	0.79	17.5	0.69
2609B	Plug/Male	¼	¼	¼-19	BSPP	2	38.6	1.52	20.1	0.79	17.5	0.69
20AP37F	Plug/Male	¼	⅜	⅜-18	NPTF	2	40.9	1.61	23.9	0.94	20.6	0.81

*Same as Model 210 but with brass valve.



Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		B		
					A			(mm)	(in)
210022	Socket/Female	¼	¼	1	60.7	2.39	25.9	1.02	
210215	Socket/Female	¼	⅜	1	60.7	2.39	25.9	1.02	

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		D		
					C			(mm)	(in)
3946	Plug/Male	¼	¼	2	54.4	2.14	11.9	0.47	
3947	Plug/Male	¼	⅝	2	54.4	2.14	11.9	0.47	
22238E	Plug/Male	¼	⅜	2	54.4	2.14	12.7	0.5	

310 Series

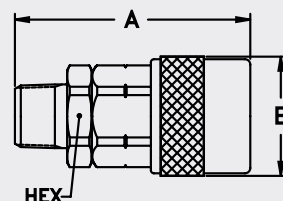


Figure 1

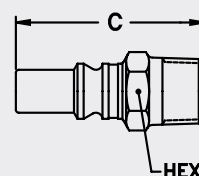


Figure 2

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
310313	Socket/Female	3/8	3/8	3/8-18	NPTF	1	60.2	2.37	30.7	1.21	23.9	0.94

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
22239E	Plug/Male	3/8	1/4	1/4-18	NPTF	2	48.5	1.91	18.3	0.72	16.0	0.63
3804	Plug/Male	3/8	3/8	3/8-18	NPTF	2	48.5	1.91	20.1	0.79	17.5	0.69

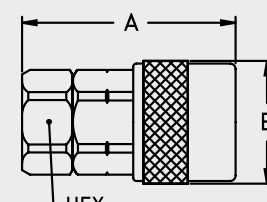


Figure 1

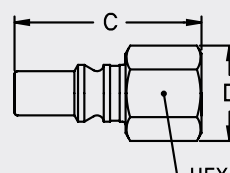


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
310	Socket/Female	3/8	3/8	3/8-18	NPTF	1	53.3	2.1	30.7	1.21	23.9	0.94

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3806	Plug/Male	3/8	3/8	3/8-18	NPTF	2	46.7	1.84	23.9	0.94	20.6	0.81

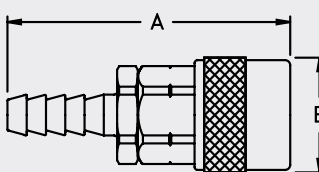


Figure 1

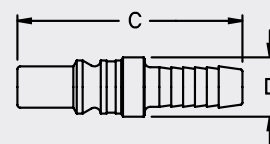


Figure 2

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		B		
					A			(mm)	(in)
310222	Socket/Female	3/8	3/8	1	75.4	2.97	30.7	1.21	

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		D		
					C			(mm)	(in)
3807	Plug/Male	3/8	3/8	2	60.2	2.37	15.0	0.59	

100 Series

Pneumatic application



Danfoss' 100 Series quick disconnect couplings are designed to prevent the crossing of lines. These couplings are used for compressed air and gases.

AMER region

Product Features

- Non-interchangeable design prevents crossing of lines
- Standard seal material: Buna-N
- Standard body material: Brass

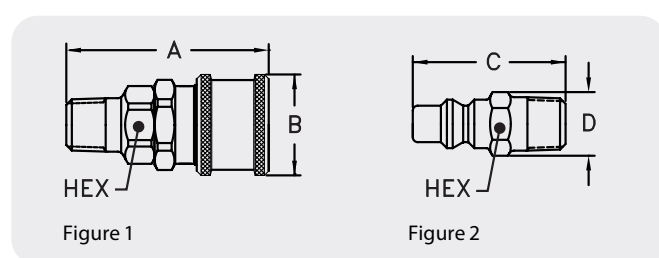
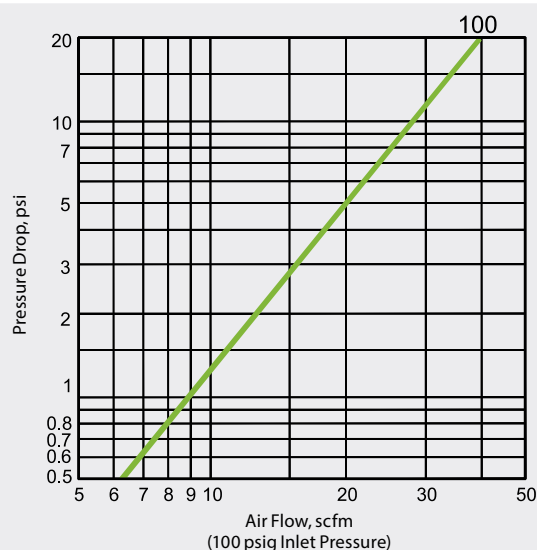
Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
100	¼	24	350	96	2,800	566	20

Applications & Markets

- General Pneumatics
- Industrial Plants

Flow Data



Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
101	Socket/Female	¼	⅜	⅜-27	NPTF	1	47.2	1.86	26.2	1.03	17.5	0.69
103	Socket/Female	¼	¼	¼-18	NPTF	1	52.1	2.05	26.2	1.03	17.5	0.69
105	Socket/Female	¼	⅜	⅜-18	NPTF	1	51.1	2.01	26.2	1.03	17.5	0.69

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
1G1	Plug/Male	¼	⅜	⅜-27	NPTF	2	35.1	1.38	16.5	0.65	14.2	0.56
1G3E	Plug/Male	¼	¼	¼-18	NPTF	2	39.6	1.56	16.5	0.65	14.2	0.56
1G5E	Plug/Male	¼	⅜	⅜-18	NPTF	2	39.6	1.56	20.1	0.79	17.5	0.69

100 Series

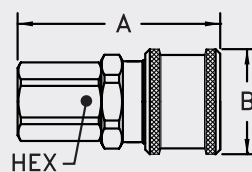


Figure 1

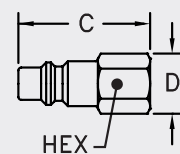


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
100E	Socket/Female	¼	⅜	⅜-27	NPTF	1	44.5	1.75	26.2	1.03	17.5	0.69
102E	Socket/Female	¼	¼	¼-18	NPTF	1	50.0	1.97	26.2	1.03	17.5	0.69
104	Socket/Female	¼	⅜	⅜-18	NPTF	1	52.1	2.05	26.2	1.03	19.1	0.75

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
1G2	Plug/Male	¼	¼	¼-18	NPTF	2	36.3	1.43	20.1	0.79	17.5	0.69

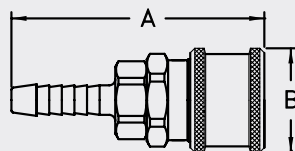


Figure 1

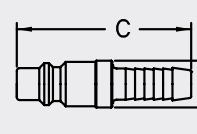


Figure 2

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		B	
					A			(in)
110E	Socket/Female	¼	¼	1	63.2	2.49	26.2	1.03
111E	Socket/Female	¼	⅝	1	63.2	2.49	26.2	1.03
112E	Socket/Female	¼	⅜	1	63.2	2.49	26.2	1.03

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		D	
					C			(in)
1G10E	Plug/Male	¼	¼	2	50.8	2.00	14.2	0.56
1G12E	Plug/Male	¼	⅜	2	51.6	2.03	14.2	0.56

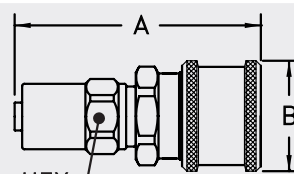


Figure 1

Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions					
						A		B		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
1GB3	Socket/Female	¼	¼	½	1	65.5	2.58	26.2	1.03	16.0	0.63
1GB7	Socket/Female	¼	¼	⅝	1	65.5	2.58	26.2	1.03	19.1	0.75
1GD9	Socket/Female	¼	⅜	⅞	1	68.6	2.70	26.2	1.03	20.6	0.81

Dust Caps and Dust Plugs

Series	Dust Cap	Dust Plug
600	XPPDC1HK	XPSDC1HK
700	XPPDC1HK	XPSDC1HK



180/280 Series

Pneumatic application



Danfoss’ 180/280 series miniature ball lock quick disconnect couplings are designed for use with compressed air, gases and liquids.

AMER region

Product Features

- Series 180 and 280 sockets/females mate with all Series 180 plugs/males
- Series 180 sockets/females have a tire valve
- Series 280 sockets/females have a 1HK valve, which provides higher flow capacity
- Chrome plating available as well as additional seal options
- Standard body material: Brass
- Standard seal material: Buna-N
- Interchange is proprietary to Danfoss

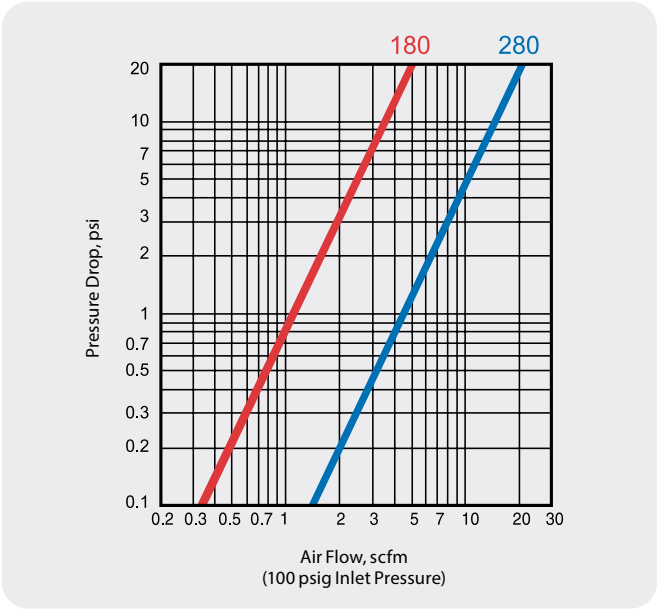
Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
180	1/8	48	700	192	2,800	71	2.5
280	1/8	207	3,000	828	1,200	283	10

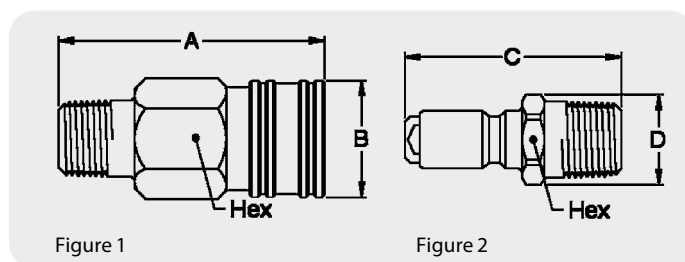
Applications & Markets

- Recreation and Entertainment
- Breathing Air
- General Pneumatics
- Pharmaceutical
- Laboratory Uses
- Medical

Flow Data



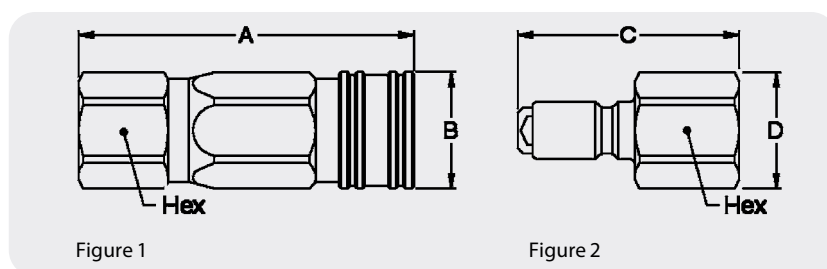
180/280 Series



Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
180	Socket/Female	⅝	⅝	⅝-27	NPTF	1	36.1	1.42	16.0	0.63	14.2	0.56
28S25M	Socket/Female	⅝	¼	¼-18	NPTF	1	35.3	1.39	16.0	0.63	14.2	0.56

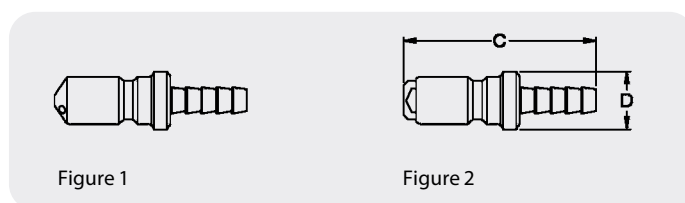
Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
185E	Plug/Male	⅝	⅝	⅝-27	NPTF	2	29.5	1.16	13.0	0.51	11.2	0.44
186	Plug/Male	⅝	¼	¼-18	NPTF	2	36.6	1.44	16.0	0.63	14.2	0.56



Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
28S12F	Socket/Female	⅝	⅝	⅝-27	NPTF	1	45.5	1.79	16.0	0.63	14.2	0.56

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
183	Plug/Male	1/8	1/8	1/8-27	NPTF	2	30.2	1.19	14.7	0.58	12.7	0.50



Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		B	
					A			
187	Plug/Male	1/8	1/8	1	31.8	1.25	9.7	0.38
189	Plug/Male	1/8	3/16	2	38.1	1.50	9.7	0.38

Full-Bore Series

Pneumatic application



Danfoss' Full-Bore Series is a premium automatic one-way shutoff quick disconnect coupling. Two sleeves must be actuated in sequence to bleed off back pressure and release the connector, preventing accidental uncoupling.

AMER region

Product Features

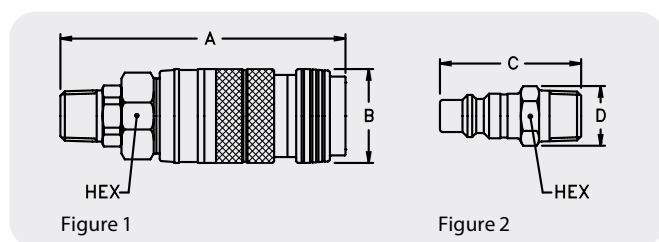
- Pressure relieving feature fully vents downstream air, making connection/disconnection fast and easy, and eliminating hose whip
- Unique straight through design eliminates restrictive springs and poppet valves, allowing unimpeded air flow
- Two sleeve activation prevents accidental disconnect
- Standard body material: Zinc trivalent plated carbon steel
- Standard seal material: Buna-N

Physical characteristics

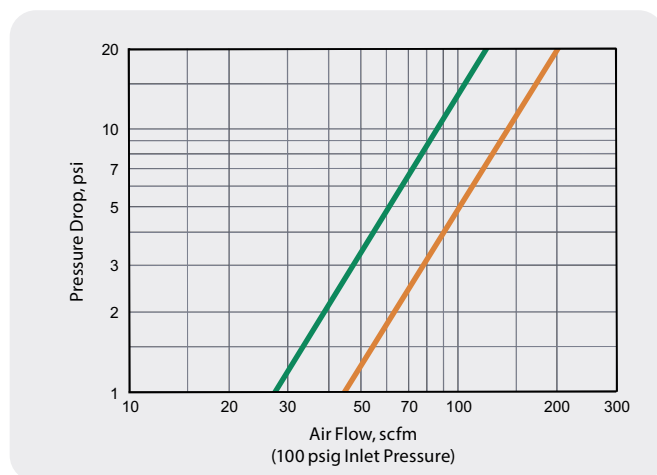
Series	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
3/8	15	250	60	1,000	1,784	63
1/2	15	250	60	1,000	2,860	101

Applications & Markets

- Construction
- Maintenance and Repair
- In-Plant/Industrial
- Railyards
- General Pneumatics



Flow Data

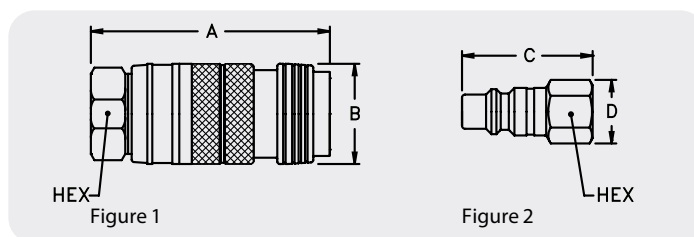


Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
23203013	Socket/Female	3⁄8	3⁄8	3⁄8-18	NPTF	1	96.5	3.80	31.8	1.25	25.4	1.00
23203014	Socket/Female	3⁄8	1⁄2	1⁄2-14	NPTF	1	71.1	4.10	31.8	1.25	25.4	1.00
23204014	Socket/Female	1⁄2	1⁄2	1⁄2-14	NPTF	1	112.5	4.43	35.1	1.38	28.7	1.13
23204015	Socket/Female	1⁄2	3⁄4	3⁄4-14	NPTF	1	118.6	4.67	35.1	1.38	28.7	1.13

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
40	Plug/Male	3⁄8	1⁄4	1⁄4-18	NPTF	2	47.8	1.88	18.3	0.72	16.0	0.63
42	Plug/Male	3⁄8	3⁄8	3⁄8-18	NPTF	2	47.8	1.88	20.1	0.79	17.5	0.69
44	Plug/Male	3⁄8	1⁄2	1⁄2-14	NPTF	2	53.1	2.09	25.7	1.01	22.4	0.88
52	Plug/Male	1⁄2	3⁄8	3⁄8-18	NPTF	2	57.2	2.25	22.1	0.87	19.1	0.75
54E	Plug/Male	1⁄2	1⁄2	1⁄2-14	NPTF	2	62.0	2.44	25.7	1.01	22.4	0.88
56	Plug/Male	1⁄2	3⁄4	3⁄4-14	NPTF	2	63.5	2.50	31.2	1.23	26.9	1.06

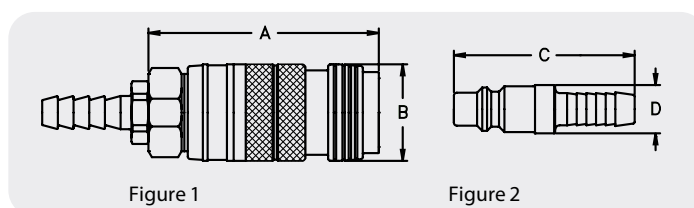
Full-Bore Series



Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
23203300	Socket/Female	3/8	3/8	3/8-18	NPTF	1	80.5	3.17	31.8	1.25	25.4	1.00
23203004	Socket/Female	3/8	1/2	1/2-14	NPTF	1	99.6	3.92	31.8	1.25	25.4	1.00
23204400	Socket/Female	1/2	1/2	1/2-14	NPTF	1	84.1	3.31	35.1	1.38	28.7	1.13
23204005	Socket/Female	1/2	3/4	3/4-14	NPTF	1	109.2	4.30	35.1	1.38	28.7	1.13

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
41	Plug/Male	3/8	1/4	1/4-18	NPTF	2	41.4	1.63	20.1	0.79	17.5	0.69
43	Plug/Male	3/8	3/8	3/8-18	NPTF	2	46.0	1.81	23.9	0.94	20.6	0.81
45E	Plug/Male	3/8	1/2	1/2-14	NPTF	2	52.3	2.06	29.2	1.15	25.4	1.00
53	Plug/Male	1/2	3/8	3/8-18	NPTF	2	52.3	2.06	23.9	0.94	20.6	0.81
55	Plug/Male	1/2	1/2	1/2-14	NPTF	2	59.4	2.34	29.2	1.15	25.4	1.00
57	Plug/Male	1/2	3/4	3/4-14	NPTF	2	62.0	2.44	34.8	1.37	30.2	1.19



Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		B	
					A			
					(mm)	(in)	(mm)	(in)
23203024	Socket/Female	3/8	1/4	1	110.7	4.36	31.8	1.25
23203025	Socket/Female	3/8	3/8	1	113.8	4.48	31.8	1.25
23204025	Socket/Female	1/2	1/2	1	121.9	4.80	35.1	1.38
23204026	Socket/Female	1/2	3/4	1	121.9	4.80	35.1	1.38

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		D	
					C			
					(mm)	(in)	(mm)	(in)
404	Plug/Male	3/8	1/4	2	59.4	2.34	16.0	0.63
406	Plug/Male	3/8	3/8	2	59.4	2.34	16.0	0.63
408	Plug/Male	3/8	1/2	2	59.4	2.34	20.6	0.81
59	Plug/Male	1/2	3/8	2	67.6	2.66	17.5	0.69
60	Plug/Male	1/2	1/2	2	67.6	2.66	19.1	0.75
61E	Plug/Male	1/2	3/4	2	88.9	3.50	25.4	1.00

Gas-Mate Series

Pneumatic application



Danfoss' Gas-Mate™ Series quick disconnect couplings are a one-way shut-off safety couplings designed for the connection of gas fired devices or applications.

AMER region

Product Features

- Connect and disconnect without the need for wrenches
- Automatic shut off when plug is removed from socket
- In case of fire, heat sensitive plug allows socket valve to close, stopping gas flow
- Tested to meet operating temperatures -40°F to 200°F (-40°C to 93°C) in sizes 3/8", 1/2", 3/4", and 1" when used in accordance with the CSA standard ANSI Z21.41b-2010/CSA 6.9b-2010 in both indoor and outdoor applications. Please note that the 1 1/4" size coupling is rated for indoor use only.
- Standard body material: Brass

Physical characteristics

Sizes	Max. Operating Pressure		Min. Burst Pressure	
	(bar)	(psi)	(bar)	(psi)
All sizes	0.03	0.5	68	1,000

Applications & Markets

- Industrial
- Fuel Gas Systems
- Food & Beverage



**CANADIAN
STANDARDS
ASSOCIATION***

*Complies with the requirements of
ANSI Z21.41B-2010/CSA 6.96-2010.*

* CSA design certified, in both the United States and Canada, for natural gas, manufactured gas, liquified petroleum and LP gas-air mixtures at pressures not in excess of 1/2 psig (3.5 kPa).

Capacities

Body Size	Socket/Female P/O/N	Plug/Male P/O/N	Capacity
(in)			btu/hr
3/8	100006E	100506	60,000
1/2	100008	100508	90,000
3/4	100010	100510	245,000
1	100012E	100512	310,000
1 1/4	GMS1250FH	GMP1250F	500,000

* Capacity is based on natural gas having a specific gravity of 0.64 and heat capacity of 1,000 BTU per cubic foot. Inlet pressure is 12 inches water column and the pressure drop is 0.3 inch water column.

Gas-Mate Series

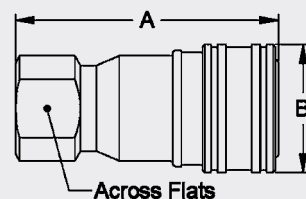


Figure 1

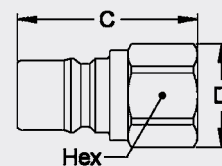


Figure 2

Sockets/Females

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Across Flats	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
100006E	Socket/Female	3/8	3/8	3/8-18	NPTF	1	62.0	2.44	28.7	1.13	22.1	0.87
100008	Socket/Female	1/2	1/2	1/2-14	NPTF	1	72.1	2.84	35.1	1.38	25.4	1.00
100010	Socket/Female	3/4	3/4	3/4-14	NPTF	1	80.5	3.17	44.5	1.75	33.3	1.31
100012E	Socket/Female	1	1	1-11 1/2	NPTF	1	100.1	3.94	54.1	2.13	38.1	1.50

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
GMS1250FH*	Socket/Female	1 1/4	1 1/4	1 1/4-11 1/2	NPTF	3	105.4	4.15	57.9	2.28	50.8	2.00

*For indoor use only

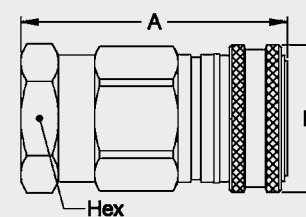


Figure 3

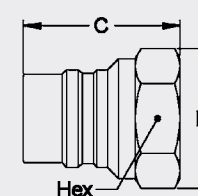


Figure 4

Plugs/Males

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
100506	Plug/Male	3/8	3/8	3/8-18	NPTF	2	40.4	1.59	23.9	0.94	20.6	0.81
100508	Plug/Male	1/2	1/2	1/2-14	NPTF	2	49.3	1.94	29.2	1.15	25.4	1.00
100510	Plug/Male	3/4	3/4	3/4-14	NPTF	2	52.3	2.06	38.4	1.51	33.3	1.31
100512	Plug/Male	1	1	1-11 1/2	NPTF	2	62.7	2.47	43.9	1.73	38.1	1.50
GMP1250F*	Plug/Male	1 1/4	1 1/4	1 1/4-11	NPTF	4	62.0	2.44	55.1	2.17	47.8	1.88

*For indoor use only

Dust Caps and Dust Plugs

Series	Dust Cap		Dust Plug	
	Metal	Vinyl	Metal	Vinyl
3/8	XPDC2HK*	XPPDC2HK	XPDC2HK*	XPPDC2HK
1/2	XPDC3HK*	XPPDC3HK	XPDC3HK*	XPPDC3HK
3/4	XPDC4HK**	XPPDC4HK	XPDC4HK**	XPPDC4HK
1	XPDC6HK**	XPPDC6HK	XPDC6HK**	XPPDC6HK

*Brass

**Aluminum



Complies with the requirements of
ANSI Z21.41B-2010/CSA 6.96-2010.

* CSA design certified, in both the United States and Canada, for natural gas, manufactured gas, liquified petroleum and LP gas-air mixtures at pressures not in excess of 1/2 psig (3.5 kPa).

2RL/3RL Series

Pneumatic application



Danfoss’ 2RL/3RL ring lock series quick disconnect pneumatic couplings have a unique interchange which Danfoss designed for use with compressed air.

AMER region

Product Features

- High Flow capacity
- Push to connect with a ring lock sleeve
- Ring lock design prevents accidental disconnection
- To disconnect rotate sleeve 20 degrees
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Buna-N
- Optional seal materials: Silicone–138, FKM–143, EPDM–192

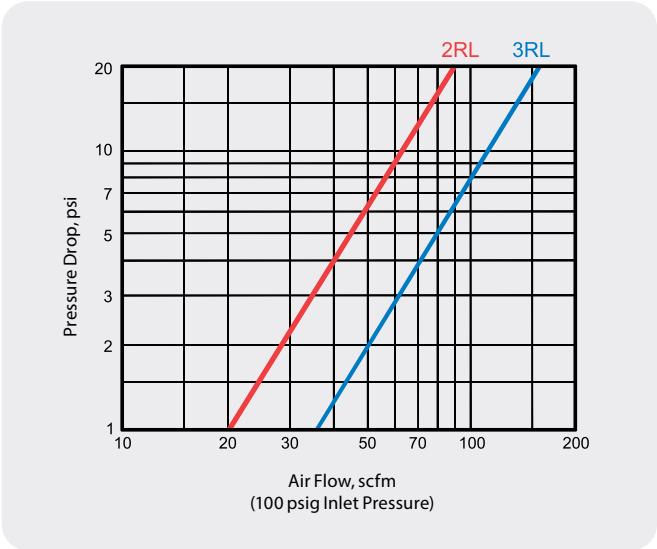
Physical characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
2RL	¼	20	300	80	1,200	1,350	48
3RL	¾	20	300	80	1,200	2,250	80

Applications & Markets

- Shipyards
- General Pneumatics
- Mining
- Marine

Flow Data



2RL Series

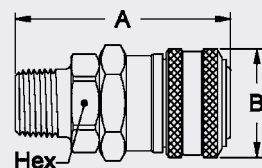


Figure 1

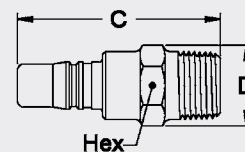


Figure 2

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
2R10	Socket/Female	¼	⅜	⅝-27	NPTF	1	51.1	2.01	26.9	1.06	22.4	0.88
2R15	Socket/Female	¼	¼	¼-18	NPTF	1	54.9	2.16	26.9	1.06	22.4	0.88
2R20	Socket/Female	¼	⅜	⅝-18	NPTF	1	54.9	2.16	26.9	1.06	22.4	0.88
2R25	Socket/Female	¼	½	½-14	NPTF	1	59.7	2.35	26.9	1.06	22.4	0.88

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
2L10	Plug/Male	¼	⅜	⅝-27	NPTF	2	38.4	1.51	14.7	0.58	12.7	0.50
2L15	Plug/Male	¼	¼	¼-18	NPTF	2	42.2	1.66	16.5	0.65	14.2	0.56
2L15G†	Plug/Male	¼	¼	¼-18	NPTF	2	67.1	2.64	19.6	0.77	17.5	0.69
2L20	Plug/Male	¼	⅜	⅝-18	NPTF	2	51.8	2.04	20.1	0.79	17.5	0.69
2L20G†	Plug/Male	¼	⅜	⅝-18	NPTF	2	67.1	2.64	19.6	0.77	17.5	0.69
2L25	Plug/Male	¼	½	½-14	NPTF	2	58.7	2.31	25.7	1.01	22.4	0.88

†With Bleeder Ball Check—Reduces Hose Whip

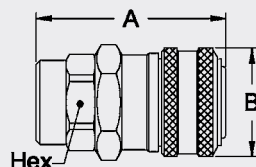


Figure 1

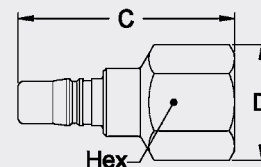


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
2R11	Socket/Female	¼	⅜	⅝-27	NPTF	1	48.5	1.91	26.9	1.06	22.4	0.88
2R16	Socket/Female	¼	¼	¼-18	NPTF	1	48.5	1.91	26.9	1.06	22.4	0.88
2R21	Socket/Female	¼	⅜	⅝-18	NPTF	1	54.9	2.16	26.9	1.06	22.4	0.88
2R26	Socket/Female	¼	½	½-14	NPTF	1	61.7	2.43	26.9	1.06	25.4	1.00

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
2L11	Plug/Male	¼	⅜	⅝-27	NPTF	2	34.5	1.36	16.5	0.65	14.2	0.56
2L16	Plug/Male	¼	¼	¼-18	NPTF	2	39.1	1.54	20.1	0.79	17.5	0.69
2L16G†	Plug/Male	¼	¼	¼-18	NPTF	2	64.8	2.55	19.6	0.77	17.5	0.69
2L21	Plug/Male	¼	⅜	⅝-18	NPTF	2	47.8	1.88	23.9	0.94	20.6	0.81
2L26	Plug/Male	¼	½	½-14	NPTF	2	55.4	2.18	29.2	1.15	25.4	1.00

†With Bleeder Ball Check—Reduces Hose Whip

2RL Series

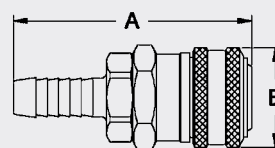


Figure 1

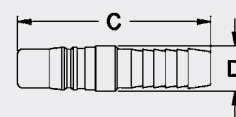


Figure 2

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					A		B	
					(mm)	(in)	(mm)	(in)
2R17	Socket/Female	¼	¼	1	66.8	2.63	26.9	1.06
2R195	Socket/Female	¼	⅜	1	66.8	2.63	26.9	1.06
2R22	Socket/Female	¼	⅜	1	66.8	2.63	26.9	1.06
2R27	Socket/Female	¼	½	1	66.8	2.63	26.9	1.06

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					C		D	
					(mm)	(in)	(mm)	(in)
2L17	Plug/Male	¼	¼	2	54.1	2.13	12.7	0.50
2L195	Plug/Male	¼	⅜	2	54.1	2.13	12.7	0.50
2L22	Plug/Male	¼	⅜	2	54.1	2.13	12.7	0.50
2L27	Plug/Male	¼	½	2	63.5	2.5	20.6	0.81

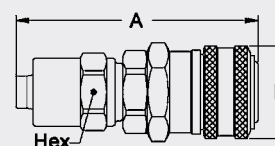


Figure 1

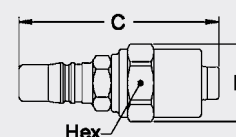


Figure 2

Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions					
						A		B		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
2R18B1	Socket/Female	¼	¼	1½/2	1	69.3	2.73	26.9	1.06	16.00	0.63
2R18B3	Socket/Female	¼	¼	½	1	69.3	2.73	26.9	1.06	16.00	0.63
2R18B7	Socket/Female	¼	¼	⅝	1	69.3	2.73	26.9	1.06	19.05	0.75
2R18B11	Socket/Female	¼	¼	¾	1	69.3	2.73	26.9	1.06	22.35	0.88
2R185C7	Socket/Female	¼	⅜	⅝	1	70.9	2.79	26.9	1.06	19.05	0.75
2R185C9	Socket/Female	¼	⅜	11/16	1	70.9	2.79	26.9	1.06	20.57	0.81
2R23D7	Socket/Female	¼	⅜	⅝	1	72.4	2.85	26.9	1.06	19.05	0.75
2R23D9	Socket/Female	¼	⅜	11/16	1	72.4	2.85	26.9	1.06	20.57	0.81
2R23D11	Socket/Female	¼	⅜	¾	1	72.4	2.85	26.9	1.06	22.35	0.88
2R23D13	Socket/Female	¼	⅜	13/16	1	72.4	2.85	26.9	1.06	23.88	0.94
2R28P13	Socket/Female	¼	½	13/16	1	88.4	3.48	26.9	1.06	23.88	0.94
2R28P15	Socket/Female	¼	½	7/8	1	88.4	3.48	26.9	1.06	25.40	1.00

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions					
						C		D		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
2L18B3	Plug/Male	¼	¼	½	2	56.6	2.23	17.8	0.70	16.00	0.63
2L185C7	Plug/Male	¼	⅜	⅝	2	58.2	2.29	21.3	0.84	19.05	0.75
2L185C9	Plug/Male	¼	⅜	11/16	2	58.2	2.29	23.1	0.91	20.57	0.81
2L23D5	Plug/Male	¼	⅜	9/16	2	59.7	2.35	19.6	0.77	17.53	0.69
2L23D7	Plug/Male	¼	⅜	⅝	2	59.7	2.35	21.3	0.84	19.05	0.75
2L23D9	Plug/Male	¼	⅜	11/16	2	59.7	2.35	23.1	0.91	20.57	0.81
2L23D11	Plug/Male	¼	⅜	¾	2	59.7	2.35	24.9	0.98	22.35	0.88
2L23D13	Plug/Male	¼	⅜	13/16	2	59.7	2.35	26.7	1.05	23.88	0.94
2L28P13	Plug/Male	¼	½	13/16	2	86.6	3.41	26.7	1.05	23.88	0.94
2L28P15	Plug/Male	¼	½	7/8	2	86.6	3.41	28.4	1.12	25.40	1.00

3RL Series

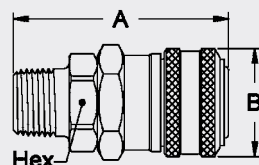


Figure 1

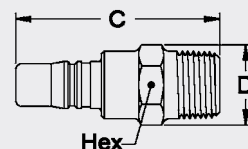


Figure 2

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3R15	Socket/Female	¾	¼	¼-18	NPTF	1	59.4	2.34	33.3	1.31	25.4	1.00
3R20	Socket/Female	¾	¾	¾-18	NPTF	1	59.7	2.35	33.3	1.31	25.4	1.00
3R25	Socket/Female	¾	½	½-14	NPTF	1	64.5	2.54	33.3	1.31	25.4	1.00
3R30	Socket/Female	¾	¾	¾-14	NPTF	1	64.5	2.54	33.3	1.31	26.9	1.06

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3L10	Plug/Male	3/8	1/8	1/8-27	NPTF	2	39.1	1.54	18.3	0.72	16.0	0.63
3L15	Plug/Male	3/8	1/4	1/4-18	NPTF	2	43.2	1.70	18.3	0.72	16.0	0.63
3L15G†	Plug/Male	3/8	1/4	1/4-18	NPTF	2	67.1	2.64	24.9	0.98	22.4	0.88
3L20	Plug/Male	3/8	3/8	3/8-18	NPTF	2	44.7	1.76	20.1	0.79	17.5	0.69
3L20G†	Plug/Male	3/8	3/8	3/8-18	NPTF	2	67.1	2.64	24.9	0.98	22.4	0.88
3L25	Plug/Male	3/8	1/2	1/2-14	NPTF	2	58.7	2.31	25.7	1.01	22.4	0.88
3L25G†	Plug/Male	3/8	1/2	1/2-14	NPTF	2	71.9	2.83	24.9	0.98	22.4	0.88
3L30	Plug/Male	3/8	3/4	3/4-14	NPTF	2	60.5	2.38	31.2	1.23	26.9	1.06
3L30G†	Plug/Male	3/8	3/4	3/4-14	NPTF	2	73.2	2.88	30.2	1.19	26.9	1.06

†With Bleeder Ball Check—Reduces Hose Whip

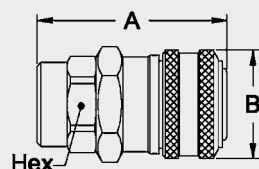


Figure 1

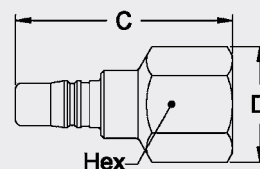


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3R16	Socket/Female	¾	¼	¼-18	NPTF	1	58.2	2.29	33.3	1.31	25.4	1.00
3R21	Socket/Female	¾	¾	¾-18	NPTF	1	59.7	2.35	33.3	1.31	25.4	1.00
3R26	Socket/Female	¾	½	½-14	NPTF	1	66.8	2.63	33.3	1.31	25.4	1.00
3R31A	Socket/Female	¾	¾	¾-14	NPTF	1	67.6	2.66	33.3	1.31	30.2	1.19

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
							C		D		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
3L16	Plug/Male	⅜	¼	¼-18	NPTF	2	37.6	1.48	20.1	0.79	17.5	0.69
3L16G†	Plug/Male	⅜	¼	¼-18	NPTF	2	60.7	2.39	24.9	0.98	22.4	0.88
3L21	Plug/Male	⅜	⅜	⅜-18	NPTF	2	41.4	1.63	23.9	0.94	20.6	0.81
3L26	Plug/Male	⅜	½	½-14	NPTF	2	57.2	2.25	29.2	1.15	25.4	1.00
3L26G†	Plug/Male	⅜	½	½-14	NPTF	2	73.9	2.91	24.9	0.98	25.4	1.00
3L31	Plug/Male	⅜	¾	¾-14	NPTF	2	57.2	2.25	34.8	1.37	30.2	1.19

†With Bleeder Ball Check—Reduces Hose Whip

3RL Series

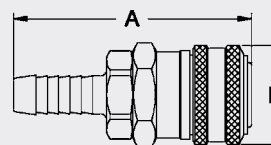


Figure 1

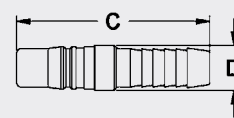


Figure 2

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					A		B	
					(mm)	(in)	(mm)	(in)
3R17	Socket/Female	3/8	1/4	1	72.4	2.85	33.3	1.31
3R195	Socket/Female	3/8	5/16	1	72.4	2.85	33.3	1.31
3R22	Socket/Female	3/8	3/8	1	73.4	2.89	33.3	1.31
3R27	Socket/Female	3/8	1/2	1	71.4	2.81	33.3	1.31
3R32	Socket/Female	3/8	3/4	1	93.0	3.66	33.3	1.31

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					C		D	
					(mm)	(in)	(mm)	(in)
3L17	Plug/Male	3/8	1/4	2	54.9	2.16	16.0	0.63
3L17G†	Plug/Male	3/8	1/4	2	79.0	3.11	24.9	0.98
3L195	Plug/Male	3/8	5/16	2	54.9	2.16	16.0	0.63
3L195G†	Plug/Male	3/8	5/16	2	79.0	3.11	24.9	0.98
3L22	Plug/Male	3/8	3/8	2	54.9	2.16	19.1	0.75
3L22G†	Plug/Male	3/8	3/8	2	79.0	3.11	24.9	0.98
3L27	Plug/Male	3/8	1/2	2	54.9	2.16	20.6	0.81
3L27G†	Plug/Male	3/8	1/2	2	79.0	3.11	24.9	0.98
3L32	Plug/Male	3/8	3/4	2	79.5	3.13	25.4	1.00
3L32G†	Plug/Male	3/8	3/4	2	100.6	3.96	24.9	0.98

†With Bleeder Ball Check—Reduces Hose Whip

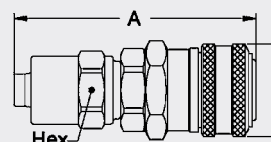


Figure 1

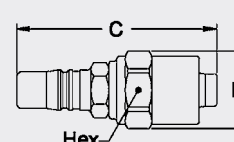


Figure 2

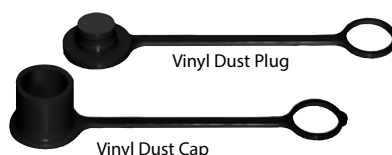
Hose Clamp End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions					
						A		B		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
3R23D7	Socket/Female	3/8	3/8	5/8	1	77.7	3.06	33.3	1.31	19.05	0.75
3R23D9	Socket/Female	3/8	3/8	1 1/16	1	77.7	3.06	33.3	1.31	20.57	0.81
3R23D11	Socket/Female	3/8	3/8	3/4	1	77.7	3.06	33.3	1.31	22.35	0.88
3R28P13	Socket/Female	3/8	1/2	1 1/16	1	93.0	3.66	33.3	1.31	23.88	0.94
3R28P15	Socket/Female	3/8	1/2	7/8	1	93.0	3.66	33.3	1.31	25.40	1.00
3R28P17	Socket/Female	3/8	1/2	1 1/16	1	93.0	3.66	33.3	1.31	26.92	1.06
3R33R23	Socket/Female	3/8	3/4	1 1/8	1	96.3	3.79	33.3	1.31	31.75	1.25
3R33R25	Socket/Female	3/8	3/4	1 3/16	1	96.3	3.79	33.3	1.31	33.27	1.31

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions					
						C		D		Hex	
						(mm)	(in)	(mm)	(in)	(mm)	(in)
3L23D7	Plug/Male	3/8	3/8	5/8	2	62.2	2.45	21.3	0.84	19.05	0.75
3L23D9	Plug/Male	3/8	3/8	1 1/16	2	62.2	2.45	23.1	0.91	20.57	0.81
3L23D11	Plug/Male	3/8	3/8	3/4	2	62.2	2.45	24.9	0.98	22.35	0.88
3L28P13	Plug/Male	3/8	1/2	1 1/16	2	79.8	3.14	26.7	1.05	23.88	0.94
3L28P15	Plug/Male	3/8	1/2	7/8	2	79.8	3.14	28.4	1.12	25.40	1.00
3L33R23	Plug/Male	3/8	3/4	1 1/8	2	90.4	3.56	35.6	1.40	31.75	1.25
3L33R25	Plug/Male	3/8	3/4	1 3/16	2	90.4	3.56	37.3	1.47	33.27	1.31

Dust Caps and Dust Plugs

Series	Dust Cap	Dust Plug
2RL	XPPDC1HK	XPSDC1HK
3RL	XPPDC2HK	XPSDC2HK



Vinyl Dust Plug

Vinyl Dust Cap

Flex-Air Series

Pneumatic application



Danfoss' Flex-Air™ fittings are designed to rotate 360 degrees up to a 75° angle. These fittings help to alleviate Carpal Tunnel Syndrome and other stress related injuries in the workplace.

AMER region

Product Features

- Unique design provides free 360 degree rotation with up to a 75° flex angle in any direction
- Many styles and sizes available
- Prevents kinking of air supply hose

Physical characteristics

Sizes	Max. Operating Pressure		Min. Burst Pressure	
	(bar)	(psi)	(bar)	(psi)
All sizes	10	145	40	580

Applications & Markets

- General Industry
- Pneumatic Tools

Capacities

Flex-Air Series

AMER region

Part/Order Number	Type	Fig.	Connector Ends	ID
FA25F25M	Female to Male	1	1/4" NPT Female & 1/4" NPT Male	0.2" (5 mm)
FA25F37M	Female to Male	2	1/4" NPT Female & 3/8" NPT Male	0.3" (7.5 mm)
FA37F37M	Female to Male	3	3/8" NPT Female & 3/8" NPT Male	0.3" (7.5 mm)
FA37H37M	Hose Barb to Male	4	3/8" Barb & 3/8" NPT Male	0.3" (7.5 mm)
FA25M25M	Male to Male	5	1/4" NPT Male & 1/4" NPT Male	0.2" (5 mm)
FA37M37M	Male to Male	6	3/8" NPT Male & 3/8" NPT Male	0.3" (7.5 mm)
FA25AR25M	ARO to Male	7	ARO 210 Interchange & 1/4" NPT	0.2" (5 mm)
FA25P25M	Industrial Plug to Male	8	1/4" Industrial Interchange & 1/4" NPT Male	0.2" (5 mm)
FA37P25M	Industrial Plug to Male	9	3/8" Industrial Interchange & 1/4" NPT Male	0.3" (7.5 mm)



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



Figure 8

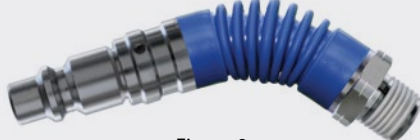


Figure 9

Blow-Guns

Pneumatic application



Danfoss offers two styles of blow-guns to fit your application needs.

Product Features

100 Series

- Progressive flow-control
- The airtight version protects the operator against particle blow-back
- Body material: Nickel-plated brass
- Seals: NBR

200 Series

- Pressure reduces to 2 bar(30 PSI) if the nozzle is obstructed by an obstacle
- Complies with OSHA STD 01-13-2001 standard

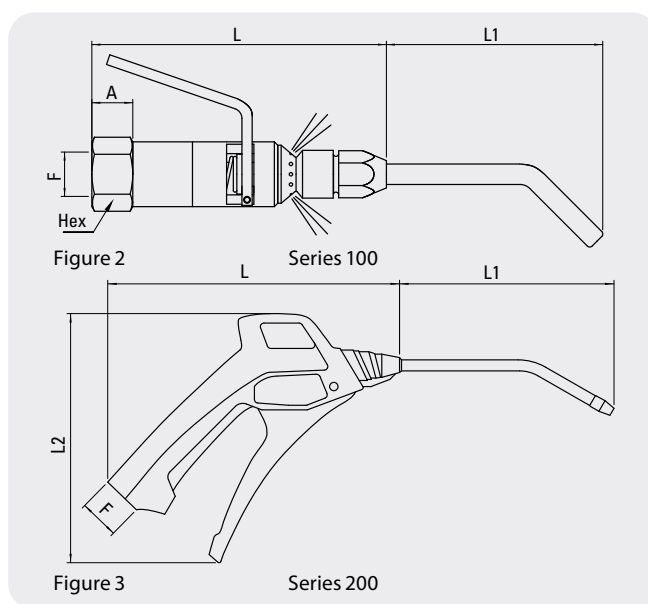
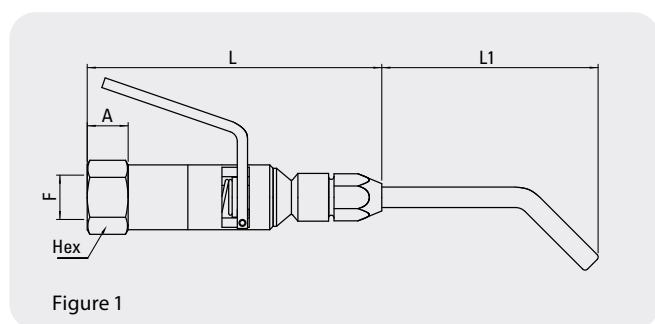
- When in use, the gun is designed to produce low noise levels with the comfort of the operator in mind. Complies with Directive 2003/10/EC and OSHA 1910.95(b) standard
- The "soft touch" trigger and ergonomic design make it easy to grip and handle, even with work gloves. The graduated-opening system enables the operator to adjust the flow rate to his/her requirements.
- Body material: Nylon
- Nozzle: Stainless steel
- Seals: NBR

Physical characteristics

Series	Type	Connection	Max. Operating Pressure		Temperature Range	
			(bar)	(psi)	C	F
100	Metal	G 1/4	20	290	+100C/-20C	+212F/-4F
200	Plastic	G 1/4	10	145	+70C/-20C	+158F/-4F

Applications & Markets

- Pneumatic
- Manufacturing and Assembly

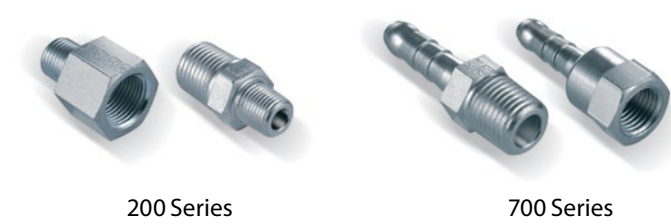


Series	Part/Order Number	Description	Fig.	F	L	L1	Hex	A	Weight
				(mm)	(mm)	(mm)	(mm)	(g)	
100	SA0017014	Progressive flow blow gun	1	G 1/4	90	65	19	12	150
100	SA0017514	Blow gun with airtight	2	G 1/4	90	65	19	12	150

Series	Part/Order Number	Description	Fig.	F	L	L1	L2	Weight
				(mm)	(mm)	(mm)	(g)	
200	SP0020014	Blow gun with metal nozzle	3	G 1/4	153	105	130	140

Adapters

Pneumatic application



Product Features

- 200 Series

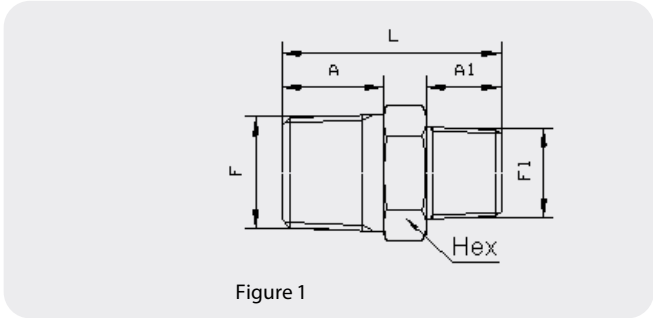
 - Zinc-plated steel
- 700 Series

 - Zinc-plated steel

*EL is brass

Physical characteristics

Series	Max. Operating Pressure	
	(bar)	(psi)
200	120-250	1740-3625
700	35	508



200 Series

Male BSP Taper Nipple				Dimensions					
Connection F	Connection F1	Part/Order Number	Fig.	L	A	Hex	A1	Weight	Pressure
				(mm)	(mm)	(mm)	(mm)	(g)	(bar)
R 1/8	R 1/8	MA0024318	1	26	10	12	10	13	250
R 1/4	R 1/8	MA0024484	1	31	14	14	10	20	250
R 3/8	R 1/8	MA0024588	1	32	15	17	9	29	250
R 1/4	R 1/4	MA0024314	1	35	14	14	14	25	250
R 3/8	R 1/4	MA0024448	1	36	15	17	14	34	250
R 1/2	R 1/4	MA0024524	1	41	19	22	14	62	250
R 3/8	R 3/8	MA0024338	1	37	15	17	15	39	250
R 1/2	R 3/8	MA0024482	1	42	19	22	15	67	250
R 3/4	R 3/8	MA0024548	1	44	20	27	15	95	175
R 1/2	R 1/2	MA0024312	1	46	19	22	19	68	250
R 3/4	R 1/2	MA0024424	1	48	20	27	19	94	175
R 1	R 1/2	MA0024512	1	53	24	36	19	191	150
R 3/4	R 3/4	MA0024334	1	49	20	27	20	107	175
R 1	R 3/4	MA0024441	1	54	24	36	20	182	150
R 1	R 1	MA0024310	1	58	24	36	24	205	150

Adapters

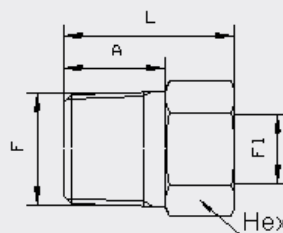


Figure 2

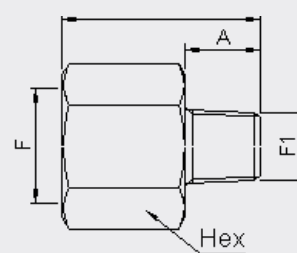


Figure 3

200 Series (cont.)

Reducing Bush				Dimensions				
Connection F	Connection F1	Part/Order Number	Fig.	L	A	Hex	Weight	Pressure
				(mm)	(mm)	(mm)	(g)	(bar)
R ¼	G ⅝	MA0025548	2	21	14	14	14	250
R ⅜	G ⅝	MA0025688	2	22	15	17	27	250
R ⅜	G ¾	MA0025584	2	23	15	19	20	250
R ½	G ¾	MA0025624	2	27	19	22	49	250
R ½	G ⅞	MA0025528	2	27	19	22	37	250
R ¾	G ⅞	MA0025648	2	29	20	27	77	175
R ¾	G 1	MA0025542	2	29	20	27	52	175
R 1	G 1	MA0025612	2	34	24	36	139	150
R 1	G 1 ¼	MA0025514	2	34	24	36	100	150

Female/Male Reducer				Dimensions				
Connection F	Connection F1	Part/Order Number	Fig.	L	A	Hex	Weight	Pressure
				(mm)	(mm)	(mm)	(g)	(bar)
G ¼	R ⅝	MA0024248	3	31	10	19	40	250
G ⅜	R ⅝	MA0026888	3	32	10	22	49	250
G ⅜	R ¾	MA0024284	3	35	14	22	46	250
G ½	R ¾	MA0026824	3	41	14	27	84	250
G ½	R ⅞	MA0024228	3	40	15	27	80	250
G ¾	R ⅞	MA0026848	3	44	15	36	172	175
G ¾	R 1	MA0024242	3	47	19	32	125	175
G 1	R 1	MA0026812	3	56	19	41	230	150
G 1	R 1 ¼	MA0024214	3	55	20	41	240	150

Adapters

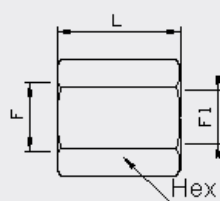


Figure 1

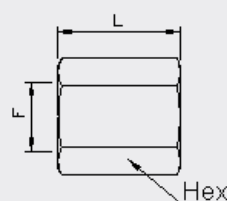


Figure 2

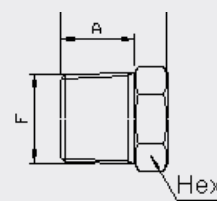


Figure 3

200 Series (cont.)

Reducing Socket				Dimensions				
Connection F	Connection F1	Part/Order Number	Fig.	L	A	Hex	Weight	Pressure
				(mm)	(mm)	(mm)	(g)	(bar)
G ¼	G ½	MA0026748	1	24	-	19	39	250
G ⅜	G ¼	MA0026784	1	27	-	22	53	250
G ½	G ⅜	MA0026728	1	32	-	27	89	250
G ¾	G ½	MA0026742	1	36	-	32	126	175
G 1	G ¾	MA0026714	1	45	-	41	131	150

Equal Socket				Dimensions				
Connection F	Connection F1	Part/Order Number	Fig.	L	A	Hex	Weight	Pressure
				(mm)	(mm)	(mm)	(g)	(bar)
G ⅜	-	MA0026918	2	20	-	14	17	250
G ¼	-	MA0026914	2	25	-	19	35	250
G ⅜	-	MA0026938	2	27	-	22	45	250
G ½	-	MA0026912	2	35	-	27	76	250
G ¾	-	MA0026934	2	40	-	32	113	175
G 1	-	MA0026910	2	45	-	41	217	150

Male-Threaded Cap				Dimensions				
Connection F	Connection F1	Part/Order Number	Fig.	L	A	Hex	Weight	Pressure
				(mm)	(mm)	(mm)	(g)	(bar)
R ⅜	-	MA0026618	3	16	10	12	10	250
R ¼	-	MA0026614	3	21	14	14	22	250
R ⅜	-	MA0026638	3	22	15	17	31	250
R ½	-	MA0026612	3	27	19	22	55	250
R ¾	-	MA0026634	3	29	20	27	89	175
R 1	-	MA0026610	3	34	24	36	164	150

Adapters

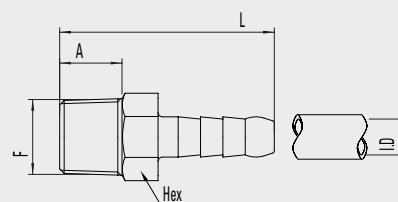


Figure 1

700 Series

Male-Threaded Hose Tail				Dimensions			
Connection F	Hose I.D.	Part/Order Number	Fig.	L	A	Hex	Weight
				(mm)	(mm)	(mm)	(g)
R 1/8	6	EL0070267	1	32	7.5	12	10
R 1/8	7	EA0070278	1	41	9	14	15
R 1/8	8	EA0070289	1	41	9	14	16
R 1/8	9	EA0070290	1	41	9	14	18
R 1/4	6	EA0070467	1	45	13	14	18
R 1/4	7	EA0070478	1	45	13	14	19
R 1/4	8	EA0070489	1	45	13	14	20
R 1/4	9	EA0070490	1	45	13	14	20
R 1/4	10	EA0070401	1	45	13	14	21
R 1/4	11	EA0070411	1	50	13	14	24
R 1/4	12	EA0070412	1	50	13	17	31
R 1/4	13	EA0070413	1	50	13	17	36
R 3/8	7	EA0070678	1	48	14	17	31
R 3/8	8	EA0070689	1	48	14	17	32
R 3/8	9	EA0070690	1	48	14	17	33
R 3/8	10	EA0070601	1	48	14	17	33
R 3/8	11	EA0070611	1	49	14	17	33
R 3/8	12	EA0070612	1	53	14	17	36
R 3/8	13	EA0070613	1	53	14	19	43
R 3/8	16	EA0070616	1	60	14	19	50
R 1/2	8	EA0070889	1	52	17	22	50
R 1/2	11	EA0070811	1	57	17	22	55
R 1/2	12	EA0070812	1	57	17	22	55
R 1/2	13	EA0070813	1	57	17	22	58
R 1/2	16	EA0070816	1	63	17	22	61
R 1/2	19	EA0070819	1	69	17	22	73
R 3/4	16	EA0071016	1	65	19	27	85
R 3/4	19	EA0071019	1	71	19	27	100
R 3/4	25	EA0071025	1	77	19	27	130
R 1	19	EA0072019	1	76	22	35	165
R 1	25	EA0072025	1	82	22	35	203
R 1	30	EA0072030	1	94	22	35	270

Adapters

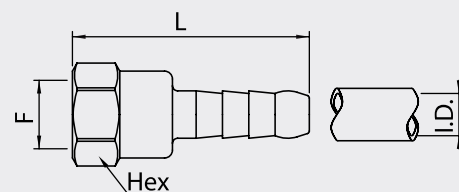


Figure 2

700 Series (cont.)

Female-Threaded Hose Tail				Dimensions			
Connection F	Hose I.D.	Part/Order Number	Fig.	L	A	Hex	Weight
				(mm)	(mm)	(mm)	(g)
G ¼	6	EA0078167	2	45	-	17	23
G ¼	7	EA0078178	2	45	-	17	23
G ¼	8	EA0078189	2	45	-	17	25
G ¼	9	EA0078190	2	45	-	17	26

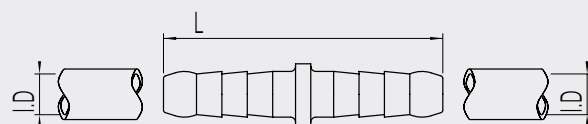


Figure 3

Hose Splicer				Dimensions			
Connection F	Hose I.D.	Part/Order Number	Fig.	L	A	Hex	Weight
				(mm)	(mm)	(mm)	(g)
-	6	EA0079767	3	55	-	-	10
-	7	EA0079778	3	55	-	-	13
-	8	EA0079789	3	55	-	-	14
-	9	EA0079790	3	55	-	-	16
-	10	EA0079701	3	55	-	-	19
-	12	EA0079712	3	55	-	-	24
-	16	EA0079716	3	78	-	-	50
-	19	EA0079719	3	88	-	-	81

FLOCS

(Fast Lube Oil Change System)



Table of Contents

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FD14 Series Oil Drain Coupling

FLOCS application

AMER region



Danfoss’ FD14 Drain Coupling is designed to serve as a drain port for use with Danfoss’ FLOCS (Fast Lube Oil Change System) as well as providing a purging port for use during pre-fill operations. The FD14 provides a leak free push to connect operation for improving speed and efficiency for oil evacuation systems.

Product Features

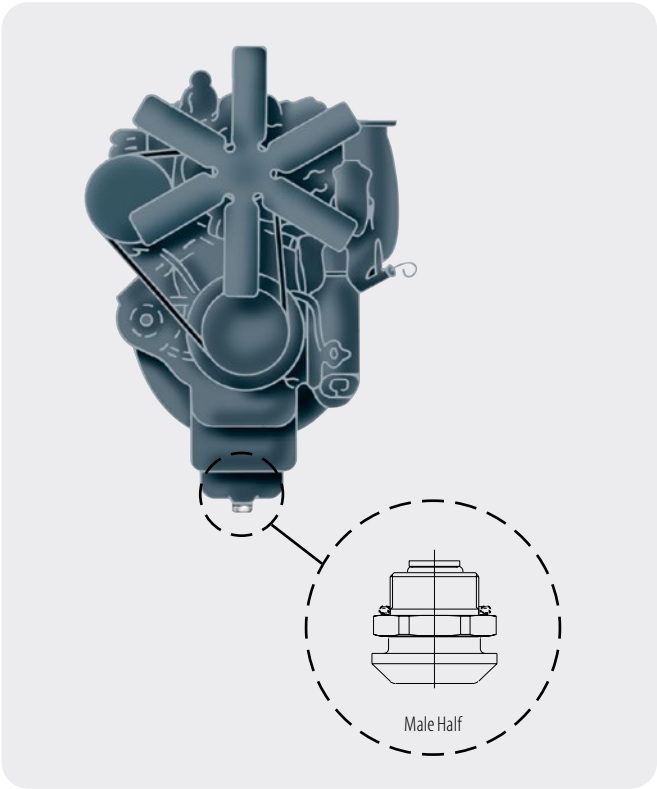
- Low-Profile design with multiple sealing mechanisms
- Push-To-Connect socket/female half for easy onehand operation
- Broad range of standard thread styles for plug/male half
- Utilizes a Copper-Crush gasket to seat against the port face
- Standard plug/male half seal material: FKM
- Standard socket/female half seal material: Buna-N
- Standard body material: High resistance carbon steel with zinc trivalent plating with zinc die-cast valve

Physical characteristics

Body Size			Max. Operating Pressure Connected		Min. Burst Pressure Connected Only		Vacuum Flow	Rated Flow	
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)
3/8	3.5	50	7.0	200			28	12	3

Applications & Markets

- Automated oil evacuation systems
- Gravity drain oil evacuation systems



FD14 Series Oil Drain Coupling

AMER region

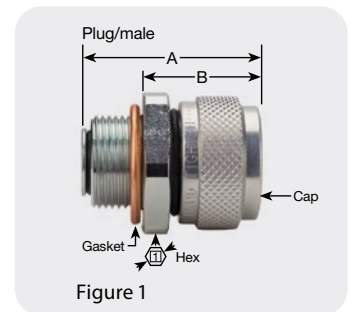


Figure 1

Dimensions (English Thread)

Dimensions										Part/Order Number			
Body Size	Thread Size	Fig.	A		B		Hex  Torque		Min. Assy. (Gasket & Cap)	Assembly (includes Copper-Crush)	Gasket (Brass)	Cap	
	P		(mm)	(in)	(mm)	(in)	(mm)	(in)	N-m (lbs-ft)*				
3/8"	1 1/8-12 UN-2A	1	39.1	1.54	24.4	0.96	38.1	1 1/2	41-81 (30-60)*	FD14-4002-20-06	FD14-1206-08	FD14-1210-06	
3/8"	1 1/4-18 UNEF-2A	1	39.1	1.54	24.4	0.96	38.1	1 1/2	41-81 (30-60)*	FD14-4002-05-06	FD14-1206-11	FD14-1210-06	
3/8"	1 1/8-12 UNF-2A	1	39.1	1.54	24.4	0.96	38.1	1 1/2	41-81 (30-60)*	FD14-4002-14-06	FD14-1206-09	FD14-1210-06	
3/8"	1/2-14 DRYSEAL NPTF	1	40.6	1.60	24.4	0.96	27.0	1 1/16	- -	FD14-4002-27-06*	None Needed	FD14-1210-06	
3/8"	1/2-14 UNS-2A	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-33 (20-24)*	FD14-4002-22-06*	FD14-1206-01	FD14-1210-06	
3/8"	1/2-20 UNF-2A	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-33 (20-24)*	FD14-4002-01-06*	FD14-1206-01	FD14-1210-06	
3/8"	1-18 UNS-2A	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-06-06	FD14-1206-07	FD14-1210-06	
3/8"	3/4-14 DRYSEAL NPTF	1	43.8	1.72	24.4	0.96	31.8	1 1/4	- -	FD14-4002-26-06	None Needed	FD14-1210-06	
3/8"	3/4-16 UNF-2A	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-68 (30-50)*	FD14-4002-09-06	FD14-1206-04	FD14-1210-06	
3/8"	3/8-18 UNF-2A	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-54 (20-40)*	FD14-4002-08-06*	FD14-1206-03	FD14-1210-06	
3/8"	7/8-14 UNF-2A	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-10-06	FD14-1206-06	FD14-1210-06	
3/8"	7/8-18 UNS-2A	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-07-06	FD14-1206-06	FD14-1210-06	
3/8"	9/16-18 UNF-2A	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-54 (20-40)*	FD14-4002-12-06*	FD14-1206-02	FD14-1210-06	

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

Dimensions (English Thread)

Dimensions										Part/Order Number			
Body Size	Thread Size	Fig.	A		B		Hex  Torque		Min. Assy. (Gasket & Cap)	Assembly (includes Copper-Crush)	Gasket (Brass)	Cap	
	P		(mm)	(in)	(mm)	(in)	(mm)	(in)	N-m (lbs-ft)				
3/8"	M12 X 1.5 6g	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-33 (20-24)*	FD14-4002-23-06*	FD14-1206-01	FD14-1210-06	
3/8"	M12 X 1.75 6g	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-33 (20-24)*	FD14-4002-25-06*	FD14-1206-01	FD14-1210-06	
3/8"	M14 X 1.25 6g	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-33 (20-24)*	FD14-4002-03-06*	FD14-1206-02	FD14-1210-06	
3/8"	M14 X 1.5 6g	1	38.6	1.52	24.4	0.96	27.0	1 1/16	27-33 (20-24)*	FD14-4002-24-06*	FD14-1206-02	FD14-1210-06	
3/8"	M18 X 1.5 6g	1	38.6	1.52	24.4	0.96	31.8	1 1/4	27-33 (20-24)*	FD14-4002-02-06*	FD14-1206-04	FD14-1210-06	
3/8"	M20 X 1.5 6g	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-16-06	FD14-1206-05	FD14-1210-06	
3/8"	M22 X 1.5 6g	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-18-06	FD14-1206-06	FD14-1210-06	
3/8"	M24 X 1.5 6g	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-19-06	FD14-1206-07	FD14-1210-06	
3/8"	M24 X 2 6g	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-11-06	FD14-1206-07	FD14-1210-06	
3/8"	M25 X 1.5 6g	1	39.1	1.54	24.4	0.96	31.8	1 1/4	41-81 (30-60)*	FD14-4002-17-06	FD14-1206-07	FD14-1210-06	
3/8"	M27 X 2 6g	1	36.3	1.43	24.4	0.96	38.1	1 1/2	41-81 (30-60)*	FD14-4002-29-06	FD14-1206-06	FD14-1210-06	
3/8"	M30 X 1.5 6g	1	39.1	1.54	24.4	0.96	38.1	1 1/2	41-81 (30-60)*	FD14-4002-21-06	FD14-1206-10	FD14-1210-06	

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

Dimensions (Socket/Female Half NPTF, Valved)

Dimensions									Part/Order Number	
Body Size	Thread Size	Fig.	A		B		Hex 		Assembly	
	P		(mm)	(in)	(mm)	(in)	(mm)	(in)		
3/8"	3/4-14 Dryseal NPTF	2	46.5	1.83	45.7	1.80	33.0	1 3/16	FD14-1001-12-06	

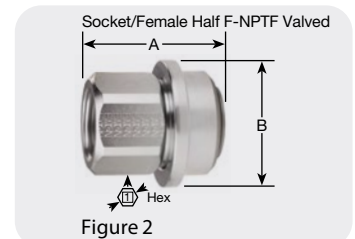


Figure 2

Dimensions (Socket/Female Half Assembly, Non-Valved)

Dimensions									Part/Order Number	
Body Size	Thread Size	Fig.	A		B		Assembly			
	P		(mm)	(in)	(mm)	(in)				
3/8"	3/8 SOCKETLESS™	3	59.4	2.34	38.1	1.50			FD14-4003-10-06	

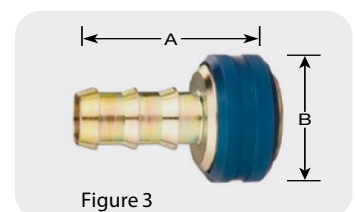


Figure 3

FD14 Series Oil Drain Coupling

Dimensions (Cap Molded Rubber)

Body Size	Fig.	Dimensions				Part/Order Number
		A		B		Cap (Buna-N)
		(mm)	(in)	(mm)	(in)	
3/8	4	13.2	0.519	35.6	1.40	FD14-1204-06

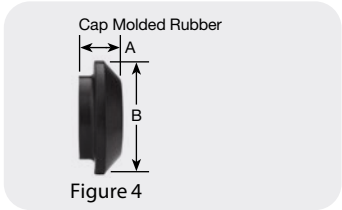


Figure 4

Dimensions (Cap)

Body Size	Fig.	Dimensions				Part/Order Number
		A		B		Cap (Buna-N)
		(mm)	(in)	(mm)	(in)	
3/8	5	18.4	0.726	31.8	1.25	FD14-1210-06

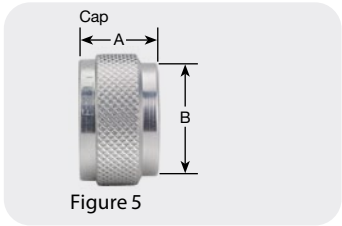


Figure 5

Swivel Joint

Body Size	Fig.	Thread Size	Cap	Part/Order Number (Buna-N)
3/8	6	3/4-14	Dryseal NPTF	FD14-1004-12-12

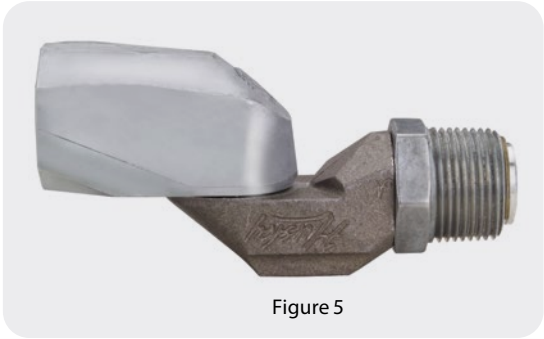
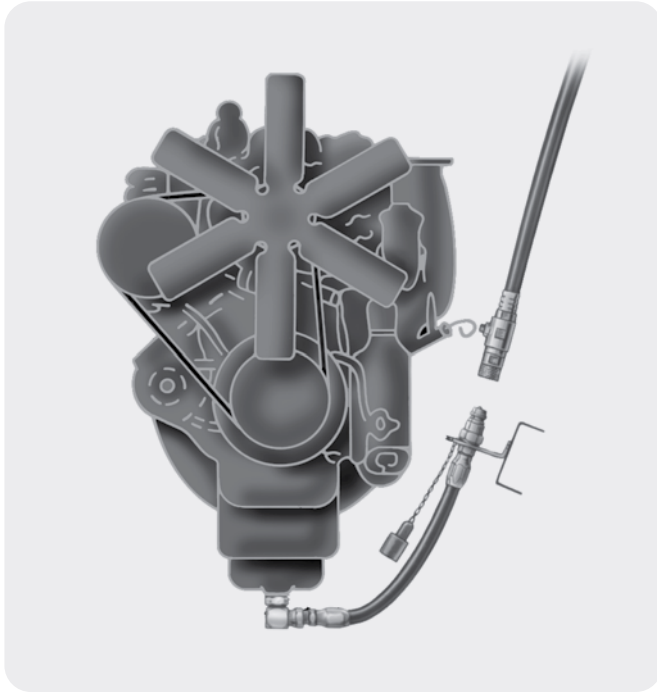


Figure 5

Access Methods

Remote Access

The FLOCS Remote Access Conversion Kit replaces the old drain plug with a 90 degree pan adapter, hose assembly and quick-disconnect coupling.



Installation:

1. Remove old drain plug.
2. Replace with the proper size FF1187 pan adapter.
3. Install mounting bracket (and optional 90° adapter).
4. Attach hose assembly to FF1187 pan adapter and mounting bracket.
5. Attach coupling and dust cap.

Your installation is now complete.

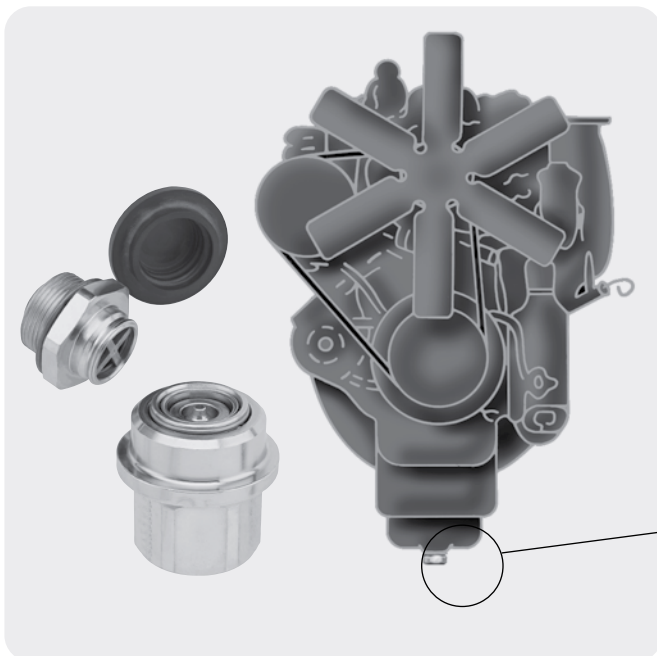
Evacuation:

When it is time to change the oil:

1. Remove the dust cap.
2. Connect the evacuation hose to the quickdisconnect coupling.
3. Activate the pump, and the used oil is quickly evacuated to storage tanks.
4. Disconnect the evacuation hose and replace the dust cap.

Direct Access

The FLOCS Direct Access Conversion Kit uses the Danfoss-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.



Installation:

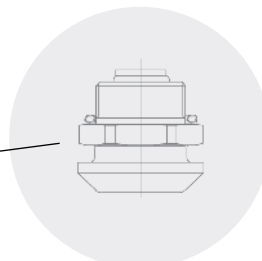
1. Remove old drain plug.
2. Replace with the proper size FD14 Drain Coupling.
3. Install protective cap..

Your installation is now complete.

Evacuation:

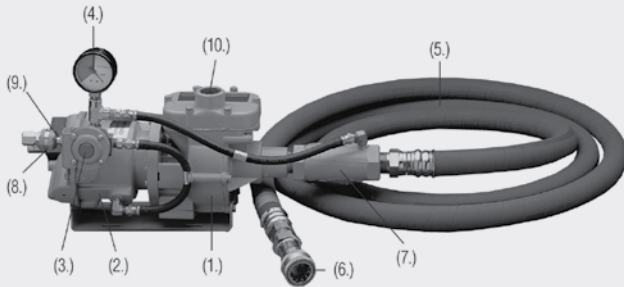
When it is time to change the oil:

1. Remove the protective cap.
2. Connect the evacuation hose to the FD14 Drain Coupling.
3. Activate the pump, and the used oil is quickly evacuated to storage tanks.
4. Disconnect the evacuation hose and replace the protective cap.



Evacuation Systems

FLOCS 30A – Air-powered Unit



- | | |
|--|-----------------------------|
| 1. Piston pump | 6. Coupling half** |
| 2. 5 cfm air-operated motor (80-150 psi) | 7. Suction strainer |
| 3. Override button | 8. 1/4" air-supply coupling |
| 4. Cycle gauge | 9. 1/4" air-supply nipple |
| 5. 15' of 1" I.D. suction hose* | 10. 1" NPT discharge port |

(Part No. FF9330A-01) Remote Access (Part No. FF9330A-19) Direct Access

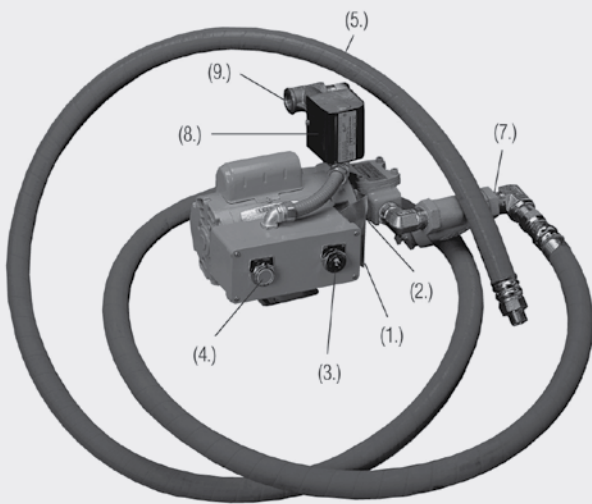
The FLOCS 30A Oil-evacuation Unit is a versatile, air-powered unit designed to be used where an air-power source is available, and electrical units may present a fire hazard. The unit can be adapted for use either on a lube truck or in a maintenance bay.

A FLOCS 30A unit can be used with equal effectiveness on vehicles with small oil-pan capacities (taxicabs, delivery trucks, school buses, etc.), medium capacities (highway equipment, tree-harvesting equipment, etc.) or large capacities (mining or construction equipment, etc.). Speed, ease of operation and versatility make the FLOCS 30A the best rapid oil-evacuation unit for many applications.

* FLOCS 30A Oil-evacuation Unit with 25' hose assembly is ordered by part number FF9330A-100 (Remote Access), FF9330A-20 (Direct Access).

** Differs with access method.

FLOCS 15 – Electric-powered Unit



- | | |
|--|--|
| 1. 3/4" hp electric motor, 115V AC, 20 amp | 6. Coupling half** |
| 2. Gear pump | 7. Suction strainer |
| 3. Cycle-run starter button | 8. 115V AC flow-control switch |
| 4. Cycle-run signal light | 9. Backflow check valve with a 3/4" NPT discharge port |
| 5. 15' of 1" I.D. suction hose* | |

(Part NO. FF9315-01) Remote Access (Part No. FF9315-28) Direct Access

The FLOCS 15 Oil-evacuation Unit is electric powered and is designed for use in fleet maintenance service bays. Used in conjunction with overhead oil-dispensing reels, the FLOCS 15 speeds oil changes in large fleets. In some multilane maintenance shops, the FLOCS 15 concept has been used to implement a "fast-lane" operation, with one lane set aside for high-frequency, routine maintenance functions, leaving the other lanes free for more complex and time-consuming operations.

The FLOCS 15 is compatible with existing oil service equipment and can be installed quickly, without interrupting normal maintenance operations. It discharges old oil into existing storage tanks and shuts off automatically when the old oil has been evacuated. A signal light goes off when the evacuation is complete.

* FLOCS 15 Oil-evacuation Unit with 30' hose assembly is ordered by part number FF9516-01 (Remote Access), FF9516-02 (Direct Access).

** Differs with access method.

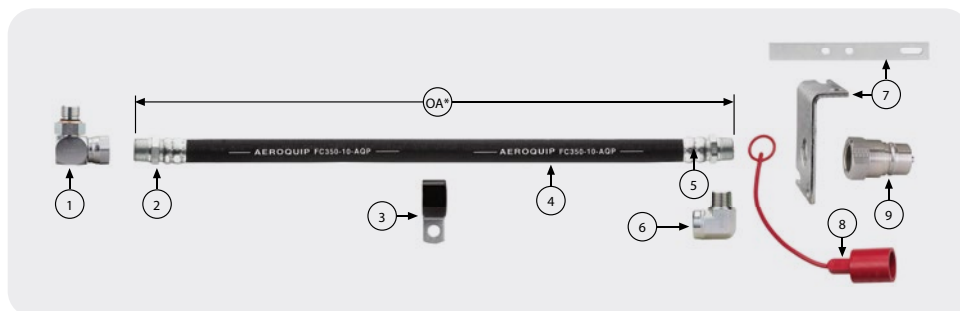
Remote Access (Aeroquip) Conversion Kits

Standard Vehicles

All kits are designed to accommodate manual drain when necessary.

These components are common to each kit regardless of the part number.

Item #	Part/Order #	Description
Item # 2	4412-8-10S	Hose Fitting (Reusable)
Item # 2	FJ3152-0810S	Hose Fitting (Crimp)
Item # 3	900729-6	Hose Clamp
Item # 4	FC350-10	Hose
Item # 5	4412-12-10S	Hose Fitting
Item # 5	FJ3152-1210S	Crimp
Item # 6	2089-12-12S	Connection At Mounting Flange
Item # 7	FF9363-01S	Bracket
Item # 8	5657-12	Dust Cap
Item # 9	5602-12-12S	Coupling Half



Kit Numbers are selected by matching the drain port thread size with the oil pan adapter of the same thread.

Thread Size	#1 Oil Pan Adapter & Gasket	Hardware Kit (Includes Items 1, 3, 6, 7, 8, & 9)	Assembled Kit* (Includes Items 1 through 9)
1/2 - 20	FF1187-0801S	FF428	FF400-OA
m 18 x 1.5	FF1187-0802S	FF429	FF401-OA
m 14 x 1.25	FF1187-0803S	FF430	FF402-OA
m 10 x 1	FF1187-0804S	FF431	FF403-OA
1 1/4 - 18	FF1187-0805S	FF432	FF404-OA
1 - 18	FF1187-0806S	FF433	FF405-OA
7/8 - 18	FF1187-0807S	FF434	FF406-OA
3/8 - 18	FF1187-0808S	FF435	FF407-OA
3/4 - 16	FF1187-0809S	FF436	FF408-OA
7/8 - 14	FF1187-08010S	FF437	FF409-OA
9/16 - 18UNF - 2A	FF1187-08012S	FF11042	FF11041-OA
1 1/8 - 12UNF - 2A	FF1187-08014S	FF11301	FF10452-OA
1 1/8 - 12UNF - 2A	**FF1187-08015S	FF11303	FF11302-OA
m 20 x 1.5	FF1187-0816S	FF11499	FF11498-OA
m 25 x 1.5	FF1187-0817S	FF11826	FF11825-OA
3/8 - 18 NPT (Pipe)	2047-8-6S	FF439	FF411-OA
1/2 - 14 NPT (Pipe)	2047-8-8S	FF440	FF412-OA
3/4 - 14 NPT (Pipe)	2047-8-12S	FF441	FF413-OA

* OA indicates overall length of hose assembly in inches. (Available to Aeroquip only.)

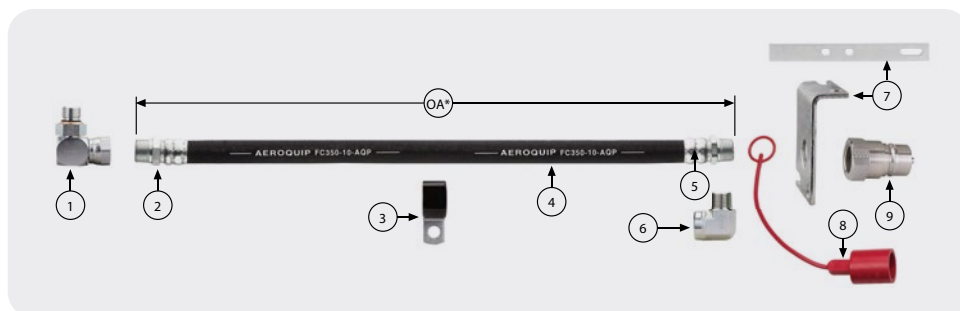
** Long Drop Version for oil pans covered by sound attenuation shields.

Large-capacity Vehicle Kit

All kits are designed to accommodate manual drain when necessary.

These components are common to each kit regardless of the part number.

Item #	Part/Order #	Description
Item # 2	4412-8-12S FJ3152-0812S	(Reusable) (Crimp)
Item # 3	900729-8	Hose Clamp
Item # 4	FC350-10	Hose
Item # 5	4412-12-12S	Hose Fitting
Item # 5	FJ3152-1212S	(Crimp)
Item # 6	2089-12-12S	Connection At Mounting Flange
Item # 7	FF9363-01S/ FF9270-01S	Bracket
Item # 8	5657-12	Dust Cap
Item # 9	5602-12-12S	Coupling Half



Kit Part Numbers are selected by choosing the appropriate drain port thread size.

Items Thread Size	#1 Oil Pan Adapter & Gasket	#2 Hose Fitting	Hardware Kit (Includes Items 1, 3, 6, 7, 8, & 9)	Assembled Kit* (Includes Items 1 through 9)
3/4 - 14 NPT (Pipe)	2047-8-12S	4412-8-12S	FF943	FF293-OA
3/8 - 18 NPT (Pipe)	2047-8-6S	4412-8-12S	FF945	FF322-OA
7/8 - 18	FF1187-0807S	4412-8-12S	FF944	FF317-OA
7/8 - 14	FF1187-0810S	4412-8-12S	FF946	FF380-OA
1 - 18	FF1187-0806S	4412-8-12S	FF947	FF395-OA
1 - 11 1/2 NPT (Pipe)	2024-16-12S	4411-8-12S	FF948	FF833-OA
1/2 - 14 NPT (Pipe)	2024-8-12S	4411-8-12S	FF949	FF834-OA

* OA indicates overall length of hose assembly in inches. (Available to Aeroquip only.)

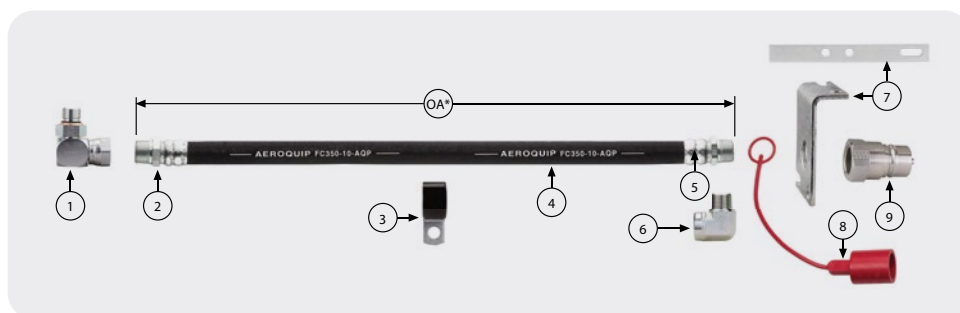
Remote Access (Weatherhead) Conversion Kits

Standard Vehicles

All kits are designed to accommodate manual drain when necessary.

These components are common to each kit regardless of the part number.

Item #	Part/Order #	Description
Item # 2	0A10E-108	Hose Fitting
Item # 3	900729-6	Hose Clamp
Item # 4	H56910	Hose
Item # 5	069	Hose Fitting Adapter for 90
Item # 6	2089-12-12S	Connection At Mounting Flange
Item # 7	FF9363-01S	Bracket
Item # 8	5657-12	Dust Cap
Item # 9	5602-12-12S	Coupling Half



Kit Numbers are selected by matching the drain port thread size with the oil pan adapter of the same thread.

Thread Size	#1 Oil Pan Adapter & Gasket	Hardware Kit (Includes Items 1, 3, 6, 7, 8, & 9)
1/2 - 20	FF1187-0801S	FF428
m 18 x 1.5	FF1187-0802S	FF429
m 14 x 1.25	FF1187-0803S	FF430
m 10 x 1	FF1187-0804S	FF431
1 1/4 - 18	FF1187-0805S	FF432
1 - 18	FF1187-0806S	FF433
7/8 - 18	FF1187-0807S	FF434
5/8 - 18	FF1187-0808S	FF435
3/4 - 16	FF1187-0809S	FF436
7/8 - 14	FF1187-08010S	FF437
9/16 - 18UNF - 2A	FF1187-08012S	FF11042
1 1/8 - 12UNF - 2A	FF1187-08014S	FF11301
1 1/8 - 12UNF - 2A	**FF1187-08015S	FF11303
m 20 x 1.5	FF1187-0816S	FF11499
m 25 x 1.5	FF1187-0817S	FF11826
3/8 - 18 NPT (Pipe)	2047-8-6S	FF439
1/2 - 14 NPT (Pipe)	2047-8-8S	FF440
3/4 - 14 NPT (Pipe)	2047-8-12S	FF441

* OA indicates overall length of hose assembly in inches. (Available to Aeroquip only.)

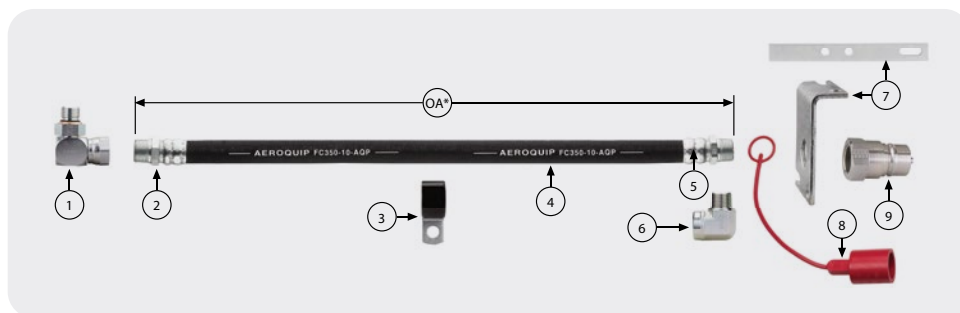
** Long Drop Version for oil pans covered by sound attenuation shields.

Large-capacity Vehicle Kit

All kits are designed to accommodate manual drain when necessary.

These components are common to each kit regardless of the part number.

Item #	Part/Order #	Description
Item # 2	069	Hose Clamp
Item # 3	900729-8	Hose
Item # 4	H56912	Hose
Item # 5	069	Hose Fitting
Item # 6	2089-12-12S	Connection At Mounting Flange
Item # 7	FF9363-01S/ FF9270-01S	Bracket
Item # 8	5657-12	Dust Cap
Item # 9	5602-12-12S	Coupling Half



Kit Part Numbers are selected by choosing the appropriate drain port thread size.

Thread Size	#1 Oil Pan Adapter & Gasket	Assembled Kit* (Includes Items 1 through 9)
3/4 - 14 NPT (Pipe)	2047-8-12S	FF943
3/8 - 18 NPT (Pipe)	2047-8-6S	FF945
7/8 - 18	FF1187-0807S	FF944
7/8 - 14	FF1187-0810S	FF946
1 - 18	FF1187-0806S	FF947
1 - 11 1/2 NPT (Pipe)	2047-8-16S	FF948
1/2 - 14 NPT (Pipe)	2047-8-8S	FF949

Oil Thief System



Providing easy access to oil samples for spectrographic analysis

With the spectrographic analysis of engine oil being increasingly required, the problem of obtaining oil samples quickly, economically and efficiently has demanded more attention.

With the push of a button, an oil sample can be taken during the evacuation cycle of any FLOCS unit and collected in a standard sampling bottle for analysis. It takes less than 15 seconds to collect an oil sample with the Oil Thief.

Because oil-analysis facilities provide differing oil sample bottles, the FLOCS Oil Thief is available with a sample bottle port thread to match your needs. (Refer to the sample bottle thread sizes and corresponding Oil Thief part numbers listed in this chart.)

Features:

- Push-button operation
- Light weight
- Repairable seals
- Accepts a wide variety of sample bottle threads

Benefits:

- No-mess oil sample
- Economical – one Oil Thief per maintenance bay evacuation pump
- Allows oil sampling while oil is still hot, without employee hazard

Physical Characteristics:

Buna-N Seals for -40 to +225 Degrees Fahrenheit Service.
Vacuum Capable to 28" Hg..

In a typical FLOCS system, a Male NPTF-to-Male NPTF adapter (2083-12-12s) is used on one end of the Oil Thief to connect to the female quick-disconnect coupling.

Operating Instructions:

The Oil Thief is compatible with any FLOCS evacuation unit. Simply install an Oil Thief between the evacuation hose line and the coupling half; then attach a sample bottle. Wait a few seconds after starting the evacuation cycle (to flush away any oil from the last evacuation); then depress the sample collection button for approximately ten seconds. Release the button and remove the sample bottle. Clean the Oil Thief sample bottle port, attach another bottle and you are ready for the next sample.

Note: When not in use, the Oil Thief should have a spare sample bottle attached to maintain valve cleanliness.

Oil Thief Part/Order Number	Sample Bottle Thread Size (In Inches)
FF9300-75-0001	1.480-6 (or 38mm)
FF9300-75-0002	2.070-6
FF9300-75-0003*	1.580-6
FF9300-75-0004*	1.750-6 (or 45mm)

*Available by special order.

Remote Access Conversion Kit Installation

1. Selecting the Conversion Kit

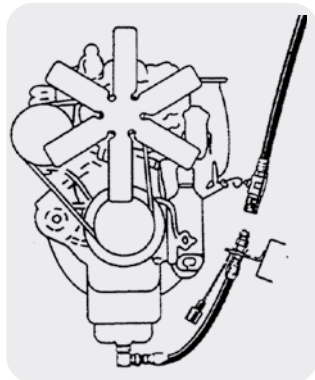
Remove the oil pan drain plug and drain engine oil. Measure the thread on the pan plug with a thread gauge. The thread size will determine the specific conversion kit to be used. Kits are available in two styles: 1) assembly kits (contain mounting hardware and hose assembly), and 2) oil pan drain fitting and coupling with mounting bracket (installer must finish hose assembly). Hose length in inches ("L") is added to the basic part number when ordering assembled kits.

2. Installation

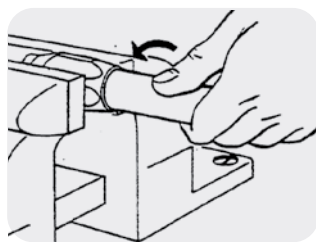
Determine the length of hose required for your vehicle. If the hose length is not known, mount the quick disconnect coupling and bracket and route the hose from the coupling bracket to the oil pan drain. Refer to step 5 for proper routing, mark and cut the hose to length. Following step 3 install the hose fittings to complete the hose assembly. Install the oil pan drain fitting (per step 6) and the hose assembly.

Thread Size	#1 Oil Pan Adapter & Gasket	Hardware Kit (Includes Items 1, 3, 6, 7, 8, & 9)
1/2 - 20	FF1187-0801S	FF428
m 18 x 1.5	FF1187-0802S	FF429
m 14 x 1.25	FF1187-0803S	FF430
m 10 x 1	FF1187-0804S	FF431
1 1/4 - 18	FF1187-0805S	FF432
1 - 18	FF1187-0806S	FF433
7/8 - 18	FF1187-0807S	FF434
3/8 - 18	FF1187-0808S	FF435
3/4 - 16	FF1187-0809S	FF436
7/8 - 14	FF1187-08010S	FF437
9/16 - 18UNF - 2A	FF1187-08012S	FF11042
1 1/8 - 12UNF - 2A	FF1187-08014S	FF11301
1 1/8 - 12UNF - 2A	**FF1187-08015S	FF11303
m 20 x 1.5	FF1187-0816S	FF11499
m 25 x 1.5	FF1187-0817S	FF11826
3/8 - 18 NPT (Pipe)	2047-8-6S	FF439
1/2 - 14 NPT (Pipe)	2047-8-8S	FF440
3/4 - 14 NPT (Pipe)	2047-8-12S	FF441

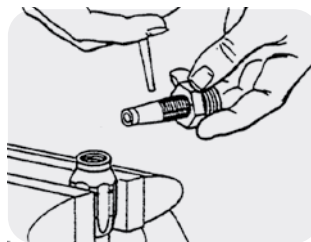
3. Assembling the Hose Line



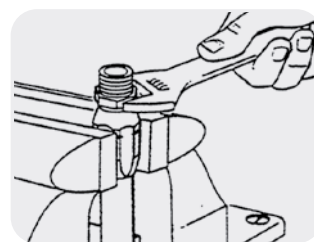
A. Put the socket in vise and screw hose into socket counterclockwise until it bottoms. Back off 1/4 turn.



B. Oil nipple threads and inside of hose liberally. Use heavy lube oil.



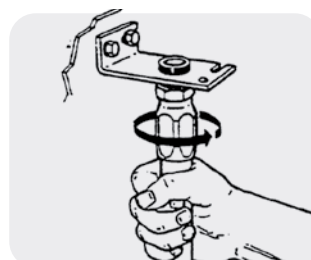
C. Screw nipple clockwise into socket and hose. Keep hose from turning while assembling nipple. Leave 1/32" to 1/16" clearance between nipple hex and socket.



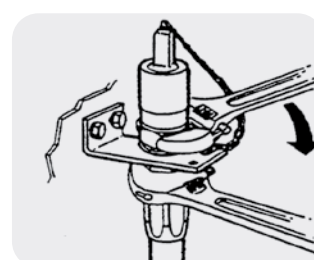
4. Mounting the Coupling

Note: The coupling bracket should be mounted so that the coupling valve is located above the oil level in the crank case. Make sure that the coupling is mounted firmly and located so that it will not be damaged during normal operation of the vehicle.

A. Attach mounting bracket to desired location on vehicle, preferably near the dipstick. Screw assembled fitting into bracket until enough thread is exposed on opposite side to assemble and tighten the quick disconnect coupling.



B. Assemble dust cap and coupling to mounted hose fitting. Use pipe thread sealant. Check for any leakage after kit is installed.

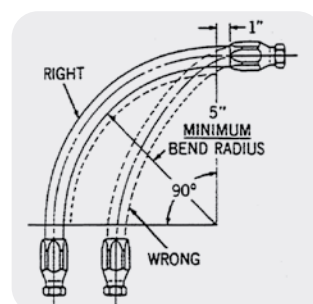
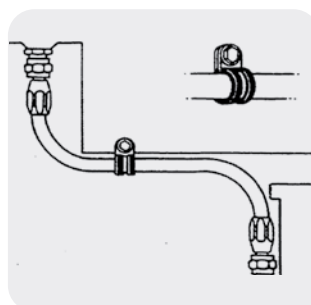
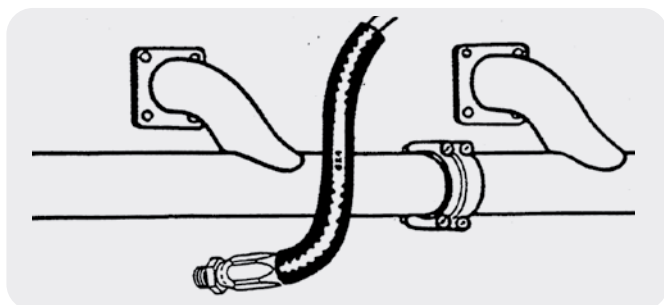


5. Routing the Hose

A. Avoid heat. If the hose must be routed past the manifold or exhaust pipe, use Firesleeve for heat protection.

B. Avoid sharp or abrasive edges. Use Danfoss protective coil/sleeve if hose might be cut or chafed or use support clamp provided to avoid abrasion.

C. Avoid kinking. Tight bends may kink hose. Observe bend radius limitations.

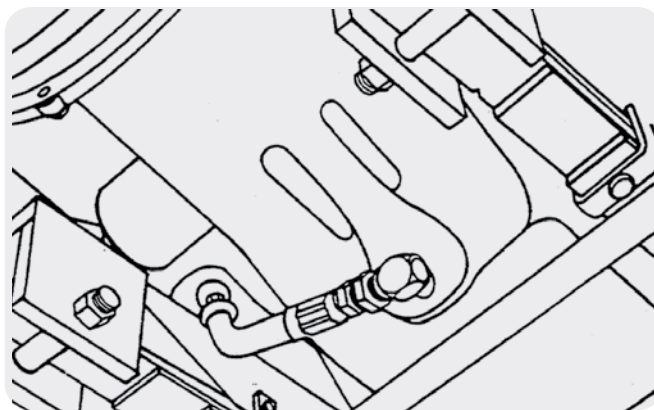
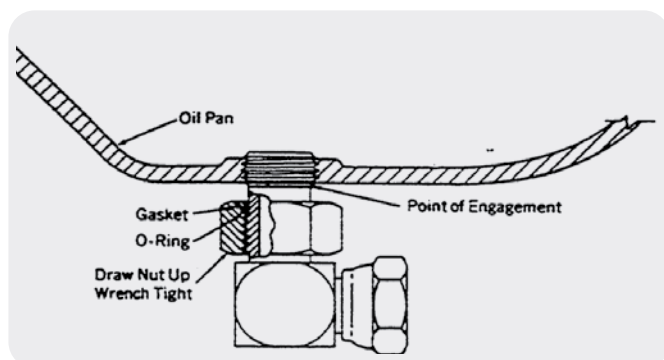


6. Installing the Oil Pan Drain Fitting

Lubricate the O-ring seal on the Oil Pan Drain Fitting. Screw the fitting into the oil pan until the last thread on the upper set of threads is engaged.

Position the elbow and tighten the jam nut (two wrenches needed). Screw the hose fitting into the elbow and tighten all connections.

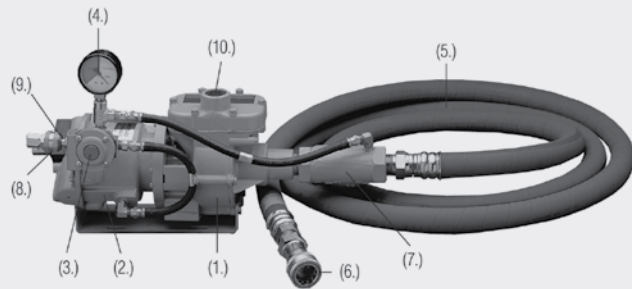
Oil may be manually drained by disconnecting the hose fitting from the oil pan adapter.



Air Units

Operation and Service Info

FLOCS 30A – Air-powered Unit



- | | |
|--|-----------------------------|
| 1. Piston pump | 6. Coupling half** |
| 2. 5 cfm air-operated motor (80-150 psi) | 7. Suction strainer |
| 3. Override button | 8. 1/4" air-supply coupling |
| 4. Cycle gauge | 9. 1/4" air-supply nipple |
| 5. 15' of 1" I.D. suction hose* | 10. 1" NPT discharge port |

Specifications:

- Maximum discharge pressure: 1/5 of the input air pressure (power source).
- Recommended operating temperature of fluid: +60°F. to 180°F.
- Strainer screen size: size 35 mesh.
- Flow rate: see flow chart.
- Pump power source: 80 to 150 psi air at 5 CFM minimum.
- Fluid handling compatibility: all petroleum base fluids below 6000 SSU
- Minimum discharge line: size 1" I.D. (-16).
- Mounting requirements: see Fig. 3. page 3.

Installation Instructions

Mount the unit for easy accessibility to the vehicles to be serviced. It may be mounted in either a horizontal or vertical position. A mounting bracket is provided for rigid mounting of the pump (reference Figure 3 for detail dimensions). The pump motor operates on 80-150 psi air at 5 CFM minimum. The unit is to be mounted so that the cycle gauge is in full view of the operator and the override button and strainer cleanout are readily accessible.

- Connect the used oil discharge line to the 1" pipe port at the top of the unit. The discharge line must be no higher than 10 feet above FLOCS unit. It is important to keep the discharge line large to maintain maximum efficiency.

Use a 1" I.D. pipe for lines 15' to 30' long and a 1 1/4" I.D. pipe for lines 30' to 100' long. Make sure the discharge line does not develop more head pressure than 1/5 of the air pressure source. (Example: air power source of 150 psi, discharge head pressure of 30 psi maximum.)

Operation

The FLOCS 30A unit is a simple self-controlled automatic oil evacuator. Once it has been started it will operate until all the oil has been evacuated from the oil pan. The unit will stop automatically when air enters the suction hose.

This unit is controlled by a normally closed, air supply shut-off valve, which requires the pump vacuum to hold it open. At the end of the evacuation cycle air in the suction line destroys the vacuum causing the control valve to shut off the air pressure supply and stop the pump. The unit also incorporates a strainer to

prevent large particles from damaging the pump.

To operate:

- Attach the FLOCS 30A unit quick disconnect coupling to the mating conversion kit coupling half on the equipment.
- Press the red override button to start the unit; hold for approximately 5 seconds. Cycle gauge will indicate run condition.
- The unit will shut off automatically when all oil is evacuated. The cycle gauge will indicate when the unit is off. Disconnect the evacuation line.

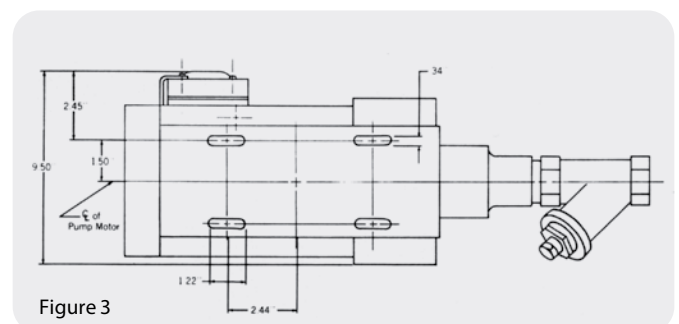


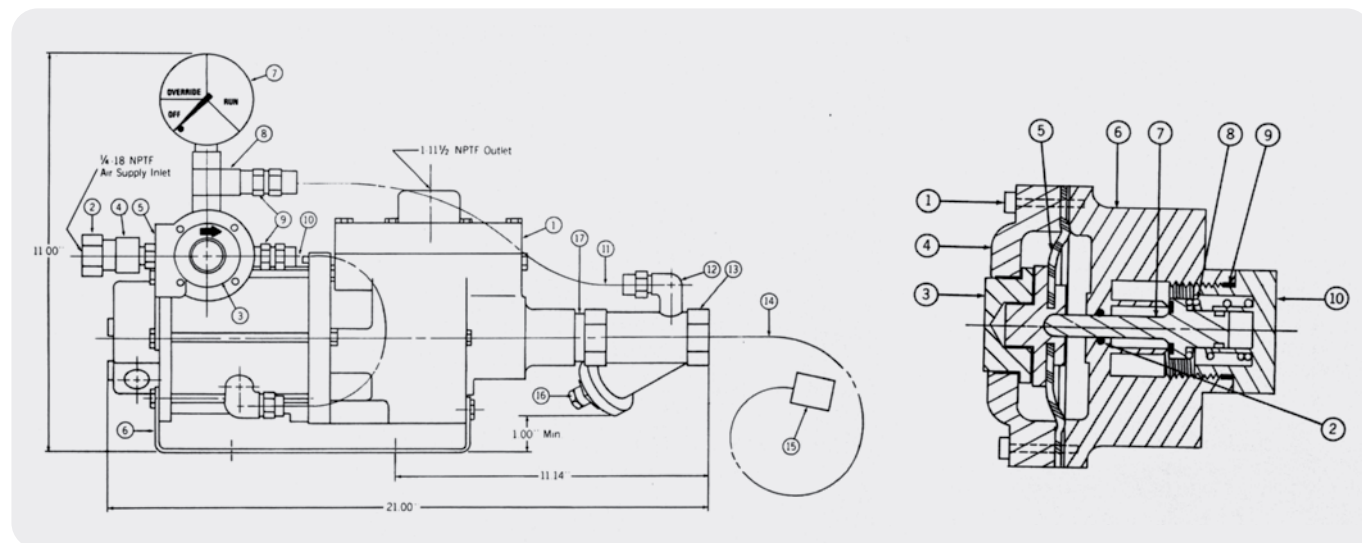
Figure 3

- Connect the air supply line into the 1/4" NPTF port of the quick disconnect coupling supplied with the unit. The air supply line should be equipped with an air line water filter to prevent water from contaminating the pump control and/or causing

freezing-up. A lubricator is also recommended for the air supply line (use non-detergent oil in the lubricator).

FLOCS 30A

Parts List and Assembly Drawing



Item No.	Quantity Required	Description	Part/Order No.	Basic Material
1	1	Pump	FF9330A-02	Cast Aluminum
2	1	Coupling Half	FD40-1000-04-04	Steel
3	1	Shut-off Valve	FF9330A-03	Aluminum
4	1	Coupling Body	FD40-1014-04-04	Steel
5	1	Bracket	FF9330A-14	Steel
6	1	Bracket	FF9330A-13	Steel
7	1	Cycle Gauge	FF9330A-11	Steel
8	1	Service Tee	2092-4-4S	Steel
9	1	Adapter	2021-4-4B	Brass
10	2	Hose Assembly	255603-4B-8	Brass Fittings
11	1	Hose Assembly	255603-4B-13	Brass Fittings
12	2	Adapter	2024-4-4B	Brass
13	1	Strainer	FF9330A-12	Steel
14	1	Hose Assembly	FA1552KMM1800	Steel Fittings
15	1	Coupling Half	5501-12-12S	Steel
16	1	Pipe Plug	2082-12S	Steel
17	1	Adapter	2084-16S-11/2	Steel

Shut-Off Valve Parts List				
Item No.	Quantity Required	Description	Part/Order No.	Basic Material
1	4	Screw	FF9144-0110-12	Steel
2	1	O-ring	22550-008	Buna-N
3	1	Button	FF9330A-09	Aluminum
4	1	Cover	FF9330A-10	Aluminum
5	1	Diaphragm	FF9330A-08	Steel and Rubber
6	1	Valve Body	FF9330A-04	Cast Aluminum
7	1	Valve	FF9330A-05	Brass & Rubber
8	1	Spring	FF9330A-06	Spring Steel
9	1	O-ring	22550-018	Buna-N
10	1	Cap	FF9330A-07	Plastic

FLOCS 30A

Parts List and Assembly Drawing

Servicing Components

Instructions for Rebuilding Shut-Off valve (P/N FF9330A-03)

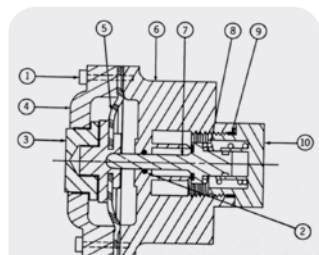


Figure 2

1. Remove the four cover screws, item #1; remove button, item #3; remove and replace diaphragm if necessary, item #5. For assembling, torque cover screws 25-30 in.-lbs.

2. Remove plastic cap, item #10; spring, item #8, and valve, item #7. Replace the O-ring seal, item #9, on the cap. Check the bonded seal on the valve, item #7; inspect for foreign particles or burrs and replace if necessary.

3. Replace O-ring seal, item #2, with a 22559-00B O-ring. Care must be taken not to scar the seal area upon removal of the O-ring.

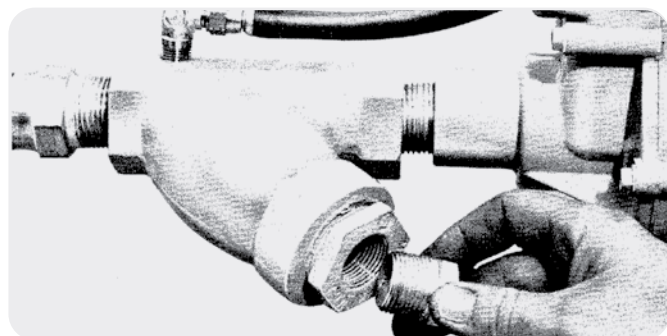
4. Lubricate all seals with petroleum jelly prior to installation. Make sure all metal parts are clean and not damaged.

5. Assemble in reverse order.

Note: A complete shut-off valve is available as an assembly for replacement.

Order by Part Number FF9330A-03.

Servicing the Strainer



The strainer should be serviced daily under normal fleet operation conditions. If the strainer becomes clogged or partially blocked with residue, the evacuation operation will slow down due to lack of oil flow to the pump.

1. Remove the strainer clean-out plug and screen.

2. Wash the plug and screen with clean fuel oil.

3. Replace the plug and screen. Tighten wrench-tight.

4. Be careful not to crack the castings or pipe bushings when reassembling the plug. Cracked and/or leaking castings will result in insufficient pumping.

Troubleshooting Components

Problem

Unit will not run when override button is pushed.

Correction

(A) Check the air supply line to see if it is connected and the air is turned on.

Problem

Unit will not continue running after the button is released.

Correction

(A) Button was not in override long enough; hold override button until cycle gauge indicates run.

(B) Check for vacuum leakage at strainer suction line, vehicle kit and/or hose fittings on control regulator.

(C) Check air pressure and CFM to make sure that the minimum 80 psi and 5 CFM are available to pump.

(D) Check the strainer for contamination.

(E) Check regulator for damaged seals or diaphragm. Reference Figure 5, page 6 for servicing.

(F) Check oil dipstick; oil pan may be empty.

Problem

Cycle gauge will not indicate the mode the pump is in.

Correction

(A) Check gauge to see if indicator hand is loose.

(B) Check for any leaks in thread and hose fitting connections.

Problem

Unit shuts off before all oil is evacuated.

Correction

(A) Check all threaded connections in suction line for vacuum leakage. Mount vacuum gauge in mating coupling half. Plug into end of suction line. Run pump to get a vacuum. Watch gauge. A sudden loss of vacuum indicates a suction leak.

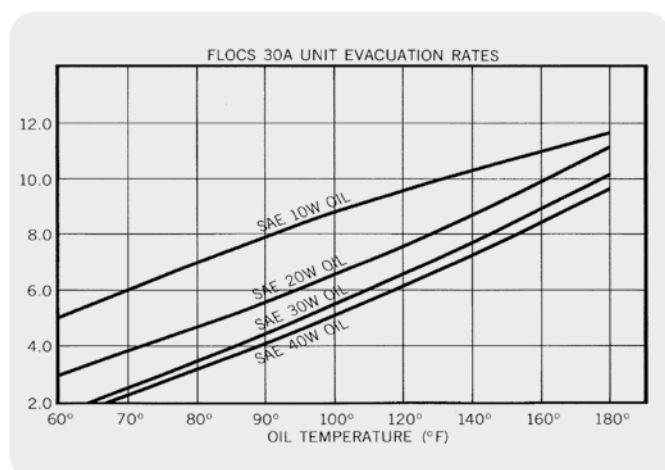
Problem

Unit will not shut off after all the oil has been evacuated.

Correction

(A) Check for plugged coupling at vehicle kit.

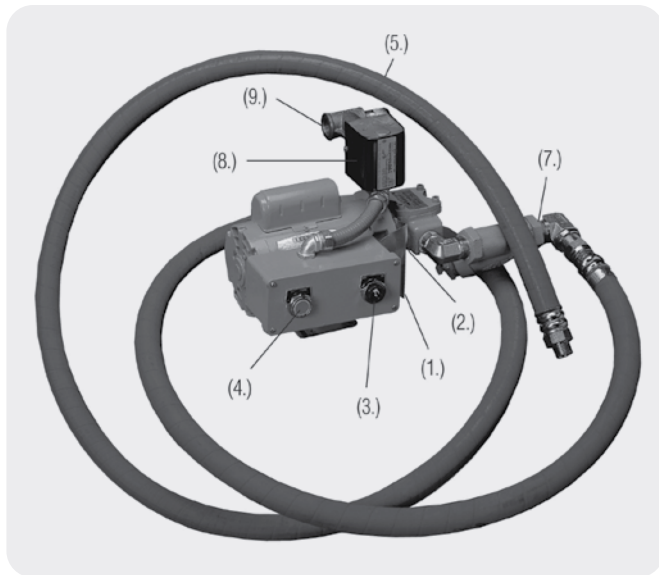
(B) Check regulator for damaged seals or diaphragm. Reference Figure 5, page 6 for servicing.



Electric Units

Operation and Service Info

FLOCS 15 – Electric-powered Unit



1. 3/4 hp electric motor, 115V AC, 20 amp
2. Gear pump
3. Cycle-run starter button
4. Cycle-run signal light
5. 15' of 1" I.D. suction hose*
6. Coupling half**
7. Suction strainer
8. 115V AC flow-control switch
9. Backflow check valve with a 3/4" NPT discharge port

The FLOCS 15 is a simple, almost totally automatic machine.

To operate:

1. Attach the suction line coupling half to the FLOCS coupling half on the vehicle. To connect the coupling, retract the knurled sleeve, push the coupling halves together and release the sleeve.
2. Press the cycle start button to start the unit. The cycle run light will come on.
3. The unit will shut off automatically when all oil is evacuated. The signal light will shut off. Disconnect the evacuation line.

Specifications:

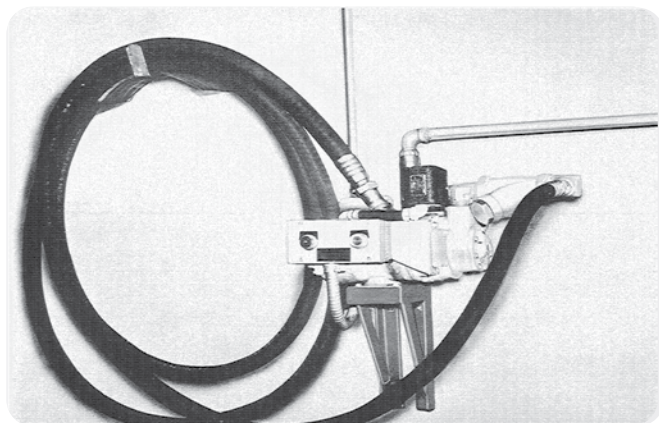
- Maximum discharge pressure-50 psi
- Maximum fluid lift-10ft
- Operating temperature (of fluid) +20°F. to +180°F.
- Strainer screen size-35 mesh
- Flow rate-see flow chart on back cover
- Motor electrical rating-115V, 60CY., 20 APM AC
- Fluid handling compatibility-all petroleum base fluids below 6000 SSU
- Minimum discharge line 3/4" I.D.
- Mounting requirements-per NEMA 56 C Frame

Installation Instructions

Mount the unit for easy accessibility to vehicles to be serviced. The pump motor operates on 115V AC 20 AMP. To install unit:

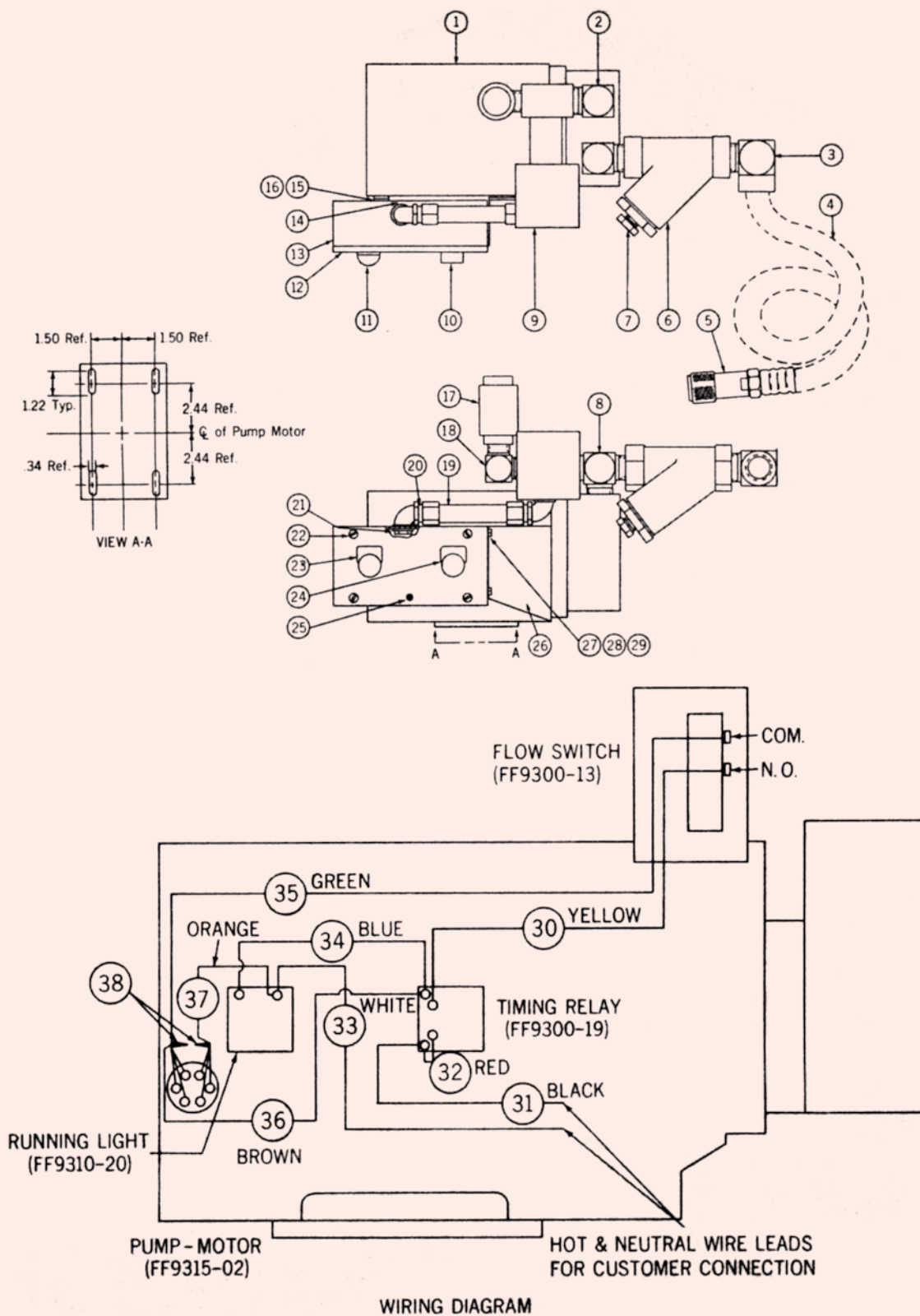
1. Remove cover plate from the control panel.
2. Drill an access hole on the side or the bottom of the control box (3/4" hole recommended for conduit). Run service wiring through access hole.
3. Connect a service grounding wire to one of the two bracket bolts on the side of the control box.
4. Connect the live wire to the 6" black lead.
5. Connect the neutral wire to the 6" white lead.
6. Tighten conduit or cord connector in 3/4" access hole.
7. Replace control panel and tighten in place.
8. Connect the old oil discharge line to the 3/4" NPT port on the check valve. NOTE: the check valve can be swung up or down for more direct routing.
9. Install the 15' evacuation line by screwing the swivel hose fitting into the female NPT thread on the strainer adapter (a 90° adapter is available to suit installation). Caution: Do not over tighten pipe threads into strainer. The use of pipe sealant is recommended.
10. The timing relay (in the control box) is factory set for 25 seconds. The purpose of the timing relay is to keep the pump engaged until the initial flow of oil reaches the pump from the vehicle. For instructions on adjustment of the timing relay, see page 6.

Note: The unit should not be mounted more than 10 ft. above floor level to allow no more than 10 ft. of evacuation height. The discharge line should be plumbed so as not to cause more than 50 psi head pressure.



FLOCS 15

Parts List and Assembly Drawing



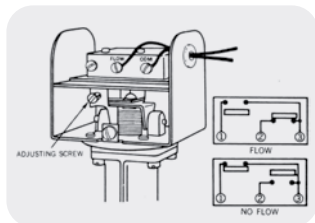
FLOCS 30A

Parts List and Assembly Drawing

Item Number	Quality Required	Description	Part/Order Number	Basic Material
1	1	Pump Motor	FF9315-02	Steel
2	1	Adapter	2085-16-12S	Steel
3	1	Adapter	2089-16-16S	Steel
4	1	Hose Assembly	FA1552KMM1800	Steel
5	1	Coupling Half	5601-12-12S	Steel
6	1	Strainer	FF9315-03	Steel
7	1	Pipe Plug	2082-12S	Steel
8	1	Adapter	2085-16-16S	Steel
9	1	Flow Switch	FF9300-13	Steel
10	1	Timing Relay	FF9300-19	Steel
11	1	Running Light	FF9310-20	Steel
12	1	Cover	FF9315-20	Steel
13	1	Control Box	FF9315-05	Steel
14	1	Decal	FF9315-10	-
15	1	Conduit Nipple	FF9315-18	Steel
16	2	Lock Nut	FF9315-19	Steel
17	1	Check Valve	FF9315-24	Brass
18	1	Adapter	2085-12-12S	Steel
19	1	Conduit	FF9315-23	Steel & PVC
20	2	90° Angle Connector	FF9315-22	Steel
21	3	Reducing Washer	FF9315-21	Steel
22	4	Screw	210002-1-8-7S	Steel
23	1	Legend Plate	FF9315-07	Steel
24	1	Legend Plate	FF9315-06	Steel
25	1	Decal	FF9315-09	-
26	1	Bracket	FF9315-08	Steel
27	2	Bolt	FF9309-0110-04S	Steel
28	2	Lock Washer	210104-1-10S	Steel
29	2	Nut	FF9236-0110S	Steel
30	1	Wire Assembly	FF9315-11	Copper & Vinyl
31	1	Wire Assembly	FF9315-17	Copper & Vinyl
32	1	Wire Assembly	FF9300-30	Copper & Vinyl
33	1	Wire Assembly	FF9315-16	Copper & Vinyl
34	1	Wire Assembly	FF9315-13	Copper & Vinyl
35	1	Wire Assembly	FF9315-12	Copper & Vinyl
36	1	Wire Assembly	FF9315-25	Copper & Vinyl
37	1	Wire Assembly	FF9315-15	Copper & Vinyl
38	2	Wire Connector	FF9310-38	Steel & Plastic

Servicing Components

Servicing Components



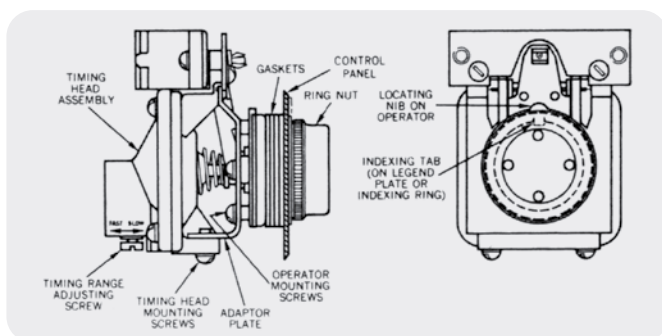
Instructions on adjustments of the flow switch:

1. Remove the black switch cover by loosening the two screws on the side and pull off the cover.

2. If a small amount of oil remains in the crankcase after the pump shuts off, the adjusting screw should be turned counterclockwise to decrease the sensitivity of the switch. DO NOT remove the screw completely or back it out so far as to cause interference with the replacement of the cover.

3. If the pump stays on when no oil is flowing, the adjusting screw should be turned clockwise until the pump shuts off.

Instructions on adjustment of the time delay-relay switch:



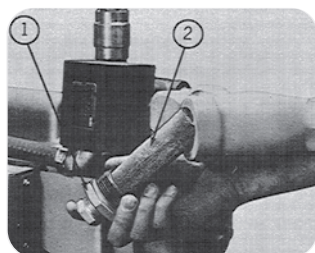
1. The timing relay is factory pre-set for a normal time delay on most applications (approximately 25 seconds).

2. To increase the time setting, turn the adjusting screw clockwise.

3. To decrease the time setting, turn the adjusting screw counterclockwise. A fraction of a turn will add or subtract 10-15 seconds of time.

Servicing Components

Servicing the Strainer:



The strainer should be serviced daily under normal operating conditions. If the strainer becomes clogged or partially blocked with engine residue, the evacuation operation will slow down due to lack of oil flow to the pump.

1. Remove the strainer clean out plug (Figure 7-1), and pull the screen (Figure 7-2) out.

2. Wash the plug and screen in clean fuel oil.

3. Place screen in plug counter bore and replace assembly in strainer housing. Tightening plug wrench tight. Use of pipe thread sealant is recommended.

Troubleshooting

Problem:

Unit operates approximately 25 seconds, then shuts off before all of the oil is out of the vehicle engine.

Correction:

- (a) Oil may have too heavy viscosity due to a heavy weight oil or cold oil. The engine of the vehicle should be started and run to heat the oil to above 70°F. or set the time delay switch to hold the pump engaged longer than the standard 25 seconds factory setting. See time delay switch adjustment (Figure 6).
- (b) Strainer screen may be plugged with foreign material. Clean strainer screen in diesel fuel (Figure 7).
- (c) The FLOCS unit may be trying to lift oil from too low a level. 10 feet lift is maximum. Move the FLOCS unit closer to the vehicle oil pan level.
- (d) Hose connections may not be right at the vehicle pan plug. Check and tighten hose to plug union connection.

Problem:

Unit doesn't go into the evacuation cycle when "cycle run" button is pushed.

Correction:

- (a) Check wiring to be sure there are no broken or disconnected wires.
- (b) Check fuse on the power line to be sure power is being supplied to the unit.

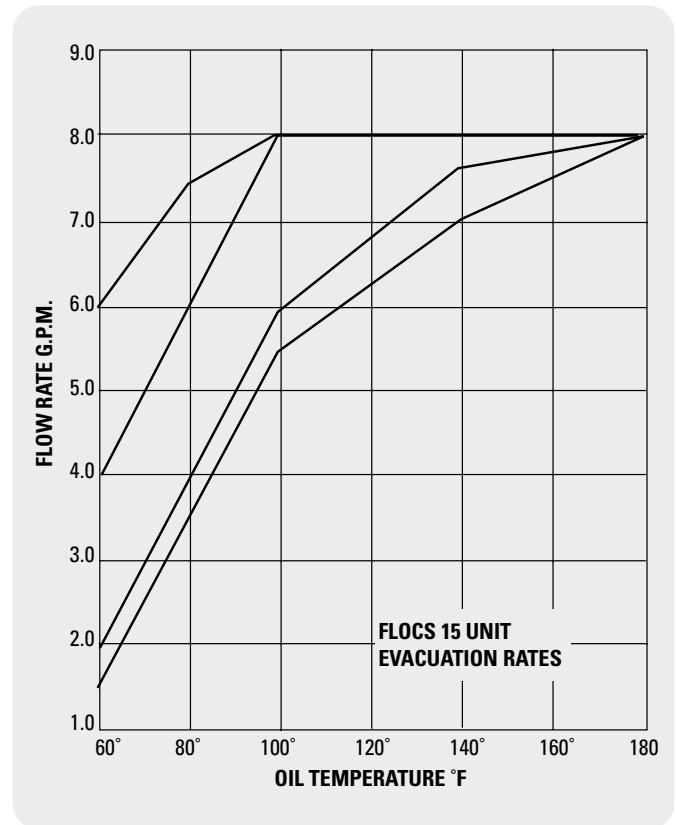
Problem:

Evacuation is not fully completed when unit shuts off.

Correction:

- (a) Flow switch may be set too high and be too sensitive to the lower stream of oil near the completion of evacuation. Adjust flow switch (Figure 5)
- (b) Broad flat oil pans with drain connection coming out the side instead of the bottom can cause air to enter into the drain line causing premature shut off. Run a second cycle by resetting the cycle start button.
- (c) Cold oil in the oil pan can cause slow drain down of the oil pan and allow the FLOCS unit to shut off prematurely. Start vehicle engine and warm oil above 70°F. before evacuating.

Flow Rate Chart



Quick Seal



Table of Contents

PR Series	272
TC/MTC/RTC/OTC Series	274
H and K Series	277

Basic Sealing Methods



End Seal — Seals on End of Tube

- General purpose leak testing
- For air, water, refrigerant



Inside Diameter (I.D.) Seal

- Works well with all test media including helium, air, and most refrigerants and gases
- I.D. sealing usually done with inexpensive, easy to replace O-rings



Outside Diameter (O.D.) Seal

- Full flow, minimal restrictions
- Seals on smooth surface
- Seals have minimal exposure to test medium, last longer in hazardous duty
- Seals are larger and longer for better sealing

QUICK SEAL[®] Reference Guide

Tube Connector Part	PR	TC	RTC	OTC	MTC
Standard Tube Sizes (inches)	¼ thru ¾	½ thru 2-¼	¼ thru 1	0.060 thru ¾	N/A
Metric Tube Sizes (mm)	7 mm thru 22 mm	3 mm thru 57 mm	7 mm thru 25 mm	2 mm thru 9 mm	4 mm thru 54 mm
Maximum Pressure PSI (BAR)	650 (44)	650 (44)	650 (44)	650 (44)	650 (44)
Vaccum (MICRONS)	10	**	**	**	**
*Sealing Method	O.D.	E	E	O.D.	E
Tube Type					
Straight					
	●	●	●	●	●
Expanded					
				●	

Test Plug/Filling Connector Part	H	K
Standard Bore Sizes (inches)	0.343 thru 4.250	0.343 thru 4.250
Metric Bore Sizes (mm)	9 mm thru 108 mm	9 mm thru 108 mm
Maximum Pressure		
Smooth Bore - PSI (BAR)	50 (3.4)	50 (3.4)
Treaded Bore - PSI (BAR)	100 (6.8)	100 (6.8)
*Sealing Method	I.D.	I.D.
Tube Type		
Smooth Bore		
	●	●
Threaded Bore		
	●	●

* Sealing Method: E = End Seal I.D. = Seal on Inside Diameter O.D. = Seal on Outside Diameter.

** Not recommended for vacuum applications.

For special applications, consult factory.

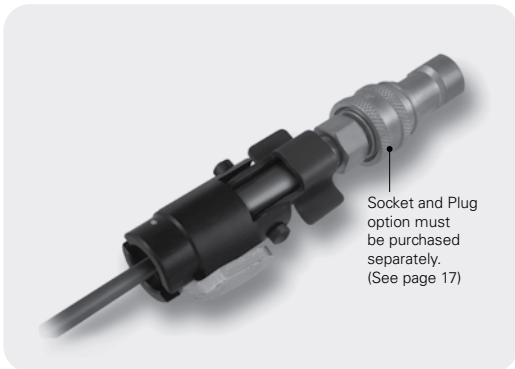
QUICK SEAL® Tube Connectors – Straight Tube

For pressure testing, vacuum dehydrating and other applications requiring a quick, leak-free connection.

PR

¼" to ⅞" O.D. (7 mm to 22 mm)

Pressures to 650 PSI (44 BAR)



Automatic Self-Locking Retention

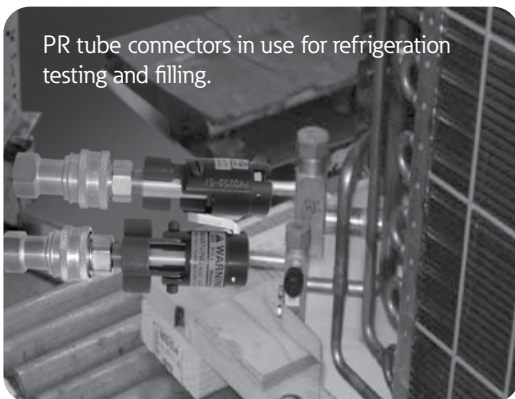
No adjustments other than routine maintenance by the operator are ever necessary.

Single ¼" Long Seal

Lasts longer and provides a greater sealing surface which enables it to withstand the sensitivity of helium leak testing.

Independent Locking and Sealing Actuation

Allows the operator to safely release pressure before removing the connector from the tube.



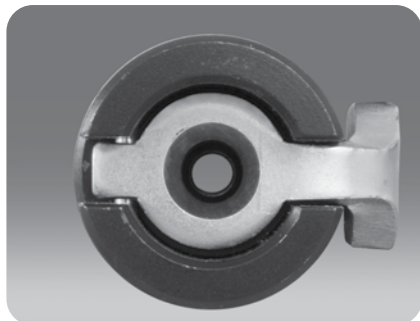
PR tube connectors in use for refrigeration testing and filling.

Designed to provide the sealing necessary for the greater sensitivity of today's demanding leak detection techniques.

- Specially designed for nitrogen, water, helium* and most refrigerants (R12, R22, R134A, R407, R409A, R410, AZ220, AZ250).
- Capable of sealing a 10 micron vacuum, pressures to 650 PSI (44 BAR).
- Exclusive design eliminates need for lubrication, allows easy seal replacement.
- Withstands temperatures from -20° to 250° F (-29° to 121° C).

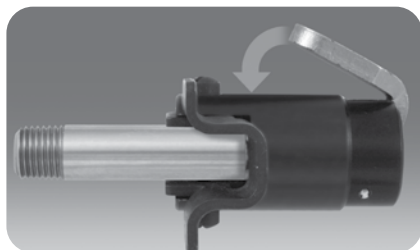
*Helium leak rate less than 1×10^{-7} cc/sec @ 150 PSI (10 BAR).

QUICK SEAL® Tube Connectors – Straight Tube



Design allows full flow for quick evacuation and charging. No restrictive small seal or plunger.

Two locking positions for highest possible secured seal:



Lock Lever



Locking Cam Lever – compresses seal around O.D. of tube.

Series HK Socket and Plug Option



PR Connectors

The PR Tube Connectors feature the Danfoss automatic self-locking device, which instantly connects seal pressure and vacuum lines to straight end tubing creating a leak-free seal. These units work on the push-on, pull-off principle – the higher the pressure, the tighter the hold.

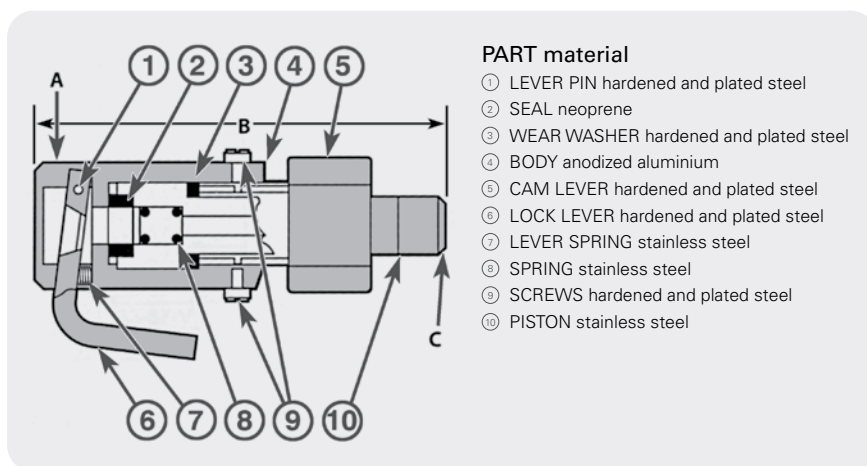
Connection to tube is instantaneous. Just connect unit to service line, depress the lock lever, push on over tubing, pressing firmly to stop position and actuate cam lever. This automatically locks the tube in place for a leak-free seal, ready for pressure testing, vacuum dehydrating or charging with refrigerant. To disconnect from tubing, relieve test pressure, actuate cam lever 90°, depress lock lever and pull off. It's that simple.

Simplified design eliminates lubrication requirements and allows easy seal

replacement, which can be done in seconds. The seal is compressed around the O.D. of tube and actuated by the cam lever independent of the locking mechanism. Since it's not an end type seal, the surface condition of the tube's cutoff end does not affect the seal. It lasts longer and has a greater sealing area to withstand the sensitivity of helium and freon testing.

A quick disconnect can be assembled directly to the male pipe thread inlet port without the need of a short nipple or adapter.

Recommended for a range of services including helium, air, water, vacuum and most refrigerants. The PR is constructed with a heat treated and plated steel lock lever and neoprene seal suitable for temperatures from -20° to 250° F (-29° to 121° C).



Part/Order Numbers*	Connector Dimensions				
	Tube Size	Minimum Tube Length	O.D. (A)	Length (B)	Inlet (C)
PR Series					
PR0250-57	¼"	1.00"	1.13" rd.	3.50"	1/4" NPT
PR0312-57	⅝"				
PR0375-57	⅜"				
PR0437-57	⅞"	1.13"	1.38" rd.	3.63"	1/4" NPT
PR0500-57	½"				
PR0625-57	⅝"				
PR0750-57	¾"	1.38"	2.00" hex	5.25"	3/4" NPT
PR0875-57	⅞"				

* When ordering, please specify part number, tube O.D., minimum available tube length, test pressure, media and media temperature. Tube O.D. tolerance must be +.003/-0.005 maximum.

QUICK SEAL® Tube Connectors – Straight Tube Single Motion/High Speed Leak Test Tool

TC/MTC/RTC/OTC

Pressure to 650 PSI (44 BAR))



This self-sealing, automatic locking device works on a push-on, pull-off principle. Instantly connects and seals pressure lines.

TC Tube Connectors

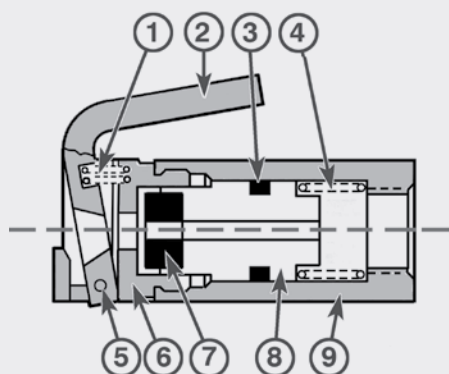
1/8" to 2-1/4" O.D. (3 to 57 mm)

The TC Tube Connectors were originally developed for production line use on refrigeration coils, but have also earned overwhelming acceptance for use on compressor units, heat exchangers and any other assemblies which require a quick, easy and efficient way to attach pressure lines to straight end tubing.

RTC Tube Connectors

For short length tubes 1/4" to 1" O.D. (7 to 25 mm)

The RTC Tube Connectors have been specially designed for use in applications where only a short length of tube is available for engagement. Just attach the connector to the service line, depress the lock lever and push on over the tubing, until the spring loaded seat and plunger assembly is depressed a minimum of 1/8 inch.



PART material

- ① LEVER SPRING stainless steel
- ② LOCK LEVER hardened and plated steel
- ③ QUAD RING neoprene
- ④ COMPRESSION SPRING stainless steel
- ⑤ LEVER PIN hardened and plated steel
- ⑥ HEAD anodized aluminum
- ⑦ TUBE SEAL neoprene
- ⑧ PLUNGER anodized aluminum
- ⑨ CYLINDER anodized aluminum

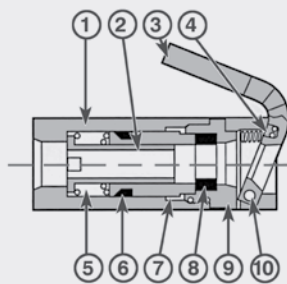
QUICK SEAL® Tube Connectors – Straight Tube Single Motion/High Speed Leak Test Tool

OTC with Outside Diameter Type Seal

0.060" to 3/8" O.D. (2 mm to 9 mm)

The OTC Tube Connectors have been designed specifically for use in those applications where there are advantages to making the tube connector's seal on the outside diameter of the tube – for example, where connection has to be made to smooth tubes which do not have square cut ends. They feature a "Full Flow" design with an internal tube stop.

A seal is compressed around the tube by the plunger as it is actuated by the test pressure. In 1500 Series OTC connectors for capillary tubes, a leak-free seal is created by an O-ring which is compressed around the tube by the plunger as it is actuated by the test pressure. A lock lever grips the tube for positive hold.



PART material

- ① CYLINDER anodized aluminum
- ② STOP SLEEVE stainless steel
- ③ LOCK LEVER hardened and plated steel
- ④ LEVER SPRING stainless steel
- ⑤ COMPRESSION SPRING stainless steel
- ⑥ QUAD RING neoprene
- ⑦ PLUNGER anodized aluminum
- ⑧ SEAL neoprene
- ⑨ HEAD anodized aluminum
- ⑩ LEVER PIN stainless steel



TC, RTC & OTC Connectors

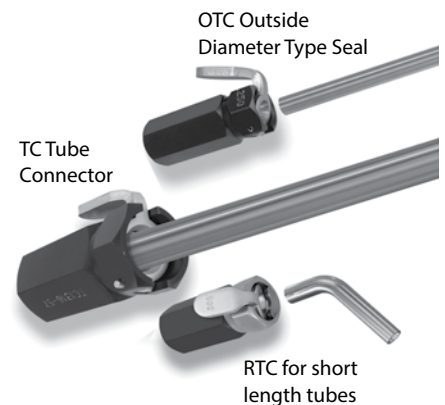
Standard TC, RTC and OTC Connectors are of aluminum construction with a heat treated and plated steel lock lever. Neoprene seals and packing are suitable for temperatures from -20° to 250° F (-29° to 121° C) and are standard; other seal and quad ring materials are available.

Also available are STC connectors with stainless steel construction (except the lock lever).

Danfoss TC, RTC and OTC Connectors are recommended for a wide variety of services with air, water and most refrigerants.

Connection to tubing is instantaneous. Just attach the connector to the service line, depress the lock lever and push on over tubing, pressing firmly to the stop position. This automatically locks the tube into place for a leak-free seal, ready for pressure testing or charging with refrigerant.

To disconnect the tubing, relieve the test pressure and then press the lock lever and pull off. It's that simple.



QUICK SEAL® Tube Connectors – Straight Tube Single Motion/High Speed Leak Test Tool

Part/Order Numbers*	Tube Size	Minimum Tube Length	Connector Dimensions		Inlet	
Across Flats						Length
TC Series						
TC1300-57*	1/8"	1.25"	0.88"	2.38"	1/4"NPT	
TC1301-57*	3/16"					
TC1302-57	1/4"	1.00"	0.88"	2.38"	1/4"NPT	
TC1303-57	5/16"					
TC1304-57	3/8"					
TC1305-57	1/8" pipe	1.25"	1.25"	3.00"	1/4"NPT	
TC1306-57	7/16"					
TC1307-57	1/2"					
TC1308-57	1/4" pipe					
TC1309-57	9/16"					
TC1310-57	5/8"					
TC1311-57	3/8" pipe	1.50"	1.75"	3.88"	3/8"NPT	
TC1312-57	11/16"					
TC1313-57	3/4"					
TC1314-57	13/16"					
TC1314-57	13/16"					
TC1316-57**	7/8"					
TC1317-57**	15/16"					
TC1000-57	1"	1.88"	2.25"	5.06"	1/2"NPT	
TC1319-57	3/4" pipe					
TC1321-57	1-1/8"					
TC1322-57	1-3/16"					
TC1323-57	1-1/4"					
TC1324-57	1-5/16"					
TC1326-57**	1-3/8"					
TC1327-57**	1-1/2"					
MTC Series						
MTC5060-57	6 mm	25 mm	0.88"	2.38"	1/4"NPT	
MTC5070-57	7 mm					
MTC5090-57	9 mm					
MTC5100-57	10 mm					
MTC5120-57	12 mm	32 mm	1.25"	3.00"	1/4"NPT	
MTC5150-57	15 mm					
MTC5160-57	16 mm					
MTC5180-57	18 mm	38 mm	1.75"	3.88"	3/8"NPT	
MTC5200-57	20 mm					
MTC5220-57	22 mm					
MTC5280-57	28 mm	48 mm	2.25"	5.06"	1/2"NPT	
MTC540-57***	54 mm	57 mm	3.00"	6.13"	3/4"NPT	

Part/Order Numbers*	Tube Size	Minimum Tube Length	Connector Dimensions		
			Across Flats	Length	Inlet
RTC Series					
RTC1602-57	¼"	0.69"	0.88"	2.38"	1/4" NPT
RTC1603-57	⅝"				
RTC1604-57	⅜"				
RTC1605-57	⅛" pipe	0.88"	1.25"	3.00"	1/4" NPT
RTC1606-57	⅞"				
RTC1607-57	½"				
RTC1609-57	⅝"				
RTC1610-57	⅝"				
RTC1616-57	⅞"	-	-	-	-
•OTC Series					
OTC2502-57	¼"	1.00"	0.88"	2.38"	1/4" NPT
OTC2503-57	⅝"				
OTC2504-57	⅜"				
OTC1500-57	.060 – .063"	1.00"	0.88"	2.38"	1/4" NPT
OTC1501-57	.072 – .078"				
OTC1502-57	.081 – .087"				
OTC1503-57	.093 – .099"				
OTC1504-57	.106 – .112"				

* Seal on O.D. of tube

** Pressures to 500 PSI only

*** Pressures to 300 PSI only

♦ When ordering, please specify part number, tube O.D., minimum available length, test pressure, media and media temperature. Tolerance of tube O.D. must be +.003/- .005 maximum.

• For OTC: Tolerance of tube O.D. must be +.002/- .002 maximum.

QUICK SEAL® Connecto-Valves For Gas Leak Detection

0.343" to 4.25" (9 mm to 108 mm) Bores

Threaded Holes – Pressures to 100 PSI (6.8 BAR)

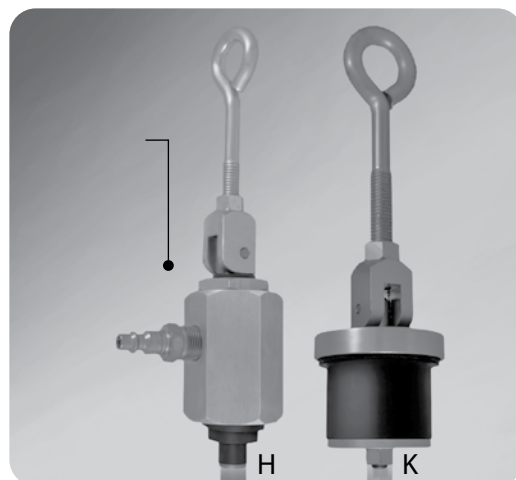
Smooth Bore Holes – Pressures to 50 PSI (3.4 BAR)

H

Expanding Seal Filling Connectors

K

Expanding Seal Filling Connectors



AMER region



H expanding seal filling connector shown servicing an automotive radiator.



The H, K, and Connecto-Valve seal expansion is adjustable.

H Expanding Seal Filling Connectors

H Expanding Seal Filling Connectors are widely used for adapting and connecting pressure lines to tanks, drums, castings, etc., during leak testing. These tools effectively seal flanges, couplings, blind holes, deep openings or holes with restricted clearance. Actuation of the hand cam lever expands the seal firmly inside an opening, creating a dependable To remove the connector, relieve test pressure and lift cam lever. leak-free connection. Inlet openings are pipe tapped for connecting pressure lines.

Construction materials are aluminum, stainless steel, and plated carbon steel. Neoprene seals are standard.

The connectors are suitable for operation from -20° to 250° F (-29° to 121° C).

K Expanding Seal Test Plugs

K Test Plugs use the same sealing principle, materials of construction and action as the type H filling connector, but do not have an inlet port. They are frequently used in pressure testing rough castings. Seals are made of tough long-wearing neoprene and are easily replaced.

All expanding seal plugs and connectors are ruggedly built to assure long, trouble-free service.

Part/Order Numbers*	Piped Tapped	Opening To Be Sealed		
		Bore	Min. Depth	Inlet
H2075-57	1/8" NPT	0.339"	0.59"	1/4" NPT
H2076-57	1/4" NPT	0.438"	0.72"	1/4" NPT
H2077-57	3/8" NPT	0.578"	0.72"	1/4" NPT
H2078-57	1/2" NPT	0.719"	0.88"	3/8" NPT
H2079-57	3/4" NPT	0.922"	1.13"	3/8" NPT
H2080-57	1" NPT	1.156"	1.38"	1/2" NPT
H2081-57	1-1/4" NPT	1.500"	1.38"	1/2" NPT
H2082-57	1-1/2" NPT	1.734"	1.69"	1/2" NPT
H2083-57	2" NPT	2.219"	1.69"	1/2" NPT

* To order, specify thread size, depth of hole, test pressure and test media.

Part/Order Numbers*	Piped Tapped	Opening To Be Sealed		
		Bore	Min. Depth	Inlet
K2063-57	1/8" NPT	0.339"	0.59"	1/4" NPT
K2064-57	1/4" NPT	0.438"	0.72"	1/4" NPT
K2065-57	3/8" NPT	0.578"	0.72"	1/4" NPT
K2066-57	1/2" NPT	0.719"	0.88"	3/8" NPT
K2067-57	3/4" NPT	0.922"	1.13"	3/8" NPT
K2068-57	1" NPT	1.156"	1.38"	1/2" NPT
K2069-57	1-1/4" NPT	1.500"	1.38"	1/2" NPT
K2070-57	1-1/2" NPT	1.734"	1.69"	1/2" NPT
K2071-57	2" NPT	2.219"	1.69"	1/2" NPT
K9072-57	2-1/2" NPT	2.625"	1.56"	1/2" NPT
K9073-57	3" NPT	3.250"	1.56"	1/2" NPT

* To order, specify thread size, depth of hole, test pressure and test media.

Accessories HK Series



HK Series ISO 7241-1B

HK Series Couplings are designed for general purpose hydraulic service. Some are suitable for use with various liquids, chemicals, steam, gases and vacuum. HK Series couplings conform to the dimensional requirements of the ISO 7241-1 Series B standard.

Body sizes in the chart below range from 1/8" to 1". See our QDC section for the complete product line

Features

- End connections are female NPTF (BSPP also available)

Standard Materials

- Zinc-plated steel construction (also available in brass and stainless steel)
- Stainless steel springs, balls and retaining rings
- Buna-N (Nitrile) seals
- PTFE back-up rings in 1-HK through 8-HK steel sockets

Options

- Bleeder-style plug
- Sleeve lock
- Seals: Ask about availability

Series HK Accessories

- Dust caps and dust plugs



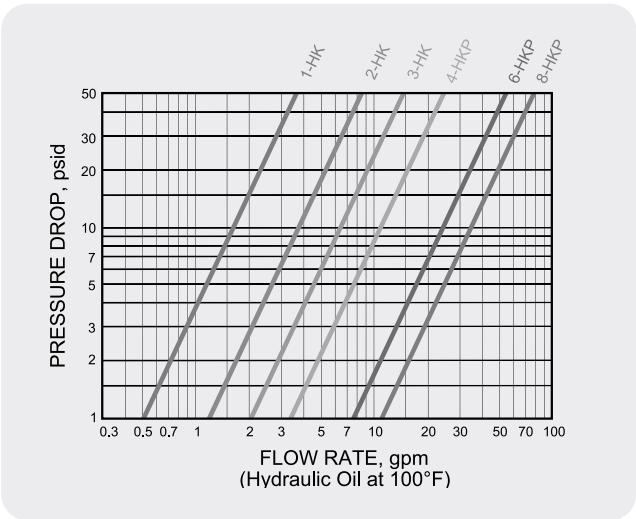
- Release clamp with chain



Rated Pressure and Flow Capacity

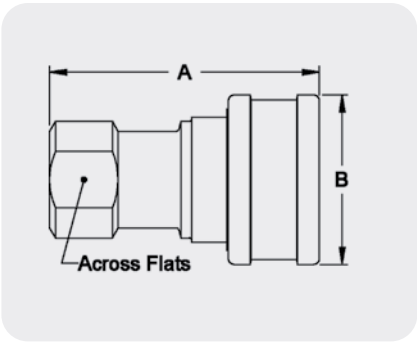
Series	Body Size	O.D. (A)	Length (B)
1HK	1/8"	4,000	275
2HK	1/4"	5,000	345
3HK	3/8"	4,000	275
4HKP	1/2"	5,000	345
6HKP	3/4"	4,000	275
8HKP	1"	4,000	275"

Other sizes available.



Accessories HK Series

AMER region

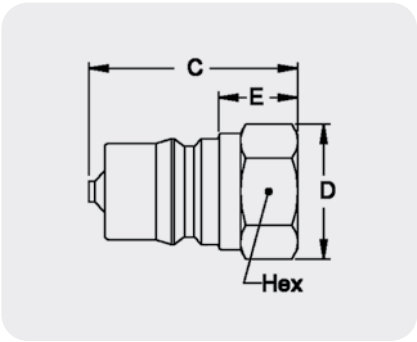


Body Size	Part/Order Number	Thread Size Female NPTF	Dimensions		
			A	B	Across Flats
(in)			(in)	(in)	(in)
1/8	1H11	1/8-27	1.91	0.98	0.56
1/4	2H16	1/4-18	2.26	1.17	0.75
3/8	3H21	3/8-18	2.56	1.42	0.88
1/2	4HP26	1/2-14	2.96	1.86	1.13
3/4	6HP31	3/4-14	3.48	2.22	1.31
1	8HP36	1-11 1/2	4.13	2.61	1.75

A = Overall length B = Maximum diameter

SOCKET

Steel Construction
(also available in brass and stainless steel)



Body Size	Part/Order Number	Thread Size Female NPTF	Dimensions			
			C	D	E	Hex
(in)			(in)	(in)	(in)	(in)
1/8	1K11	1/8-27	1.26	0.65	0.44	0.56
1/4	2K16	1/4-18	1.52	0.87	0.56	0.75
3/8	3K21	3/8-18	1.76	1.01	0.61	0.88
1/2	4KP26	1/2-14	2.03	1.30	0.76	1.13
3/4	6KP31	3/4-14	2.36	1.52	0.71	1.31
1	8KP36	1-11 1/2	2.85	1.88	0.97	1.63

C = Overall length D = Maximum diameter E = Exposed length when connected
More plug and socket configurations are available – see our coupling catalog for the complete product line.

PLUG

Steel Construction
(also available in brass and stainless steel)

Accessories 3000/4000/5000/6000 Series

3000/4000/5000/6000 Series

Industrial Interchange Pin Lock Couplings are designed for compressed air, gases and liquids. Body sizes are 1/4", 3/8", 1/2" and 3/4".

Features

- Easy, automatic, push-to-connect design provides instantaneous connection and disconnection of lines, plus automatic shut-off of socket end of line
- 1/4" and 1/2" sockets accept ISO 6150 Series B and A-59439 plugs/males
- Optional sleeve lock prevents accidental disconnection
- Optional seal and valve materials available

Standard Materials

Socket

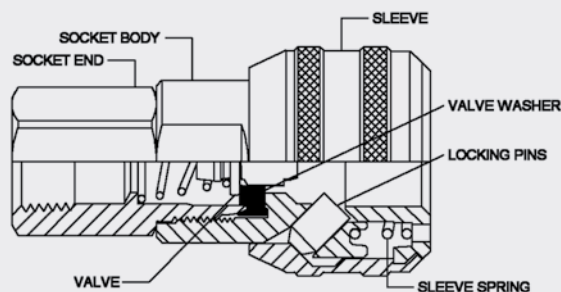
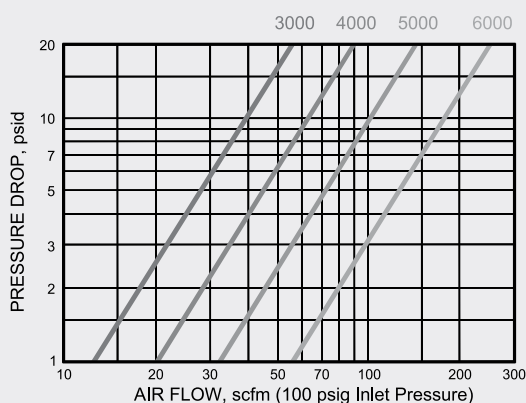
- Brass Body
- Zinc Plated Steel Valve
- Buna-N (Nitrile) Seal
- Stainless Steel Springs
- Stainless Steel Locking Pins

Plug

- Zinc Plated Case
- Hardened Steel (All Sizes)
- Brass (All Sizes)
- Stainless Steel (Series 3000)

Accessories

- Dust caps and dust plugs



Rated Pressure

Series	Body Size	PSI	BAR
3000	1/4"	2,000	138
4000	3/8"	1,000	69
5000	1/2"	500	35
6000	3/4"	220	15

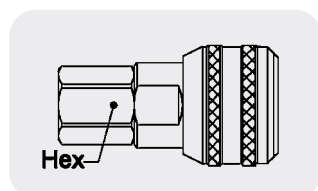
* Air flow (scfm) with 5 PSI pressure drop and 100 PSIG inlet pressure.

Flow Capacity

Series	*Scfm
3000	24
4000	45
5000	72
6000	125

Accessories 3000/4000/5000/6000 Series

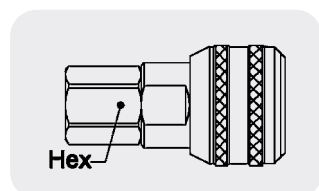
Series 3000 1/4" Nominal



SOCKET - male end connections

Model	Thread Size	Finish
2900	1/8-27 NPTF	Brass
3100E	1/4-18 NPTF	Brass
3300E	3/8-18 NPTF	Brass

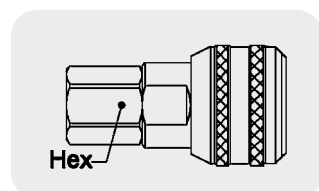
Series 4000 3/8" Nominal



SOCKET - male end connections

Model	Thread Size	Finish
4100A	1/8-27 NPTF	Brass
4100	1/4-18 NPTF	Brass
4300	3/8-18 NPTF	Brass
4500E	1/2-14 NPTF	Brass

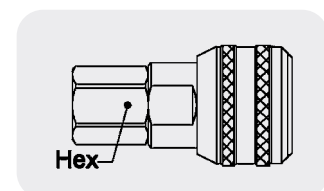
Series 5000 1/2" Nominal



SOCKET - male end connections

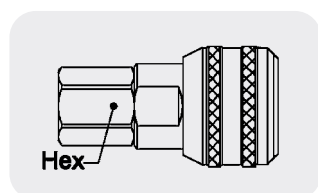
Model	Thread Size	Finish
50100	1/4-18 NPTF	Brass
5100E	3/8-18 NPTF	Brass
5300E	1/2-14 NPTF	Brass
5500	3/4-14 NPTF	Brass

Series 6000 3/4" Nominal



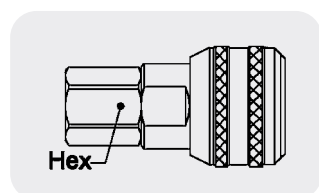
SOCKET - male end connections

Model	Thread Size	Finish
6300	1/2-14 NPTF	Brass
6500	3/4-14 NPTF	Brass
6700E	1-1 1/2 NPTF	Brass



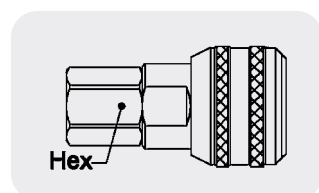
SOCKET - female end connections

Model	Thread Size	Finish
2800	1/8-27 NPTF	Brass
3000	1/4-18 NPTF	Brass
3200	3/8-18 NPTF	Brass



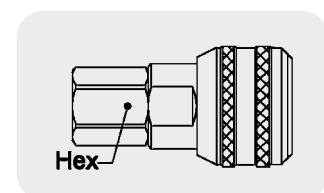
SOCKET - female end connections

Model	Thread Size	Finish
4000A	1/8-27 NPTF	Brass
4000	1/4-18 NPTF	Brass
4200	3/8-18 NPTF	Brass
4400	1/2-14 NPTF	Brass



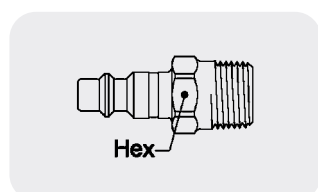
SOCKET - female end connections

Model	Thread Size	Finish
5000A	1/4-18 NPTF	Brass
5000	3/8-18 NPTF	Brass
5200	1/2-14 NPTF	Brass
5400E	3/4-14 NPTF	Brass



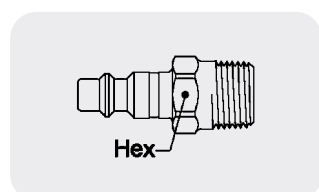
SOCKET - female end connections

Model	Thread Size	Finish
6200E	1/2-14 NPTF	Brass
6400E	3/4-14 NPTF	Brass
6600E	1-1 1/2 NPTF	Brass



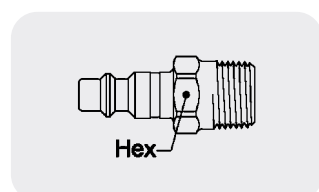
PLUG - male end connections

Model	Thread Size	Finish
10	1/4-18 NPTF	Steel
14	3/8-18 NPTF	Steel
B10	1/4-18 NPTF	Brass
LL10	1/4-18 NPTF	Stainless



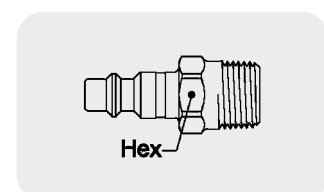
PLUG - male end connections

Model	Thread Size	Finish
38	1/8-27 NPTF	Steel
40	1/4-18 NPTF	Steel
42	3/8-18 NPTF	Steel
44	1/2-14 NPTF	Steel
B40	1/4-18 NPTF	Brass
B42	3/8-18 NPTF	Brass



PLUG - male end connections

Model	Thread Size	Finish
50E	1/4-18 NPTF	Steel
52	3/8-18 NPTF	Steel
54E	1/2-14 NPTF	Steel
56	3/4-14 NPTF	Steel
B52	3/8-18 NPTF	Brass
B54	1/2-14 NPTF	Brass



PLUG - male end connections

Model	Thread Size	Finish
64A	1/2-14 NPTF	Steel
66A E	3/4-14 NPTF	Steel
68A	1-1 1/2 NPTF	Steel
B64A	1/2-14 NPTF	Steel
B66A	3/4-14 NPTF	Brass

More plug and socket configuration are available – see our coupling catalog for the complete product line.

Overall catalog summary

Series	Section	Looking mechanism	Material	Region	Page number
5100	Fluid transfer&Hydraulic	Screw to connect	Brass	Global	95
5600	Fluid transfer&Hydraulic	Ball latch poppet	Carbon steel	AMER	16
5600	Fluid transfer&Hydraulic	Ball latch poppet	Stainless steel	Global	21
2HKIG/2HKIL	Fluid transfer&Hydraulic	Ball latch poppet	Stainless steel	Global	44
FD48	Fluid transfer&Hydraulic	Ball latch poppet	Carbon steel	AMER	47
FD49	Fluid transfer&Hydraulic	Flat face	Steel	AMER	73
FD72/76	Fluid transfer&Hydraulic	Ball latch poppet	Carbon steel	AMER	32
FD85	Fluid transfer&Hydraulic	Screw to connect	Steel	Global	99
FD85	Fluid transfer&Hydraulic	Screw to connect	Stainless steel	Global	99
FD86	Fluid transfer&Hydraulic	Screw to connect	Steel	Global	101
FD96	Fluid transfer&Hydraulic	Flat Face	Steel	Global	75
FF	Fluid transfer&Hydraulic	Flat Face	Steel	Global	61
FFCUP	Fluid transfer&Hydraulic	Flat Face	Steel	Global	66
Safe Breakaway	Fluid transfer&Hydraulic	Flat Face	Stainless steel	EMEA	81
GA90090	Fluid transfer&Hydraulic	Screw to connect	Steel	EMEA	86
H15000	Fluid transfer&Hydraulic	Ball latch poppet	Steel	EMEA	11
H5000	Fluid transfer&Hydraulic	Ball latch poppet	Steel	Global	23
H5000	Fluid transfer&Hydraulic	Ball latch poppet	Brass	Global	26
H5000	Fluid transfer&Hydraulic	Ball latch poppet	Stainless steel	Global	29
HK	Fluid transfer&Hydraulic	Ball latch poppet	Steel	Global	33
HK	Fluid transfer&Hydraulic	Ball latch poppet	Brass	Global	36
HK	Fluid transfer&Hydraulic	Ball latch poppet	Stainless steel	Global	39
HKFR	Fluid transfer&Hydraulic	Ball latch poppet	Carbon steel	Global	43
IA	Fluid transfer&Hydraulic	Ball latch poppet	Steel	EMEA	13
IP	Fluid transfer&Hydraulic	Screw to connect	Stainless steel	EMEA	88
K8000	Fluid transfer&Hydraulic	Flat Face	Steel	EMEA	77
L7000	Fluid transfer&Hydraulic	Ball latch straight through	Steel	EMEA	52
L7000	Fluid transfer&Hydraulic	Ball latch straight through	Brass	EMEA	55
L7000	Fluid transfer&Hydraulic	Ball latch straight through	Stainless steel	EMEA	58
LL2MS	Fluid transfer&Hydraulic	Push to connect	Stainless steel	EMEA	42
MLDB	Fluid transfer&Hydraulic	Flat Face	Stainless steel	Global	79
MLFF	Fluid transfer&Hydraulic	Flat Face	Stainless steel	Global	68
Multi-FF	Fluid transfer&Hydraulic	Multiplate Flat face	Steel	Global	70
Q9000	Fluid transfer&Hydraulic	Flat Face	Steel	EMEA	78
ST	Fluid transfer&Hydraulic	Ball latch straight through	Steel	Global	48
ST	Fluid transfer&Hydraulic	Ball latch straight through	Brass	Global	48
ST	Fluid transfer&Hydraulic	Ball latch straight through	Stainless steel	Global	48
W36000	Fluid transfer&Hydraulic	Screw to connect	Steel	EMEA	82
W46000	Fluid transfer&Hydraulic	Screw to connect	Steel	EMEA	103
W6000	Fluid transfer&Hydraulic	Screw to connect	Steel	Global	89
W6000	Fluid transfer&Hydraulic	Screw to connect	Stainless steel	Global	92
FD35	High pressure	Ball latch	Steel	Global	108
HP3	High pressure	Screw to connect	Steel	Global	106
UH	High pressure	Ball latch	Steel	Global	110
W56000	High pressure	Screw to connect	Steel	Global	107
FD69	Water blast	Ball latch	Steel	Global	113
FD69	Water blast	Ball latch	Stainless steel	Global	113
R4000	Check valves	-	Steel	Global	117
R4000	Check valves	-	Brass	Global	119
R4000	Check valves	-	Stainless steel	Global	121
FD15	Diagnostic	Screw to connect	Brass	Global	125
FD90	Diagnostic	Screw to connect	Steel	Global	127
FF14802 pressure gauge kit	Diagnostic	-	Steel	AMER	129
FS flow sensor	Diagnostic	-	Brass	AMER	131
2500	Breathing air	Ball latch	Stainless steel/Brass and steel	Global	137
FD17	Breathing air	Screw to connect	Stainless steel	Global	134
FD17	Breathing air	Screw to connect	Aluminium	Global	134
Safe Breathe	Breathing air	Push to connect	Stainless steel	Global	135
ADB	Thermal management	Flat Face	Aluminium	Global	140
FD83	Thermal management	Bajonette	Steel	Global	143
Flo-Temp	Thermal management	Thread to connect	Brass	AMER	154
UQD	Thermal management	Push to connect	Stainless steel	Global	145
UQDB	Thermal management	Push to connect	Stainless steel	Global	148
OCP ORV3 BMQC	Thermal management	Push to connect	Stainless steel	Global	152
5400	Refrigerant	Thread to connect	Steel	Global	159
LF	Industrial gas	Thread to connect	Aluminium+Brass	Global	166
600/700	Industrial gas	Thread to connect	Brass	AMER	168
2HKGL	Food and beverage	Push to connect	Stainless steel	EMEA	175
100	Pneumatic	Push to connect	Brass	AMER	227
1000/400/500	Pneumatic	Ball latch	Brass/Steel	Global	193
180/280	Pneumatic	Push to connect	Brass	AMER	229
210/310	Pneumatic	Push to connect	Zinc plated carbon steel	AMER	224
2RL/3RL	Pneumatic	Push to connect with ring lock sleeve	Zinc plated steel	AMER	235
3000/4000/5000/6000	Pneumatic	Push to connect	Brass	Global	210
Adapters	Pneumatic	Accessory	-	EMEA	243
AutoFlo23/24	Pneumatic	Push to connect	Brass	Global	220
Blow guns	Pneumatic	Accessory	-	EMEA	242
Flex-air	Pneumatic	Accessory	-	AMER	240
Full Bore	Pneumatic	Push to connect	Zinc plated carbon steel	AMER	231
G600/1900/T1100/T1300	Pneumatic	Ball latch	Brass	EMEA	201
Gas-mate	Pneumatic	Push to connect	Brass	AMER	233
Safeline GD/ID10500	Pneumatic	Push button	Aluminium/Brass	Global	182
Safeline GD18500	Pneumatic	Push button	Aluminium/Brass	Global	187
Safeline ID10900	Pneumatic	Push button	Aluminium/Brass	Global	185
Safeline ID18900	Pneumatic	Push button	Aluminium/Brass	Global	189
Safeline TD18300	Pneumatic	Push button	Aluminium/Brass	Global	191
FD14	FLOCs section	Push to connect	Carbon steel	AMER	250
FLOCS	FLOCs section	-	-	AMER	253
H and K	Quick seal section	-	-	AMER	277
PR	Quick seal section	-	-	AMER	272
TC/MTC/RTC/OTC	Quick seal section	-	-	AMER	274



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