

Eaton

Exclusive Selection of Quick Disconnect Couplings

Gromelle™ & Hansen™



EATON

Powering Business Worldwide



The Power of Eaton



There's a certain energy at Eaton. It's the power of integrating the competencies of some of the world's most respected names to build a brand you can trust to meet every power management need. The energy created supports our commitment to powering business worldwide.

As the world's demand increases for high-efficiency hydraulic systems for mobile and stationary applications, Eaton is helping to solve these challenges more reliably, efficiently, and sustainably. Our goal is simple; to provide unique solutions across a wide range of markets that keep businesses on the leading edge of change. Visit Eaton.com/hydraulics/fusion.

That's the power of Eaton.



Serving eight key segments – sharing one focus



Alternative Energy

Making energy sources technically practical and economically sound requires the kind of control made possible by high-quality components. When Eaton is on the inside, you will experience the reliable, consistent performance to create and capture energy – making renewable energy an every-day energy.



Discrete Manufacturing

Produce at peak efficiency with the superior precision and repeatability of Eaton products. Eaton hydraulic components provide the precise control and consistent operation required for virtually every step in your manufacturing operation. With Eaton, we'll help you redefine the meaning of raw productivity.



Oil & Gas

As the oil & gas industry continues to face further globalization and consolidation, large-scale organizations that can meet your needs in every corner of the world are more difficult to find. At Eaton, our portfolio of products is only surpassed by our tremendous reach.



Processing

Whatever your industry, no matter which processes you manage, Eaton parts and systems help keep you up and running. Our components make equipment more efficient and easier to use, so you get optimal machine performance and maximum productivity.



Agriculture & Forestry

There's a reason farming and forestry are called "working the land." These segments involve some of the hardest work and longest hours of any sector in the economy. Your productivity and profitability depend on the way you manage time and tasks.



Commercial Vehicles

Eaton technologies can make your driving operation more successful. Greater comfort and productivity help increase driver retention, while reduced emissions, leaks, and noise improve environmental performance. Increased efficiencies overall mean lower costs and higher net revenue.



Material Handling

Eaton hydraulic systems provide the precise control and consistent operation required for material handling and utility work. With a broad selection of products and solutions built in, Eaton helps make you a master of your domain.



Construction & Mining

When you work on a large scale, even the details are big. You need to trust every part of the equipment that lets you handle construction and mining jobs. For reliable components that deliver consistent performance in extreme conditions, turn to Eaton.

Eaton is a leading diversified power management company

Eaton provides reliable, efficient and safe power management for a growing number of industries.

Understanding and helping our customers succeed

- Listening and understanding to requirements and business drivers
- Delivering solutions with value propositions to solve the critical business needs

Knowing what's important to our customers and integrating that knowledge into the fabric of our business

- ...to deliver innovative, quality products
- ...to respond fast
- ...to provide dedicated customer service and support around the globe

Our strength is global reach with local responsiveness and support

- Customers served in more than 150 countries
- Diverse channels ensure reliable availability and support
- Design and engineering teams provide support for standard products and custom solutions
- Eaton experts offer efficient product and application training

Table of Contents

Overview	2
How to Order	5
Safety Information	6
Fluid Compatibility	7

Flat Face Couplings

FF Series: ISO 16028 Interchange Steel	10
FFCUP Series: ISO 16028 Connect Under Pressure Flat Face Plug/Male	15
MLFF Series: ISO 16028 Stainless Steel Flat Face/Dry Break	17
MLDB Series: Stainless Steel Flat Face/Dry Break	19

Ball-Locked Pull-to-Connect Couplings

IA Series ISO 7241/1 A Interchange	21
HK (Steel): ISO 7241/1B Series Interchange	24
HK (Brass): ISO 7241/1B Series Interchange	27
HK (Stainless Steel): ISO 7241/1B Series Interchange	30
H5000 (Steel) Series: Proprietary Profile	33
H5000 (Brass) Series: Proprietary Profile	36
H5000 (Stainless Steel) Series: Proprietary Profile	39
L7000 (Steel) Series: Full Flow	42
L7000 (Brass) Series: Full Flow	44
L7000 (Stainless Steel) Series: Full Flow	46

Check Valves

R4000 (Steel) Series	48
R4000 (Brass) Series	50
R4000 (Stainless Steel) Series	52

Screw-to-Connect

W6000 (Steel) Series: Heavy Duty Couplings	54
W6000 (Stainless Steel) Series: Heavy Duty Couplings	57
W36000 Series: Heavy Duty Couplings	60

Eaton Quick Disconnect Couplings – Customizing Solutions for the Future... Hydraulics and Beyond

For over 50 years, Eaton has continued to manufacture and supply the highest performing quick disconnect couplings globally for many different market segments including agriculture, construction, transportation, and fire and rescue just to name a few. Eaton’s quality and performance have never been compromised when it comes to engineering and manufacturing its full line of quick disconnect couplings. From traditional industry standards to custom couplings for the next generation of emerging markets and new advanced technologies, Eaton continues to provide quick disconnect coupling solutions to meet your demands.

Custom Design Capability – One Application at a Time

Eaton continues the tradition of developing custom quick disconnect couplings for customers that need a product to perform above and beyond industry standards. Whether it is a custom coupling for the world’s most powerful and sophisticated super computers that use electronic cooling or a self contained breathing apparatus coupling for first responders, Eaton has the ability to work directly with you on a solution. Contact Eaton to see how our dedicated and experienced design engineering team will work with you to develop a quick disconnect coupling solution.

How to Order

Eaton Quick Disconnect Couplings can be ordered as separate halves. For special packaging, contact Eaton. Standard coupling part numbers are described below.

Dimensions

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

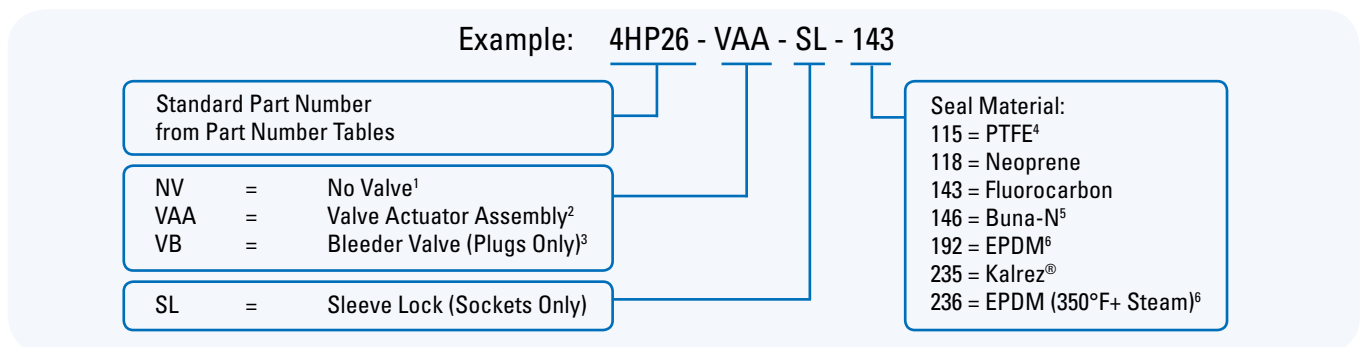
Coupling Identification

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

Caution:

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

HK Series (pages 24 to 32) – How to build a socket or plug part number with options:



Notes:

- 1) The NV option should be specified for a socket and a plug when a non-valved coupling is desired. Non-valved Series 1HK through 8HKP plugs do not contain seals. Do not specify a seal material.
- 2) The VAA option should be specified for either a socket or a plug when a one-way coupling is desired. (Not available for series 10HK)
- 3) The VB option can be ordered for Series 1HK through 6HKP plugs to prevent pressure build-up in disconnected hydraulic lines or to reduce hose whip when disconnecting pneumatic lines.
- 4) Series HK couplings are designed for use with elastomer seals. PTFE is not an elastomer. It is rigid and not resilient. Couplings with PTFE seals may leak and/or be difficult to connect. Force to connect may be reduced by heating connected couplings in hot water; then, cooling before disconnecting. PTFE seals are available for Series 1-HK through 8-HKP, except Series P2-HK.
- 5) The 146 seal option may be specified for fuels and hydraulic fluids that are known to cause standard Buna-N seals to swell excessively.
- 6) The 236 EPDM seal option should be ordered for use with steam at or above 350° F. The 192 EPDM seal option should be ordered for hot water above 180° F and steam below 350° F.
- 7) Some part numbers may be subject to minimum order quantities and/or available only by special quotation. Consult your local distributor or sales representative.

Safety Information

1.0 General Instructions.

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

1.2 Distribution. A copy of this safety bulletin should be distributed to all individuals responsible for using and/or selecting Eaton 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 Eaton 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 Eaton product being used. The user must provide necessary product warnings for Eaton couplings products, used with systems or equipment, to the operators of the systems or equipment.

1.5 Usage with other Manufacturers' Products. When using Eaton 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 Eaton Couplings.

2.1 Pressure. Ensure that the maximum operating pressure of the system or equipment does not exceed the rated operating pressure of the Eaton 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 Eaton 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 Eaton 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 Eaton Couplings.

3.1 Inspection of Product. Prior to installation, ensure that the Eaton 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 Eaton 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 Eaton couplings are functioning properly. Eaton 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 Eaton 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 Eaton Sales Representative or Eaton Technical Support.
- Coupling component materials may differ from body material. Refer to specific catalog pages.

This 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.

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 Eaton 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			
	Buna-N	Neoprene	EPR/EPDM	Viton	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			
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			

Fluid	Seals							Metal			
	Buna-N	Neoprene	EPR/EPDM	Viton	Steel	Brass	Stainless Steel	Aluminum			
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			
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			

Fluid Compatibility

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

Fluid	Seals							Metal	
	Buna-N	Neoprene	EPR/EPDM	Viton	Steel	Brass	Stainless Steel	Aluminum	
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	
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 Alcohol (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	

Fluid	Seals							Metal	
	Buna-N	Neoprene	EPR/EPDM	Viton	Steel	Brass	Stainless Steel	Aluminum	
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	
Hydrofluorosilicic 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	-	
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	

Fluid Compatibility

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

Fluid	Seals				Metal			
	Buna-N	Neoprene	EPR/EPDM	Viton	Steel	Brass	Stainless Steel	Aluminum
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	G	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-L-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
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

Fluid	Seals				Metal			
	Buna-N	Neoprene	EPR/EPDM	Viton	Steel	Brass	Stainless Steel	Aluminum
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	E	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	U	E	E	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
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
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

FF Series ISO 16028 Interchange Steel



Eaton's FF Series flat face is specifically designed for those applications where quick and easy connections and no-spill performance are essential. The FF 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.

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 Material: High resistant carbon steel with zinc trivalent plating and QPQ finish, ROHS compliant
- Standard Seal Material: NBR+AU
- Available seal options: NBR+AU, FKM, EPDM

Physical Characteristics

ISO Size* (mm)	Coupling Size (in)	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		L/min.	(gpm)	ml-cc.	ml-cc.	N	Lbs
6.3	1/4	350	5075	350	5075	350	5075	1400	20300	1400	20300	1400	20300	17	4.5	0.004	0.007	80	18.0
10.0	3/8	350	5075	350	5075	350	5075	1400	20300	1400	20300	1400	20300	29	7.7	0.006	0.010	140	31.5
12.5	1/2	350	5075	350	5075	350	5075	1400	20300	1400	20300	1400	20300	55	14.5	0.012	0.013	195	43.8
16.0	5/8	350	5075	350	5075	350	5075	1400	20300	1400	20300	1400	20300	67	17.7	0.016	0.030	205	46.1
19.0	3/4	350	5075	350	5075	350	5075	1300	18850	1300	18850	1400	20300	105	27.7	0.034	0.015	215	48.3
25.0	1	350	5075	350	5075	350	5075	1260	18270	1260	18270	1260	18270	177	46.8	0.032	0.033	260	58.5
-	1 1/4	300	4350	300	4350	300	4350	800	11600	800	11600	800	11600	260	68.7	0.170	-	350	78.7
-	1 1/2	270	3915	270	3915	270	3915	800	11600	800	11600	700	10150	450	118.9	0.050	-	390	87.7
-	2	200	2900	160	2320	80	1160	800	11600	640	9280	320	4640	700	184.9	0.100	-	470	105.7

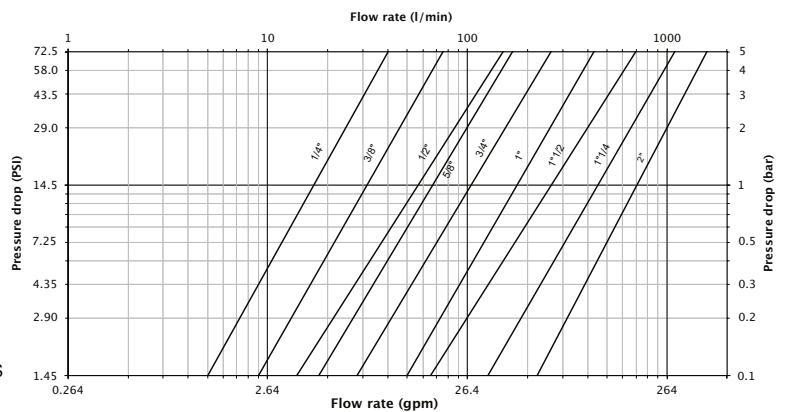
* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard)

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

Applications & Markets



- Hydraulic and Fluid Transfer
- Construction equipment
- Agricultural equipment
- Utility vehicles
- On-Highway vehicles
- Stationary in-plant hydraulics and fluid transfer
- Interchangeable with HTMA couplings 3/8"



Test Fluid: Oil viscosity 30 cSt at 40°C/104°F

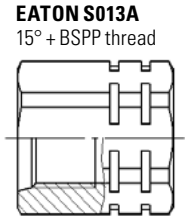
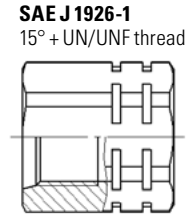
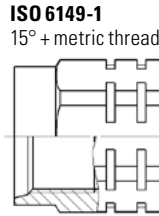
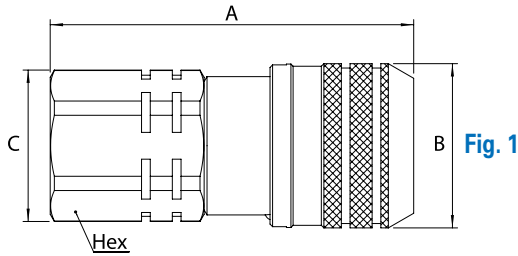
Seal Elastomer Data*

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)	-	-25°C +100°C/-13°F +212°F	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-143	-20°C +200°C/-4°F +392°F	-15°C +180°C/+5°F +356°F
EPDM (Ethylene-Propylene)	-192	-40°C +150°C/-40°F +302°F	on request
HNBR	-507	-32°C +150°C/-25°F +302°F	on request
Kalrez® 6375	-242	-20°C +275°C/-4°F +527°F	on request
Generic FFKM (Perfluorocarbon)	-503	-15°C +275°C/+5°F +527°F	on request

* For reference only, based on Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility

FF Series ISO 16028 Interchange Steel



Sockets(Female)

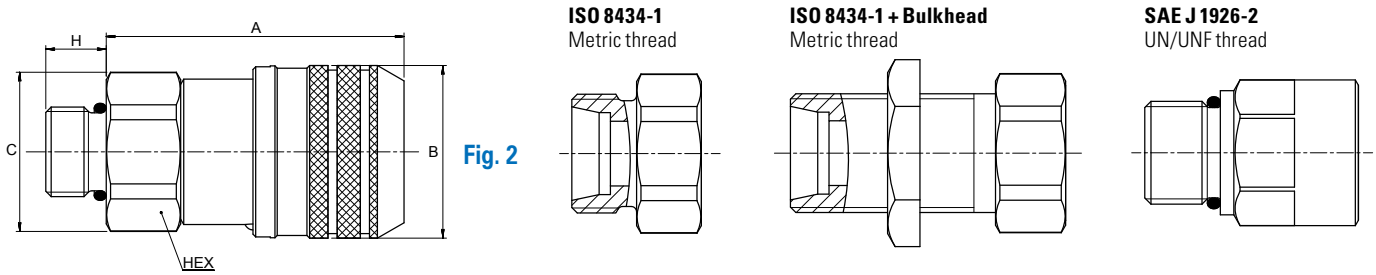
Part Number		Body Size	ISO Size	Nominal Flow Diameter	Thread Size* (Female)			Dimensions						Weight							
NBR+AU	FKM	EPDM	(in)	(mm)	(mm)	NPT	BSPP	ISO 6149-1	SAE J 1926-1	Eaton S013A	Fig.	A (in)	B (in)	C (in)	Hex (in)	A (mm)	B (mm)	C (mm)	Hex (mm)	lbs	grams
6FFS25	6FFS25143	6FFS25192	¼	6.3	6	¼ 18f					1	2.13	1.06	0.94	0.87	54	27	24	22	-	-
6FFS25BS	6FFS25BS143	6FFS25BS192	¼	6.3	6		¼-19				1	2.13	1.06	0.94	0.87	54	27	24	22	-	-
6FFS25FG	6FFS25FG143	6FFS25FG192	¼	6.3	6					G ¼	1	2.13	1.06	0.94	0.87	54	27	24	22	0.30	135
6FFS56UN	6FFS56UN143	6FFS56UN192	¼	6.3	6				¾ 18f UNF		1	2.17	1.06	0.94	0.87	55	27	24	22	-	-
10FFS16FMET	10FFS16FMET143	10FFS16FMET192	¾	10	8.6			M16x1.5			1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	-	-
10FFS37	10FFS37143	10FFS37192	¾	10	8.6	¾ 18f					1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	-	-
10FFS37BS	10FFS37BS143	10FFS37BS192	¾	10	8.6		¾-19				1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	-	-
10FFS37FG	10FFS37FG143	10FFS37FG192	¾	10	8.6					G ¾	1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	0.54	244
10FFS50	10FFS50143	10FFS50192	¾	10	8.6	½ 14f					1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS50BS	10FFS50BS143	10FFS50BS192	¾	10	8.6		½-14				1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS50FG	10FFS50FG143	10FFS50FG192	¾	10	8.6					G ½	1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	0.52	237
10FFS56UN	10FFS56UN143	10FFS56UN192	¾	10	8.6				¾ 18f UNF		1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS75UN	10FFS75UN143	10FFS75UN192	¾	10	8.6				¾ 16f UNF		1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS87UN	10FFS87UN143	10FFS87UN192	¾	10	8.6				¾ 14f UNF		1	2.91	1.26	1.30	1.18	73.8	32	33	30	-	-
12FFS106UN	12FFS106UN143	12FFS106UN192	½	12.5	11				1 ½ 12f UN		1	3.50	1.50	1.56	1.42	89	38.2	39.5	36	-	-
12FFS50	12FFS50143	12FFS50192	½	12.5	11	½ 14f					1	3.27	1.50	1.56	1.42	83	38.2	39.5	36	-	-
12FFS50BS	12FFS50BS143	12FFS50BS192	½	12.5	11		½-14				1	3.27	1.50	1.56	1.42	83	38.2	39.5	36	-	-
12FFS50FG	12FFS50FG143	12FFS50FG192	½	12.5	11					G ½	1	3.27	1.50	1.56	1.42	83	38.2	39.5	36	1.04	472
12FFS75	12FFS75143	12FFS75192	½	12.5	11	¾ 14f					1	3.39	1.50	1.56	1.42	86	38.2	39.5	36	-	-
12FFS75BS	12FFS75BS143	12FFS75BS192	½	12.5	11		¾-14				1	3.39	1.50	1.56	1.42	86	38.2	39.5	36	-	-
12FFS75FG	12FFS75FG143	12FFS75FG192	½	12.5	11					G ¾	1	3.39	1.50	1.56	1.42	86	38.2	39.5	36	1.01	460
12FFS75UN	12FFS75UN143	12FFS75UN192	½	12.5	11				¾ 16f UNF		1	3.27	1.50	1.56	1.42	83	38.2	39.5	36	-	-
12FFS87UN	12FFS87UN143	12FFS87UN192	½	12.5	11				¾ 14f UNF		1	3.39	1.50	1.56	1.42	86	38.2	39.5	36	-	-
16FFS106UN	16FFS106UN143	16FFS106UN192	¾	16	13				1 ½ 12f UN		1	3.50	1.66	1.56	1.42	89	42.2	39.5	36	-	-
16FFS50	16FFS50143	16FFS50192	¾	16	13	½ 14f					1	3.27	1.66	1.56	1.42	83	42.2	39.5	36	-	-
16FFS50BS	16FFS50BS143	16FFS50BS192	¾	16	13		½-14				1	3.27	1.66	1.56	1.42	83	42.2	39.5	36	-	-
16FFS75	16FFS75143	16FFS75192	¾	16	13	¾ 14f					1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	-	-
16FFS75BS	16FFS75BS143	16FFS75BS192	¾	16	13		¾-14				1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	-	-
16FFS75FG	16FFS75FG143	16FFS75FG192	¾	16	13					G ¾	1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	1.20	548
16FFS75UN	16FFS75UN143	16FFS75UN192	¾	16	13				¾ 16f UNF		1	3.27	1.66	1.56	1.42	83	42.2	39.5	36	-	-
16FFS87UN	16FFS87UN143	16FFS87UN192	¾	16	13				¾ 14f UNF		1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	-	-
19FFS100	19FFS100143	19FFS100192	¾	19	15	1 11,5f					1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS100BS	19FFS100BS143	19FFS100BS192	¾	19	15		1-11				1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS100FG	19FFS100FG143	19FFS100FG192	¾	19	15					G 1	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	1.62	737
19FFS106UN	19FFS106UN143	19FFS106UN192	¾	19	15				1 ½ 12f UN		1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS131UN	19FFS131UN143	19FFS131UN192	¾	19	15				1 ½ 12f UN		1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS75	19FFS75143	19FFS75192	¾	19	15	¾ 14f					1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS75BS	19FFS75BS143	19FFS75BS192	¾	19	15		¾-14				1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
25FFS100	25FFS100143	25FFS100192	1	25	18	1 11,5f					1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS100BS	25FFS100BS143	25FFS100BS192	1	25	18		1-11				1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS125	25FFS125143	25FFS125192	1	25	18	1 ¼ 11,5f					1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS125BS	25FFS125BS143	25FFS125BS192	1	25	18		1 ¼-11				1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS125FG	25FFS125FG143	25FFS125FG192	1	25	18					G 1 ¼	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	2.74	1246
25FFS131UN	25FFS131UN143	25FFS131UN192	1	25	18				1 ½ 12f UN		1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	2.77	1260
25FFS162UN	25FFS162UN143	25FFS162UN192	1	25	18				1 ½ 12f UN		1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
32FFS125	32FFS125143	-	1 ¼	-	-	1 ¼ 11,5f					1	4.93	2.56	2.56	2.17	125.1	65	65	55	4.62	2100
32FFS162UN	32FFS162UN143	-	1 ¼	-	-				1 ½ 12f UN		1	4.93	2.56	2.56	2.17	125.1	65	65	55	4.62	2100
40FFS150	40FFS150143	-	1 ½	-	-	1 ½ 11,5f					1	5.21	3.15	3.23	2.56	132.4	80	82	65	6.90	3140
40FFS150BS	40FFS150BS143	-	1 ½	-	-		1 ½-11				1	5.21	3.15	3.23	2.56	132.4	80	82	65	6.90	3140
40FFS150FG	40FFS150FG143	-	1 ½	-	-					G 1 ½	1	5.21	3.15	3.23	2.56	132.4	80	82	65	6.90	3140
40FFS187UN	40FFS187UN143	-	1 ½	-	-				1 ½ 12f UN		1	5.21	3.15	3.23	2.56	132.4	80	82	65	6.90	3140
50FFS200	50FFS200143	-	2	-	-	2 11,5f					1	6.17	3.94	3.48	3.15	156.6	100	88.5	80	11.21	5100
50FFS200BS	50FFS200BS143	-	2	-	-		2-11				1	6.17	3.94	3.48	3.15	156.6	100	88.5	80	11.21	5100
50FFS250UN	50FFS250UN143	-	2	-	-				2 ½ 12f UN		1	6.17	3.94	3.48	3.15	156.6	100	88.5	80	11.21	5100

* 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

ISO 16028 Interchange Steel



Sockets(Female)

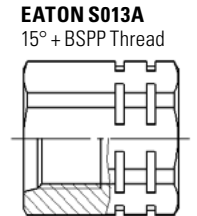
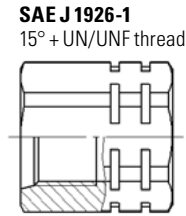
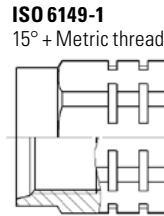
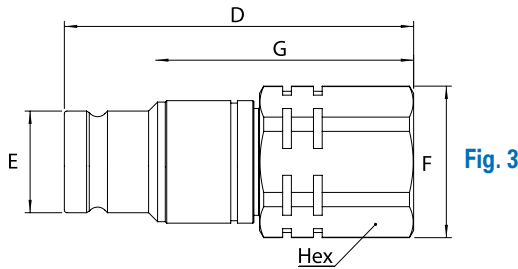
Part Number			Body Size	ISO Size	Nominal Flow Diameter	Thread Size*(Male)	Fig.	Dimensions							Weight					
NBR+AU	FKM	EPDM	(in)	(mm)	(mm)	ISO 8434-1	SAE J 1926-2	A (in)	B (in)	C (in)	H (in.)	Hex (in)	A (mm)	B (mm)	C (mm)	H (mm)	Hex (mm)	lbs	grams	
6FFS10LBH	6FFS10LBH143	6FFS10LBH192	¼	6.3	6	10L - M16x1,5 + bulkhead		2	1.65	1.06	0.94	1.38	0.87	42	27	24	35	22	-	-
10FFS8L	10FFS8L143	10FFS8L192	¾	10	6	8L - M14x1,5		2	2.18	1.26	1.16	0.39	1.06	55.3	32	29.5	10	27	0.44	200
10FFS10L	10FFS10L143	10FFS10L192	¾	10	8	10L - M16x1,5		2	2.18	1.26	1.16	0.43	1.06	55.3	32	29.5	11	27	0.45	204
10FFS12L	10FFS12L143	10FFS12L192	¾	10	10	12L - M18x1,5		2	2.12	1.26	1.16	0.43	1.06	53.8	32	29.5	11	27	-	-
10FFS15L	10FFS15L143	10FFS15L192	¾	10	8,6	15L - M22x1,5		2	2.08	1.26	1.16	0.47	1.06	52.8	32	29.5	12	27	-	-
10FFS15LBH	10FFS15LBH143	10FFS15LBH192	¾	10	8,6	15L - M22x1,5		2	3.24	1.26	1.16	1.50	1.06	82.3	32	29.5	38	27	0.49	225
10FFS16S	10FFS16S143	10FFS16S192	¾	10	8,6	16S - M24x1,5 + bulkhead		2	2.26	1.26	1.16	0.55	1.06	57.3	32	29.5	14	27	0.46	211
10FFS56ORM	10FFS56ORM143	10FFS56ORM192	¾	10	8,6		¾ 18f UNF	2	2.61	1.26	1.06	0.47	0.94	66.4	32	27	12	23.8	-	-
10FFS75ORM	10FFS75ORM143	10FFS75ORM192	¾	10	8,6		¾ 16f UNF	2	2.61	1.26	1.06	0.55	0.94	66.4	32	27	14	23.8	-	-
12FFS15LBH	12FFS15LBH143	12FFS15LBH192	½	12	11	15L - M22x1,5 + bulkhead		2	3.66	1.50	1.56	1.50	1.42	93	38.2	39.5	38	36	1.05	478
12FFS16S	12FFS16S143	12FFS16S192	½	12	11	16S - M24x1,5		2	2.75	1.50	1.56	0.55	1.42	70	38.2	39.5	14	36	1.01	460
12FFS18LBH	12FFS18LBH143	12FFS18LBH192	½	12	11	18L - M26x1,5 + bulkhead		2	3.74	1.50	1.56	1.57	1.42	95	38.2	39.5	40	36	1.17	534
16FFS15LBH	16FFS15LBH143	16FFS15LBH192	¾	16	12	15L - M22x1,5 + bulkhead		2	2.68	1.66	1.56	1.50	1.42	68	42.2	39.5	38	36	-	-
16FFS16S	16FFS16S143	16FFS16S192	¾	16	12	16S - M24x1,5		2	2.75	1.66	1.56	0.55	1.42	70	42.2	39.5	14	36	1.11	505
16FFS18LBH	16FFS18LBH143	16FFS18LBH192	¾	16	13	18L - M26x1,5 + bulkhead		2	2.68	1.66	1.56	1.57	1.42	68	42.2	39.5	40	36	-	-

* 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 ISO 16028 Interchange Steel



Plugs(Male)

Part Number	NBR+AU	FKM	EPDM	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Thread Size*(Female)				Dimensions								Weight				
							NPT	BSPP	ISO 6149-1	SAE J 1926-1	Eaton S013A	Fig.	D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs
6FFP25	6FFP25143	6FFP25192	¼	6.3	6	¼ 18f					3	2.01	0.64	0.94	1.58	0.87	51	16.2	24	40.1	22	-	-
6FFP25BS	6FFP25BS143	6FFP25BS192	¼	6.3	6	¼ -19					3	2.01	0.64	0.94	1.58	0.87	51	16.2	24	40.1	22	-	-
6FFP25FG	6FFP25FG143	6FFP25FG192	¼	6.3	6					G ¼	3	2.01	0.64	0.94	1.58	0.87	51	16.2	24	40.1	22	0.20	90
6FFP56UN	6FFP56UN143	6FFP56UN192	¼	6.3	6				¾ 18f UNF		3	2.05	0.64	0.94	1.62	0.87	52	16.2	24	41.1	22	-	-
10FFP16FMET	10FFP16FMET143	10FFP16FMET192	¾	10	8.6			M16x1,5			3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	-	-
10FFP37	10FFP37143	10FFP37192	¾	10	8.6	¾ 18f					3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	-	-
10FFP37BS	10FFP37BS143	10FFP37BS192	¾	10	8.6	¾ -19					3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	-	-
10FFP37FG	10FFP37FG143	10FFP37FG192	¾	10	8.6				G ¾		3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	0.33	152
10FFP50	10FFP50143	10FFP50192	¾	10	8.6	½ 14f					3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	-	-
10FFP50BS	10FFP50BS143	10FFP50BS192	¾	10	8.6	½ -14					3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	-	-
10FFP50FG	10FFP50FG143	10FFP50FG192	¾	10	8.6				G ½		3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	0.32	144
10FFP56UN	10FFP56UN143	10FFP56UN192	¾	10	8.6				¾ 18f UNF		3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	-	-
10FFP75UN	10FFP75UN143	10FFP75UN192	¾	10	8.6				¾ 16f UNF		3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	-	-
10FFP87UN	10FFP87UN143	10FFP87UN192	¾	10	8.6				¾ 14f UNF		3	2.80	0.78	1.30	2.19	1.18	71	19.7	33	55.7	30	-	-
12FFP106UN	12FFP106UN143	12FFP106UN192	½	12.5	11				1 ½ 12f UN		3	2.95	0.96	1.56	2.28	1.42	75	24.5	39.5	58	36	-	-
12FFP50	12FFP50143	12FFP50192	½	12.5	11	½ 14f					3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	-	-
12FFP50BS	12FFP50BS143	12FFP50BS192	½	12.5	11	½ -14					3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	-	-
12FFP50FG	12FFP50FG143	12FFP50FG192	½	12.5	11				G ½		3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	0.64	290
12FFP75	12FFP75143	12FFP75192	½	12.5	11	¾ 14f					3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	-	-
12FFP75BS	12FFP75BS143	12FFP75BS192	½	12.5	11	¾ -14					3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	-	-
12FFP75FG	12FFP75FG143	12FFP75FG192	½	12.5	11				G ¾		3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	0.61	279
12FFP75UN	12FFP75UN143	12FFP75UN192	½	12.5	11				¾ 16f UNF		3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	-	-
12FFP87UN	12FFP87UN143	12FFP87UN192	½	12.5	11				¾ 14f UNF		3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	-	-
16FFP106UN	16FFP106UN143	16FFP106UN192	¾	16	13				1 ½ 12f UN		3	2.95	1.06	1.56	2.28	1.42	75	27	39.5	58	36	-	-
16FFP50	16FFP50143	16FFP50192	¾	16	13	½ 14f					3	2.71	1.06	1.56	2.05	1.42	69	27	39.5	52	36	-	-
16FFP50BS	16FFP50BS143	16FFP50BS192	¾	16	13	½ -14					3	2.71	1.06	1.56	2.05	1.42	69	27	39.5	52	36	-	-
16FFP75	16FFP75143	16FFP75192	¾	16	13	¾ 14f					3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	-	-
16FFP75BS	16FFP75BS143	16FFP75BS192	¾	16	13	¾ -14					3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	-	-
16FFP75FG	16FFP75FG143	16FFP75FG192	¾	16	13				G ¾		3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	0.7	317
16FFP75UN	16FFP75UN143	16FFP75UN192	¾	16	13				¾ 16f UNF		3	2.71	1.06	1.56	2.05	1.42	69	27	39.5	52	36	-	-
16FFP87UN	16FFP87UN143	16FFP87UN192	¾	16	13				¾ 14f UNF		3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	-	-
19FFP100	19FFP100143	19FFP100192	¾	19	15	1 11,5f					3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	-	-
19FFP100BS	19FFP100BS143	19FFP100BS192	¾	19	15			1-11			3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	-	-
19FFP100FG	19FFP100FG143	19FFP100FG192	¾	19	15				G 1		3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	1.14	518
19FFP106UN	19FFP106UN143	19FFP106UN192	¾	19	15				1 ½ 12f UN		3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	-	-
19FFP131UN	19FFP131UN143	19FFP131UN192	¾	19	15				1 ½ 12f UN		3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	-	-
19FFP75	19FFP75143	19FFP75192	¾	19	15	¾ 14f					3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	-	-
19FFP75BS	19FFP75BS143	19FFP75BS192	¾	19	15	¾ -14					3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	-	-
25FFP100	25FFP100143	25FFP100192	1	25	18	1 11,5f					3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	-	-
25FFP100BS	25FFP100BS143	25FFP100BS192	1	25	18			1-11			3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	-	-
25FFP125	25FFP125143	25FFP125192	1	25	18	1 ¼ 11,5f					3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	-	-
25FFP125BS	25FFP125BS143	25FFP125BS192	1	25	18	1 ¼ -11				3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	-	-	
25FFP125FG	25FFP125FG143	25FFP125FG192	1	25	18				G 1 ¼		3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	2.08	948
25FFP131UN	25FFP131UN143	25FFP131UN192	1	25	18				1 ½ 12f UN		3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	2.09	952
25FFP162UN	25FFP162UN143	25FFP162UN192	1	25	18				1 ½ 12f UN		3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	-	-
32FFP125	32FFP125143	-	1 ¼	-	-	1 ¼ 11,5f					3	4.13	1.73	2.35	3.22	2.17	105	44	59.8	81.7	55	2.43	1105
32FFP162UN	32FFP162UN143	-	1 ¼	-	-				1 ½ 12f UN		3	4.13	1.73	2.35	3.22	2.17	105	44	59.8	81.7	55	2.43	1105
40FFP150	40FFP150143	-	1 ½	-	-	1 ½ 11,5f					3	4.37	2.25	2.75	3.25	2.56	111.1	57.1	69.8	82.5	65	3.66	1665
40FFP150BS	40FFP150BS143	-	1 ½	-	-	1 ½ -11					3	4.37	2.25	2.75	3.25	2.56	111.1	57.1	69.8	82.5	65	3.66	1665
40FFP150FG	40FFP150FG143	-	1 ½	-	-				G 1 ½		3	4.37	2.25	2.75	3.25	2.56	111.1	57.1	69.8	82.5	65	3.66	1665
40FFP187UN	40FFP187UN143	-	1 ½	-	-				1 ½ 12f UN		3	4.37	2.25	2.75	3.25	2.56	111.1	57.1	69.8	82.5	65	3.66	1665
50FFP200	50FFP200143	-	2	-	-	2 11,5f					3	4.87	2.87	3.29	3.34	2.95	123.8	72.9	83.5	84.9	75	4.96	2259
50FFP200BS	50FFP200BS143	-	2	-	-			2-11			3	4.87	2.87	3.29	3.34	2.95	123.8	72.9	83.5	84.9	75	4.96	2259
50FFP250UN	50FFP250UN143	-	2	-	-				2 ½ 12f UN		3	4.87	2.87	3.29	3.34	2.95	123.8	72.9	83.5	84.9	75	4.96	2259

* 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 ISO 16028 Interchange Steel

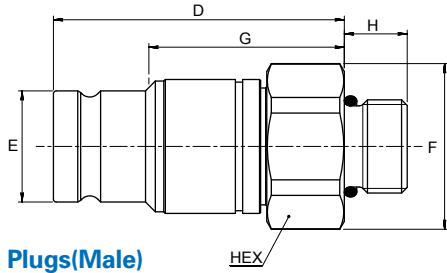
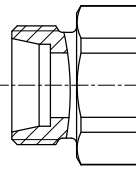
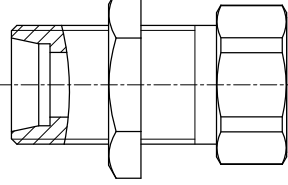


Fig. 4

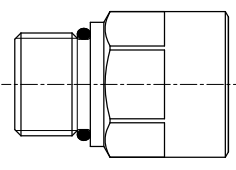
ISO 8434-1
Metric thread



ISO 8434-1 + Bulkhead
Metric thread



SAE J 1926-2
UN/UNF thread



Plugs(Male)

Part Number	NBR+AU	FKM	EPDM	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Thread Size*(Male)		Dimensions											Weight	
							ISO 8434-1	SAE J 1926-2	Fig. D (in)	E (in)	F (in)	G (in.)	H (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Hex (mm)	lbs
6FFP10LBH	6FFP10LBH143	6FFP10LBH192	1/4	6.3	6	M10L - M16x1,5 + bulkhead	4	1.54	0.64	0.94	1.11	1.38	0.87	39	16.2	24	28.1	35	22	0.27	123
10FFP8L	10FFP8L143	10FFP8L192	3/8	10	6	8L - M14x1,5	4	2.44	0.78	1.16	1.84	0.39	1.06	62	19.7	29.5	46.7	10	27	0.25	112
10FFP10L	10FFP10L143	10FFP10L192	3/8	10	8	10L - M16x1,5	4	2.44	0.78	1.16	1.84	0.43	1.06	62	19.7	29.5	46.7	11	27	0.25	116
10FFP12L	10FFP12L143	10FFP12L192	3/8	10	10	12L - M18x1,5	4	2.01	0.78	1.16	1.41	0.43	1.06	51	19.7	29.5	35.7	11	27	0.26	117
10FFP15L	10FFP15L143	10FFP15L192	3/8	10	8,6	5L - M22x1,5	4	2.44	0.78	1.16	1.84	0.47	1.06	62	19.7	29.5	46.7	12	27	0.27	123
10FFP15LBH	10FFP15LBH143	10FFP15LBH192	3/8	10	8,6	15L - M22x1,5 + bulkhead	4	3.5	0.78	1.16	2.9	1.50	1.06	89	19.7	29.5	73.7	38	27	0.30	137
10FFP16S	10FFP16S143	10FFP16S192	3/8	10	8,6	16S - M24x1,5	4	2.52	0.78	1.16	1.92	0.55	1.06	64	19.7	29.5	48.7	14	27	0.27	123
10FFP56ORM	10FFP56ORM143	10FFP56ORM192	3/8	10	8,6	5/16 18f UNF	4	2.5	0.78	1.06	1.9	0.47	0.94	63.6	19.7	27	48.3	12	23.8	0.33	150
10FFP75ORM	10FFP75ORM143	10FFP75ORM192	3/8	10	8,6	3/8 16f UNF	4	2.	0.78	1.06	1.	0.55	0.94	63.6	19.7	27	48.3	14	23.8	0.34	156
12FFP15LBH	12FFP15LBH143	12FFP15LBH192	1/2	12	11	15L - M22x1,5 + bulkhead	4	3.62	0.96	1.56	2.95	1.	1.42	92	24.5	39.5	75	38	36	0.65	297
12FFP16S	12FFP16S143	12FFP16S192	1/2	12	11	16S - M24x1,5	4	2.71	0.96	1.56	2.05	0.55	1.42	69	24.5	39.5	52	14	36	0.61	279
12FFP18LBH	12FFP18LBH143	12FFP18LBH192	1/2	12	11	18L - M26x1,5 + bulkhead	4	3.70	0.96	1.56	3.03	1.57	1.42	94	24.5	39.5	77	40	36	0.78	353
16FFP15LBH	16FFP15LBH143	16FFP15LBH192	3/4	16	12	15L - M22x1,5 + bulkhead	4	2.12	1.06	1.56	1.45	1.5	1.42	54	27	39.5	37	38	36	0.65	298
16FFP16S	16FFP16S143	16FFP16S192	3/4	16	12	16S - M24x1,5	4	2.71	1.06	1.56	2.05	0.55	1.42	69	27	39.5	52	14	36	0.62	280
16FFP18LBH	16FFP18LBH143	16FFP18LBH192	3/4	16	13	18L - M26x1,5 + bulkhead	4	2.12	1.06	1.56	1.45	1.57	1.42	54	27	39.5	37	40	36	0.78	353

*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 (in)	Part Number	Coupling Type	Dust Plug Material
1/4	SDC6FF	Socket/Female	PVC
3/8	SDC10FF	Socket/Female	PVC
1/2	SDC12FF	Socket/Female	PVC
3/4	SDC16FF	Socket/Female	PVC
3/4	SDC19FF	Socket/Female	PVC
1	SDC25FF	Socket/Female	PVC
1 1/2	ASDC40FF	Socket/Female	DURAL
2	ASDC50FF	Socket/Female	DURAL

Plug (Male) Dust Cap

Body Size (in)	Part Number	Coupling Type	Dust Plug Material
1/4	PDC6FF	Plug/Male	PVC
3/8	PDC10FF	Plug/Male	PVC
1/2	PDC12FF	Plug/Male	PVC
3/4	PDC16FF	Plug/Male	PVC
3/4	PDC19FF	Plug/Male	PVC
1	PDC25FF	Plug/Male	PVC
1 1/2	APDC40FF	Plug/Male	DURAL
2	APDC50FF	Plug/Male	DURAL



Color Coding Ring Option*

Body Size (in)	ISO Size (mm)	Size	Socket/Female Ring Part Number**				Plug/Male Ring Part Number**				Tool Part Number	Tool & Rings Kit Part Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
3/8	10	10FF	CR10FFSLB	CR10FFSRD	CR10FFSYL	CR10FFSDG	CR10FFPLB	CR10FFPRD	CR10FFPYL	CR10FFPDG	CR10FFSP93	CRKIT10FF
1/2	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF
3/4	16	16FF	CR16FFSLB	CR16FFSRD	CR16FFSYL	CR16FFSDG	CR16FFPLB	CR16FFPRD	CR16FFPYL	CR16FFPDG	CR16FFSP93	CRKIT16FF
3/4	19	19FF	CR19FFSLB	CR19FFSRD	CR19FFSYL	CR19FFSDG	CR19FFPLB	CR19FFPRD	CR19FFPYL	CR19FFPDG	CR19FFSP93	CRKIT19FF

* For requests on alternative colors or installation instructions, please contact your Eaton 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



The Eaton 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 Eaton 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 3.3 of the European Pressure Equipment Directive (PED) 97/23 EC
- 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 body material – High resistance carbon steel with zinc trivalent plating
- 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)	L/min	(gpm)	ml-cc.	ml-cc.	N	lbf
3/8	10	8.6	350	5075	1400	20300	29.4	7.76	0.010	0.006	350	79

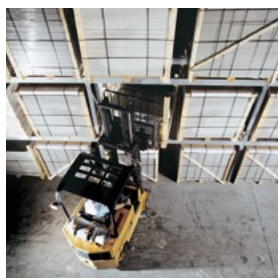
* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard)

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

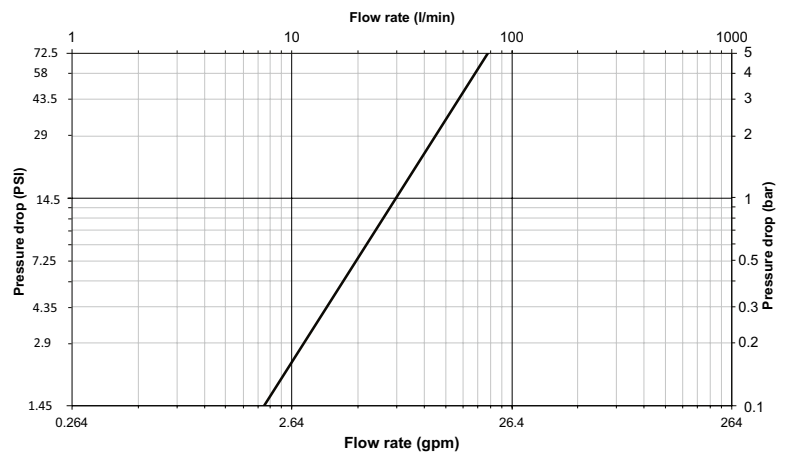
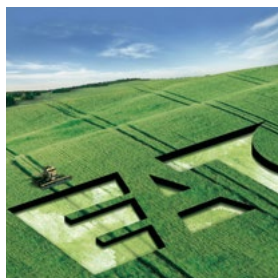
Connect Under Pressure Operating Guidelines

- 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.

Applications & Markets



- Connection to hydraulic pumps, jacks, distributors and accessories
- Hydraulic circuits
- Material handling
- Construction
- Agriculture
- Iron and steel industry
- Railway
- Industrial plants



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 Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility

FFCUP Series

ISO 16028 Connect Under Pressure Flat Face Plug/Male

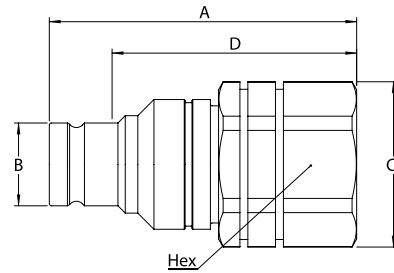


Fig. 1

Plugs (Male)

Part Number	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Thread Size* (Female)		Fig.	Dimensions										Weight	
				NPT	BSPP		A (in)	B (in)	C (in)	D (in)	Hex (in)	A (mm)	B (mm)	C (mm)	D (mm)	Hex (mm)	lbs	grams
10FFPCUP37	¾	10	8.6	¾-18	-	1	2.89	0.74	1.55	2.28	1.41	73.5	18.7	39.5	58.0	36	0.69	314
10FFPCUP37BS				-	¾-19	1	2.89	0.74	1.55	2.28	1.41	73.5	18.7	39.5	58.0	36	0.69	314
10FFPCUP50				-	½-14	1	2.89	0.74	1.55	2.28	1.41	73.5	18.7	39.5	58.0	36	0.66	300
10FFPCUP50BS				-	½-14	1	2.89	0.74	1.55	2.28	1.41	73.5	18.7	39.5	58.0	36	0.66	300

* Alternative end connections available upon request.

Colour Coding Ring Option*

Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Plug/Male Ring Part Number**				Tool Part Number
			Blue	Red	Yellow	Green	
¾	10	8.6	CR10FFPLB	CR12FFPRD	CR10FFPYL	CR10FFPDG	CR10FFSP93

* For requests on alternative colours or installation instructions, please contact your Eaton sales representative.

** Orders must be in multiples of 10 pcs.

MLFF Series

ISO 16028 Stainless Steel Flat Face/Dry Break



The Eaton 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.

Product Features

- Designed and manufactured under Article 3.3 of the European Pressure Equipment Directive (PED) 97/23 EC
- 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 25FF 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
- Alternative end connections available upon request
- Standard seal material: FKM, EPDM, NBR+AU

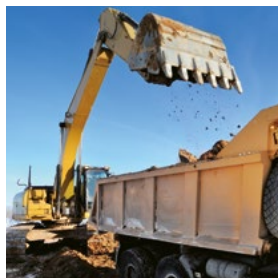
Physical Characteristics

ISO Size* (mm)	Coupling Size (in)	Maximum Operating Pressure						Minimum Burst Pressure						Rated Flow** L/min. (gpm)	Fluid Loss ml-cc.	Air Inclusion ml-cc.	Force to Connect		
		Connected	Plug/ Male Half	Socket/ Female Half	Connected	Plug/ Male Half	Socket/ Female Half	Connected	Plug/ Male Half	Socket/ Female Half	N	Lbs							
6.3	¼	250	3625	250	3625	250	3625	2335	33858	1640	23780	1330	19285	17	4.49	0.004	0.007	80	18.0
10	¾	250	3625	250	3625	250	3625	1672	24244	1664	24128	845	12253	29	7.66	0.006	0.010	140	31.5
12	½	250	3625	250	3625	250	3625	1679	24346	997	14457	993	14399	55	14.53	0.012	0.013	195	43.8
16	¾	250	3625	250	3625	250	3625	1190	17255	950	13775	880	12760	67	17.70	0.016	0.030	205	46.1
19	¾	250	3625	250	3625	250	3625	1370	19865	882	12789	845	12253	105	27.74	0.034	0.015	215	48.3
25	1	250	3625	250	3625	250	3625	1690	24505	1000	14500	850	12325	177	46.76	0.032	0.033	260	58.5
-	1½	230	3335	230	3335	80	1160	800	11600	700	10150	320	4640	270	71.32	0.050	-	580	130.4
-	2	150	2175	150	2175	70	1015	600	8700	600	8700	280	4060	420	110.96	0.100	-	490	110.2

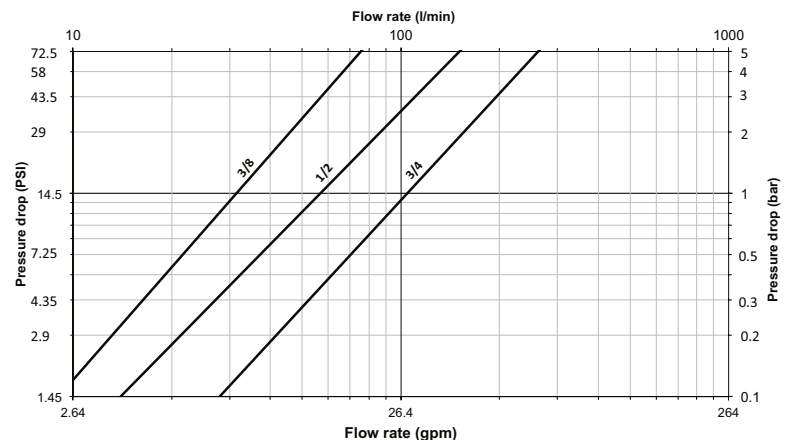
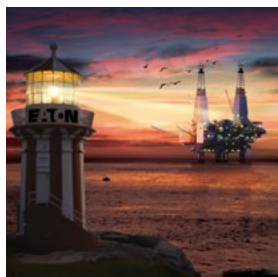
* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard)

** 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



Test Fluid: Oil viscosity 30 cSt at 40°C/104°F

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 (Fluorocarbon)	-143	-20°C +200°C/-4°F +392°F	-15°C +180°C/+5°F +356°F
EPDM (Ethylene-Propylene)	-192	-40°C +150°C/-40°F +302°F	on request

*For reference only, based on Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility.

MLFF Series

ISO 16028 Stainless Steel Flat Face/Dry Break

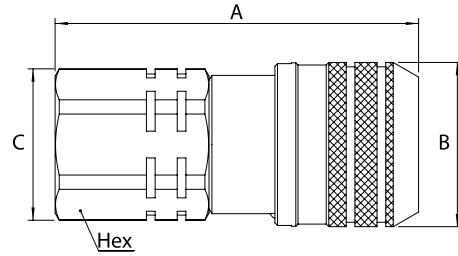


Fig. 1

Sockets(Female)

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size*(Female)	Dimensions	Weight												
NBR+AU	FKM	EPDM	(in)	(mm)	(mm)	NPT	BSP	Fig.	A (in)	B (in)	C (in)	Hex (in)	A (mm)	B (mm)	C (mm)	Hex (mm)	lbs	grams
ML6FFS25	ML6FFS25143	ML6FFS25192	3/4	6.3	6	-	-	1	2.13	1.06	0.94	0.87	54	27	24	22	0.30	135
ML6FFS25BS	ML6FFS25BS143	ML6FFS25BS192	3/4	6.3	6	-	-	1	2.13	1.06	0.94	0.87	54	27	24	22	0.30	135
ML10FFS37	ML10FFS37143	ML10FFS37192	3/8	10	8.6	3/8-18	-	1	2.68	1.26	1.16	1.06	68	32	29.5	27	0.54	245
ML10FFS37BS	ML10FFS37BS143	ML10FFS37BS192	3/8	10	8.6	-	3/8-19	1	2.68	1.26	1.16	1.06	68	32	29.5	27	0.54	245
ML10FFS50BS	ML10FFS50BS143	ML10FFS50BS192	3/8	10	8.6	-	1/2-14	1	2.80	1.26	1.16	1.06	71	32	29.5	27	0.53	240
ML12FFS50	ML12FFS50143	ML12FFS50192	1/2	12.5	11	1/2-14	-	1	3.27	1.50	1.56	1.42	83	38	39.5	36	1.03	470
ML12FFS50BS	ML12FFS50BS143	ML12FFS50BS192	1/2	12.5	11	-	1/2-14	1	3.27	1.50	1.56	1.42	83	38	39.5	36	1.03	470
ML12FFS75BS	ML12FFS75BS143	ML12FFS75BS192	1/2	12.5	11	-	3/4-14	1	3.39	1.50	1.56	1.42	86	38	39.5	36	1.01	460
ML16FFS75	ML16FFS75143	ML16FFS75192	3/4	16	13	3/4-14	-	1	3.39	1.66	1.56	1.42	86	42	39.5	36	1.21	550
ML16FFS75BS	ML16FFS75BS143	ML16FFS75BS192	3/4	16	13	-	3/4-14	1	3.39	1.66	1.56	1.42	86	42	39.5	36	1.21	550
ML19FFS75	ML19FFS75143	ML19FFS75192	3/4	19	15	3/4-14	-	1	3.82	1.81	1.77	1.61	97	46	45	41	1.69	770
ML19FFS75BS	ML19FFS75BS143	ML19FFS75BS192	3/4	19	15	-	3/4-14	1	3.82	1.81	1.77	1.61	97	46	45	41	1.69	770
ML19FFS100	ML19FFS100143	ML19FFS100192	3/4	19	15	1-11.5	-	1	3.80	1.82	1.77	1.61	97	46	45	41	1.56	710
ML19FFS100BS	ML19FFS100BS143	ML19FFS100BS192	3/4	19	15	-	1-11	1	3.82	1.81	1.77	1.61	97	46	45	41	1.56	710
ML25FFS100BS	ML25FFS100BS143	ML25FFS100BS192	1	25	18	-	1-11	1	4.07	2.36	2.36	2.17	104	60	60	55	2.83	1290
ML25FFS125	ML25FFS125143	ML25FFS125192	1	25	18	1 1/4-11.5	-	1	4.07	2.36	2.36	2.17	104	60	60	55	2.83	1290
-	ML40FFS150143	-	1 1/2	-	-	1 1/2-11.5	-	1	5.21	3.15	2.83	2.56	132	80	72	65	6.39	2910
-	ML50FFS200143	-	2	-	-	2-11	-	1	6.17	3.94	3.48	3.15	157	100	88.5	80	11.49	5230

* Alternative end connections available upon request.
To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

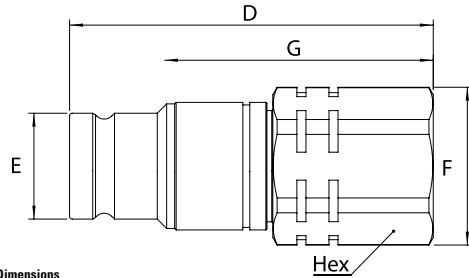


Fig. 2

Plugs(Male)

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size*(Female)	Dimensions	Weight														
NBR+AU	FKM	EPDM	(in)	(mm)	(mm)	NPT	BSP	Fig.	D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
ML6FFP25	ML6FFP25143	ML6FFP25192	3/4	6.3	6	3/4-18	-	2	2.01	0.46	0.94	1.58	0.87	51	11.6	24	40.1	22	0.20	90
ML6FFP25BS	ML6FFP25BS143	ML6FFP25BS192	3/4	6.3	6	-	3/4-19	2	2.01	0.46	0.94	1.58	0.87	51	11.6	24	40.1	22	0.20	90
ML10FFP37	ML10FFP37143	ML10FFP37192	3/8	10	8.6	3/8-18	-	2	2.56	0.78	1.16	1.97	1.06	65	19.7	29.5	50	27	0.33	150
ML10FFP37BS	ML10FFP37BS143	ML10FFP37BS192	3/8	10	8.6	-	3/8-19	2	2.56	0.78	1.16	1.97	1.06	65	19.7	29.5	50	27	0.33	150
ML10FFP50BS	ML10FFP50BS143	ML10FFP50BS192	3/8	10	8.6	-	1/2-14	2	2.68	0.78	1.16	2.09	1.06	68	19.7	29.5	53	27	0.33	150
ML12FFP50	ML12FFP50143	ML12FFP50192	1/2	12.5	11	1/2-14	-	2	2.72	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	0.61	275
ML12FFP50BS	ML12FFP50BS143	ML12FFP50BS192	1/2	12.5	11	-	1/2-14	2	2.72	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	0.64	290
ML12FFP75BS	ML12FFP75BS143	ML12FFP75BS192	1/2	12.5	11	-	3/4-14	2	2.83	0.96	1.56	2.17	1.42	72	24.5	39.5	55	36	0.61	275
ML16FFP75	ML16FFP75143	ML16FFP75192	3/4	16	13	3/4-14	-	2	2.83	1.06	1.56	1.42	1.42	72	27	39.5	36	36	0.69	315
ML16FFP75BS	ML16FFP75BS143	ML16FFP75BS192	3/4	16	13	-	3/4-14	2	2.83	1.06	1.56	1.42	1.42	72	27	39.5	36	36	0.69	315
ML19FFP75	ML19FFP75143	ML19FFP75192	3/4	19	15	3/4-14	-	2	3.70	1.18	1.77	2.83	1.61	94	29.9	45	72	41	1.28	580
ML19FFP75BS	ML19FFP75BS143	ML19FFP75BS192	3/4	19	15	-	3/4-14	2	3.70	1.18	1.77	2.83	1.61	94	29.9	45	72	41	1.28	580
ML19FFP100	ML19FFP100143	ML19FFP100192	3/4	19	15	1-11.5	-	2	3.70	1.18	1.77	2.83	1.61	94	29.9	45	72	41	1.13	515
ML19FFP100BS	ML19FFP100BS143	ML19FFP100BS192	3/4	19	15	-	1-11	2	3.70	1.18	1.77	2.83	1.61	94	29.9	45	72	41	1.12	510
ML25FFP100BS	ML25FFP100BS143	ML25FFP100BS192	1	25	18	-	1-11	2	4.12	1.42	2.36	2.17	2.17	104.6	36	60	55	55	2.37	1080
ML25FFP125	ML25FFP125143	ML25FFP125192	1	25	18	1 1/4-11.5	-	2	4.12	1.42	2.36	2.17	2.17	104.6	36	60	55	55	2.37	1080
-	ML40FFP150143	-	1 1/2	-	-	1 1/2-11.5	-	2	4.37	2.25	2.99	2.76	2.76	111	57.1	76	70	70	4.15	1890
-	ML50FFP200143	-	2	-	-	2-11	-	2	4.87	2.87	3.29	2.95	2.95	123.8	72.9	83.5	75	75	5.03	2290

* 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 Number**				Plug/Male Ring Part Number**				Tool Part Number	Tool & Rings Kit Part Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
3/8	10	ML10FF	CR10FFSLB	CR10FFSRD	CR10FFSYL	CR10FFSDG	CR10FFPLB	CR10FFPRD	CR10FFPYL	CR10FFPDG	CR10FFSP93	CRKIT10FF
1/2	12.5	ML12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF
3/4	16	ML16FF	CR16FFSLB	CR16FFSRD	CR16FFSYL	CR16FFSDG	CR16FFPLB	CR16FFPRD	CR16FFPYL	CR16FFPDG	CR16FFSP93	CRKIT16FF
1	19	ML19FF	CR19FFSLB	CR19FFSRD	CR19FFSYL	CR19FFSDG	CR19FFPLB	CR19FFPRD	CR19FFPYL	CR19FFPDG	CR19FFSP93	CRKIT19FF

* For requests on alternative colors or installation instructions, please contact your Eaton 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.



MLDB Series

Stainless Steel Flat Face/Dry Break



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

Product Features

- Designed and manufactured in accordance with Article 3.3 of the European Pressure Equipment Directive (PED) 97/23 EC
- Safety sleeve lock prevents accidental disconnections
- Push to connect with double shut-off valving
- Capable of working under high temperature applications
- Shock resistant colour 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

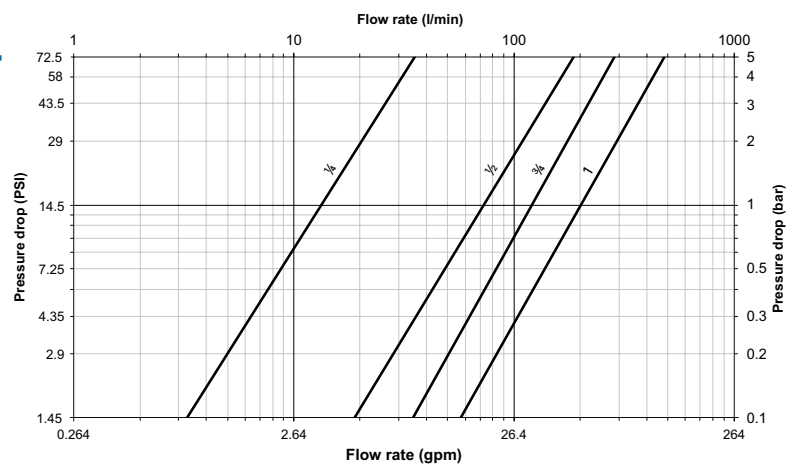
Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Rated* Flow		Air Inclusion	Fluid Loss	Force to Connect	
		bar	(psi)	L/min	(gpm)	ml-cc.	ml-cc.	N	lbf
1/4	5.9	25	360	15	4	0.002	0.001	85	19
1/2	11.5	25	360	73	19	0.012	0.025	150	34
3/4	15.0	25	360	120	32	0.030	0.050	170	38
1	18.5	25	360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



Test Fluid: Oil viscosity 30 cSt at 40°C/104°F
The former DB series interchanges with the new MLDB series, however close attention is requested to the differences in performance. Eaton recommends to connect an MLDB plug(male) with an MLDB socket(female).

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
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 Eaton recommended temperatures. Contact Eaton technical support for further information on fluid compatibility

MLDB Series Stainless Steel Flat Face/Dry Break

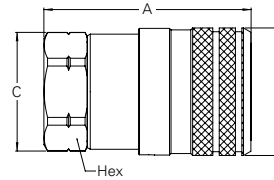


Fig. 1

Sockets (Female)

Part Number				Body Size	Thread Size* (Female)			Fig.	Dimensions								Weight	
FKM	EPDM	Kalrez® 6375	Generic FFKM	(in)	NPT	BSPB	A (in)		B (in)	C (in)	Hex (in)	A (mm)	B (mm)	C (mm)	Hex (mm)	lbs	grams	
ML2DBS25FBS	ML2DBS25FBS292	ML2DBS25FBS242	ML2DBS25FBS503	¼	-	¼-19	1	1.79	1.06	0.96	0.87	45.4	26.8	24.5	22	0.26	116	
ML2DBS25F	ML2DBS25F292	ML2DBS25F242	ML2DBS25F503	¼	¼-18	-	1	1.73	1.06	0.96	0.87	43.9	26.8	24.5	22	0.26	116	
ML4DBS50FBS	ML4DBS50FBS292	ML4DBS50FBS242	ML4DBS50FBS503	½	-	½-14	1	2.44	1.50	1.4	1.26	61.9	38.2	35.5	32	0.73	330	
ML4DBS50F	ML4DBS50F292	ML4DBS50F242	ML4DBS50F503	½	½-14	-	1	2.44	1.50	1.4	1.26	61.9	38.2	35.5	32	0.73	330	
ML6DBS75FBS	ML6DBS75FBS292	ML6DBS75FBS242	ML6DBS75FBS503	¾	-	¾-14	1	3.02	1.89	1.83	1.61	76.8	47.9	46.5	41	1.34	610	
ML6DBS75F	ML6DBS75F292	ML6DBS75F242	ML6DBS75F503	¾	¾-14	-	1	3.02	1.89	1.83	1.61	76.8	47.9	46.5	41	1.34	610	
ML8DBS100FBS	ML8DBS100FBS292	ML8DBS100FBS242	ML8DBS100FBS503	1	-	1-11	1	3.54	2.26	2.16	1.97	89.9	57.4	54.9	50	2.31	1050	
ML8DBS100F	ML8DBS100F292	ML8DBS100F242	ML8DBS100F503	1	1-11½	-	1	3.42	2.26	2.16	1.97	86.9	57.4	54.9	50	2.31	1050	

* Alternative end connections available upon request.

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

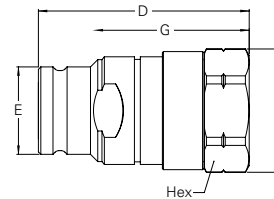


Fig. 2

Plugs (Male)

Part Number				Body Size	Thread Size* (Female)			Fig.	Dimensions								Weight		
FKM	EPDM	Kalrez® 6375	Generic FFKM	(in)	NPT	BSPB	D (in)		E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
ML2DBP25FBS	ML2DBP25FBS292	ML2DBP25FBS242	ML2DBP25FBS503	¼	-	¼-19	2	1.72	0.65	0.96	1.31	0.87	43.6	16.5	24.5	33.2	22	0.17	78
ML2DBP25F	ML2DBP25F292	ML2DBP25F242	ML2DBP25F503	¼	¼-18	-	2	1.66	0.65	0.96	1.25	0.87	42.1	16.5	24.5	31.7	22	0.17	78
ML4DBP50FBS	ML4DBP50FBS292	ML4DBP50FBS242	ML4DBP50FBS503	½	-	½-14	2	2.39	0.99	1.4	1.8	1.26	60.7	25.2	35.5	45.7	32	0.46	210
ML4DBP50F	ML4DBP50F292	ML4DBP50F242	ML4DBP50F503	½	½-14	-	2	2.39	0.99	1.4	1.8	1.26	60.7	25.2	35.5	45.7	32	0.46	210
ML6DBP75FBS	ML6DBP75FBS292	ML6DBP75FBS242	ML6DBP75FBS503	¾	-	¾-14	2	2.97	1.29	1.83	2.11	1.61	75.5	32.8	46.5	53.6	41	0.87	395
ML6DBP75F	ML6DBP75F292	ML6DBP75F242	ML6DBP75F503	¾	¾-14	-	2	2.97	1.29	1.83	2.11	1.61	75.5	32.8	46.5	53.6	41	0.87	395
ML8DBP100FBS	ML8DBP100FBS292	ML8DBP100FBS242	ML8DBP100FBS503	1	-	1-11	2	3.52	1.59	2.16	2.60	1.97	89.4	40.4	54.9	66.1	50	1.54	700
ML8DBP100F	ML8DBP100F292	ML8DBP100F242	ML8DBP100F503	1	1-11½	-	2	3.4	1.59	2.16	2.48	1.97	86.4	40.4	54.9	63.1	50	1.54	700

For installation instructions, please contact your Eaton sales representative.

Seal Kit and Tool for Servicing Sockets (Female)

Body Size	Tool Part Number	Seal Kit Part Number (includes 5 sets)		Seal Kit Part Number (includes 1 set)	
		FKM	EPDM	Kalrez® 6375	Generic FFKM
¼	ML2DBS93	2DBSG143	2DBSG292	2DBSG242	2DBSG503
½	ML4DBS93	4DBSG143	4DBSG292	4DBSG242	4DBSG503
¾	ML6DBS93	6DBSG143	6DBSG292	6DBSG242	6DBSG503
1	ML8DBS93	8DBSG143	8DBSG292	8DBSG242	8DBSG503

For installation instructions, please contact your Eaton sales representative.

Seal Kit for Servicing Plugs (Male)

Body Size	Seal Kit Part Number (includes 5 sets)		Seal Kit Part Number (includes 1 set)	
	FKM	EPDM	Kalrez® 6375	Generic FFKM
¼	2DBPG143	2DBPG292	2DBPG242	2DBPG503
½	4DBPG143	4DBPG292	4DBPG242	4DBPG503
¾	6DBPG143	6DBPG292	6DBPG242	6DBPG503
1	8DBPG143	8DBPG292	8DBPG242	8DBPG503

For installation instructions, please contact your Eaton sales representative. No tool required for servicing of the plug (male).

Colour Coding Ring Option*

Body Size	Socket/Female Ring** Colour	Part Number	Plug/Male Ring** Colour	Part Number	Tool Part Number	Tool & Rings Kit Part Number***
½	Blue	CR12FFSLB	Blue	CR12FFPLB	CR4DBSP93	CRKIT4DB
	Red	CR12FFSRD	Red	CR12FFPRD		
	Yellow	CR12FFSYL	Yellow	CR12FFPYL		
	Green	CR12FFSDG	Green	CR12FFPDG		

* For requests on other sizes, alternative colours or installation instructions, please contact your Eaton 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 colour.

IA Series

ISO 7241/1 A Interchange



The IA Series meets ISO 7241-1 A Standard requirements and has a push-pull design, which allows the socket to be bulk-head-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-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
- Designed and manufactured in accordance with Article 3.3 of the European Pressure Equipment Directive (PED) 97/23 EC.
- Meets dimensional requirements of ISO Standard 7241/1 Series A.
- 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 (in)	ISO Size*	Nominal Flow Diameter (mm)	Max. Operating Pressure		Rated Flow**		Fluid Loss ml-cc.
			bar	(psi)	L/min	(gpm)	
1/2	12.5	6 8 10 10.3	250	3625	45	11.9	2.6

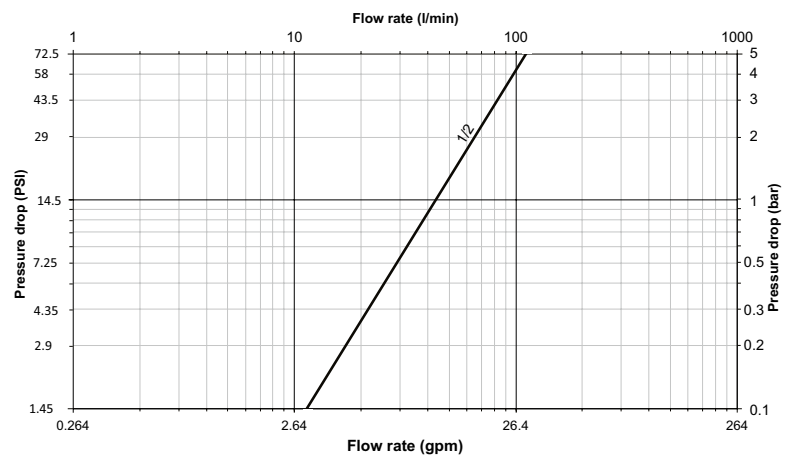
* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).

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

Applications & Markets



- Agriculture
- Forestry machinery



Test Fluid: Oil viscosity 30 cSt at 40°C / 104°F

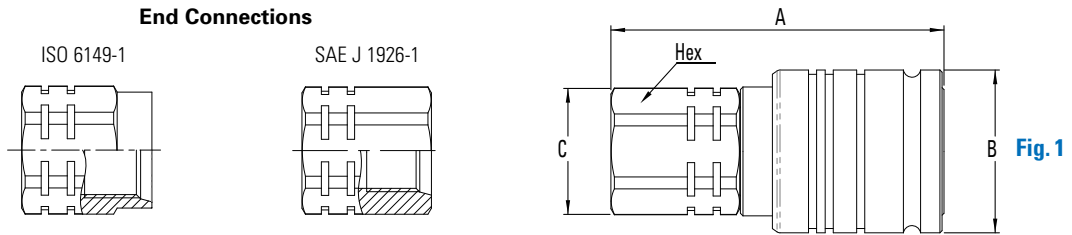
Seal Elastomer Data*

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

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

IA Series

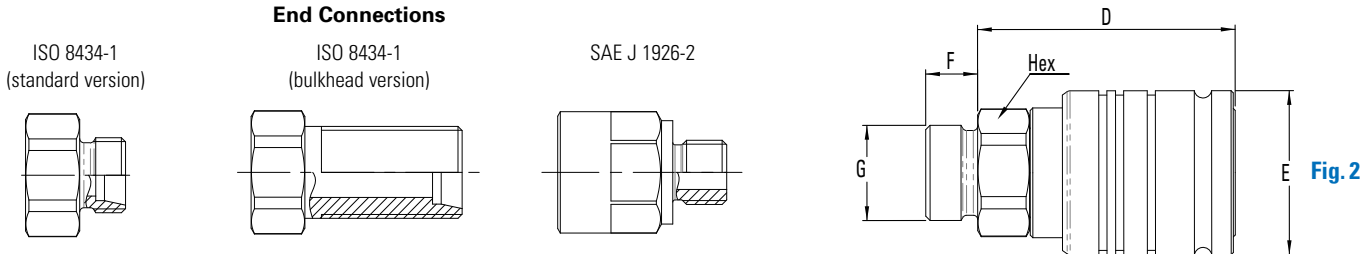
ISO 7241/1 A Interchange



Sockets (Female) with Internal Thread

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size (Female)					Fig.	Dimensions								Weight	
				NPT	BSPF	ISO 6149-1	SAE J 1926-1	Hex		A	B	C	Hex	A	B	C	Hex	lbs	grams
12IAS37BS	1/2	12.5	10.3	-	3/8-19	-	-	1	2.95	1.50	1.20	1.06	75	38	29.5	27	0.67	305	
12IAS37				3/8-18	-	-	-	1	2.95	1.50	1.20	1.06	75	38	29.5	27	0.67	305	
12IAS50BS				-	1/2-14	-	-	1	3.07	1.50	1.20	1.06	78	38	29.5	27	0.66	300	
12IAS50				1/2-14	-	-	-	1	3.07	1.50	1.20	1.06	78	38	29.5	27	0.67	305	
12IAS16FMET				-	-	M16x1.5	-	-	1	2.95	1.50	1.20	1.06	75	38	29.5	27	0.66	300
12IAS56UN				-	-	-	3/8 18f UNF	1	3.07	1.50	1.20	1.06	78	38	29.5	27	0.71	320	
12IAS75UN				-	-	-	3/4 16f UNF	1	3.07	1.50	1.20	1.06	78	38	29.5	27	0.67	305	
12IAS87UN				-	-	-	7/8 14f UNF	1	3.19	1.50	1.30	1.18	81	38	33	30	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 External Thread

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size (Male)			Fig.	Dimensions								Weight		
				ISO 8434-1	SAE J 1926-2	Hex		D	E	F	G	Hex	D	E	F	G	Hex	lbs
12IAS56ORM	1/2	12.5	10.3	-	3/8 18f UNF	2	2.87	1.50	0.47	0.56	0.94	73	38	12	14.2	23.8	0.67	305
12IAS75ORM			10.3	-	3/4 16f UNF	2	2.87	1.50	0.55	0.75	0.94	73	38	14	19	23.8	0.68	310
12IAS8L			6	8L - M14x1.5	-	2	2.44	1.50	0.39	0.55	1.06	62	38	10	14	27	0.61	275
12IAS10L			8	10L - M16x1.5	-	2	2.40	1.50	0.43	0.63	1.06	61	38	11	16	27	0.60	270
12IAS10LBH			8	10L - M16x1.5 Bulkhead	-	2	2.44	1.50	1.38	0.63	1.06	62	38	35	16	27	0.68	310
12IAS12L			10	12L - M18x1.5	-	2	2.40	1.50	0.43	0.71	1.06	61	38	11	18	27	0.61	275
12IAS12LBH			10	12L - M18x1.5 Bulkhead	-	2	2.40	1.50	1.42	0.71	1.06	61	38	36	18	27	0.70	316
12IAS12S			8	12S - M20x1.5	-	2	2.40	1.50	0.47	0.79	1.06	61	38	12	20	27	0.62	282
12IAS15L			10.3	15L - M22x1.5	-	2	2.36	1.50	0.47	0.87	1.06	60	38	12	22	27	0.61	275
12IAS15LBH			10.3	15L - M22x1.5 Bulkhead	-	2	2.40	1.50	1.50	0.87	1.06	61	38	38	22	27	0.75	340
12IAS16S			10.3	16S - M24x1.5	-	2	2.36	1.50	0.55	0.94	1.06	60	38	14	24	27	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

End Connections

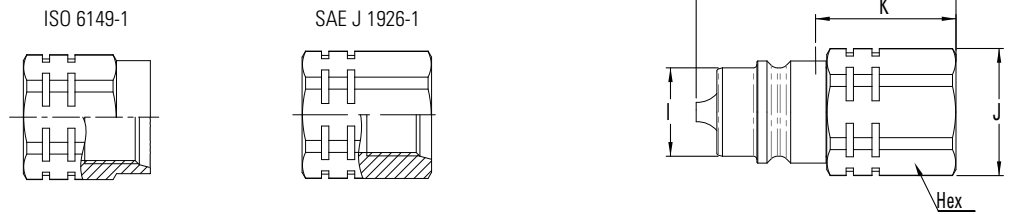


Fig. 3

Plugs (Male) with Internal Thread

Part Number	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Thread Size (Female)				Dimensions											Weight	
				NPT	BSPF	ISO 6149-1	SAE J 1926-1	Fig.	H (in)	I (in)	J (in)	K (in)	Hex (in)	H (mm)	I (mm)	J (mm)	K (mm)	Hex (mm)	lbs	grams
12IAP37BS	1/2	12.5	10.3	-	3/8-19	-	-	3	2.24	0.84	1.20	1.22	1.06	57	20.5	29.5	31	27	0.28	125
12IAP37				-	3/8-18	-	-	3	2.24	0.84	1.20	1.22	1.06	57	20.5	29.5	31	27	0.29	130
12IAP50BS				-	1/2-14	-	-	3	2.36	0.84	1.20	1.34	1.06	60	20.5	29.5	34	27	0.28	125
12IAP50				-	1/2-14	-	-	3	2.36	0.84	1.20	1.34	1.06	60	20.5	29.5	34	27	0.28	125
12IAP16FMET				-	-	M16x1.5	-	3	2.24	0.84	1.20	1.22	1.06	57	20.5	29.5	31	27	0.26	120
12IAP56UN				-	-	-	3/8 18f UNF	3	2.36	0.84	1.20	1.34	1.06	60	20.5	29.5	34	27	0.31	140
12IAP75UN				-	-	-	3/4 16f UNF	3	2.36	0.84	1.20	1.34	1.06	60	20.5	29.5	34	27	0.28	125
12IAP87UN				-	-	-	3/4 14f UNF	3	2.48	0.84	1.30	1.46	1.18	63	20.5	33	37	30	0.34	155

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

End Connections

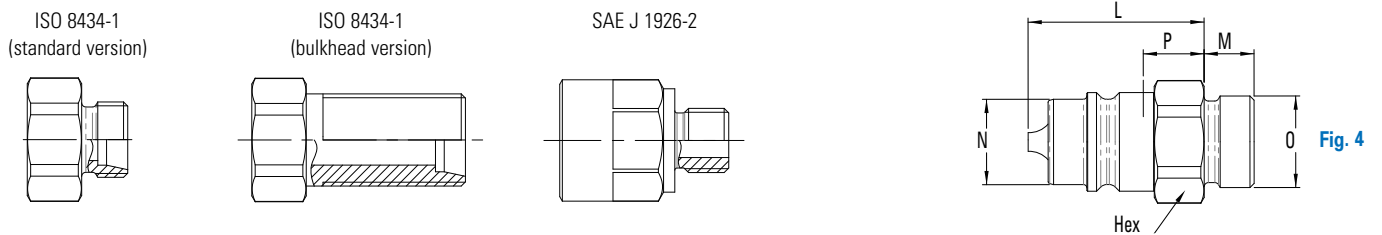


Fig. 4

Plugs (Male) with External Thread

Part Number	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Thread Size (Male)			Dimensions											Weight		
				ISO 8434-1	SAE J 1926-2	Fig.	L (in)	M (in)	N (in)	O (in)	P (in)	Hex (in)	L (mm)	M (mm)	N (mm)	O (mm)	P (mm)	Hex (mm)	lbs	grams
12IAP56ORM	1/2	12.5	10.3	-	3/8 18f UNF	4	2.20	0.47	0.84	0.56	1.18	0.94	56	12	20.5	14.2	30	23.8	0.28	125
12IAP75ORM			10.3	-	3/4 16f UNF	4	2.20	0.55	0.84	0.75	1.18	0.94	56	14	20.5	19	30	23.8	0.29	130
12IAP8L			6	8L - M14x1.5	-	4	1.75	0.39	0.84	0.55	0.71	1.06	44.5	10	20.5	14	18	27	0.21	95
12IAP10L			8	10L - M16x1.5	-	4	1.71	0.43	0.84	0.63	0.67	1.06	43.5	11	20.5	16	17	27	0.21	95
12IAP10LBH			8	10L - M16x1.5 Bulkhead	-	4	1.75	1.38	0.84	0.63	0.71	1.06	44.5	35	20.5	16	18	27	0.30	135
12IAP12L			10	12L - M18x1.5	-	4	1.71	0.43	0.84	0.71	0.67	1.06	43.5	11	20.5	18	17	27	0.21	95
12IAP12LBH			10	12L - M18x1.5 Bulkhead	-	4	1.71	1.42	0.84	0.71	0.67	1.06	43.5	36	20.5	18	17	27	0.30	136
12IAP12S			8	12S - M20x1.5	-	4	1.71	0.47	0.84	0.79	0.67	1.06	43.5	12	20.5	20	17	27	0.22	102
12IAP15L			10.3	15L - M22x1.5	-	4	1.67	0.47	0.84	0.87	0.63	1.06	42.5	12	20.5	22	16	27	0.21	95
12IAP15LBH			10.3	15L - M22x1.5 Bulkhead	-	4	1.71	1.50	0.84	0.87	0.67	1.06	43.5	38	20.5	22	17	27	0.35	160
12IAP16S			10.3	16S - M24x1.5	-	4	1.67	0.55	0.84	0.94	0.63	1.06	42.5	14	20.5	24	16	27	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 (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
1/2	HP1513100	HP1513200



HK Series (Steel)

ISO 7241/1 B Interchange



The HK Series Coupling sets the industry standard for ISO-B Couplings and came to Eaton with the recent acquisition of the Hansen™ and Gromelle™ businesses. 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.

Product Features

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

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

Physical Characteristics

Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure (bar)	Max. Operating Pressure (psi)	Rated Flow* (L/min)	Rated Flow* (gpm)	Air Inclusion cc. max.	Fluid Loss cc. max.
1/8	5	4.4	275	4000	3	0.8	0.6	0.5
1/4	6.3	5.9	345	5000	12	3	1.2	0.9
3/8	10	7.8	255	4000	23	6	2.9	2.1
1/2	12.5	10	345	5000	45	12	3.6	3.5
3/4	20	17	275	4000	100	26	11.5	9.3
1	25	19.6	275	4000	189	50	18.0	16.9
1 1/4**	-	26.7	118	1700	288	76	48.0	48.0
1 1/2	40	35.1	152	2200	375	99	91.3	91.3
2 1/2	50	46	104	1500	757	200	209.9	209.9

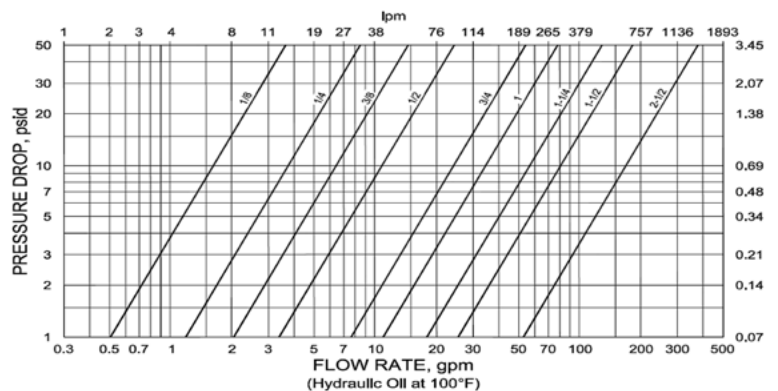
* For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

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



Seal Elastomer Data*

Seal Elastomer**	Max. Operation Temperature Range
Buna-N	-40°C to +121°C/40°F to +250°F
Neoprene	-54°C to +100°C/-65°F to +212°F
EPR (Ethylene Propylene Rubber)	-54°C to +149°C/-65°F to +300°F
Fluorocarbon	-29°C to +204°C/-15°F to +400°F

* For reference only, based on Eaton recommended temperatures.

** For seals not listed contact Eaton.

Contact Eaton technical support for further information on fluid compatibility.

HK Series (Steel)

ISO 7241/1 B Interchange

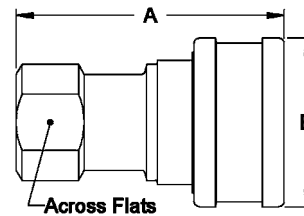


Fig. 1

Sockets (Female)

Part Number
HK1-8
Series

Part Number HK1-8 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Fig.	Dimensions					
			NPTF	BSPP	SAE		A (in)	B (in)	Across Flats (in)	A (mm)	B (mm)	Across Flats (mm)
1H11	1/8	5	1/8-27	-	-	1	1.91	0.98	0.56	48.5	24.9	14.2
1H4	1/8	5	-	-	7/16-20	1	2.06	0.98	0.69	52.3	24.9	17.5
2H16	1/4	6.3	1/4-18	-	-	1	2.26	1.14	0.75	57.4	29.0	19.1
2H16BS	1/4	6.3	-	1/4-19	-	1	2.31	1.14	0.75	58.7	29.0	19.1
2H6	1/4	6.3	-	-	9/16-18	1	2.40	1.14	0.88	61.0	29.0	22.4
3H21	3/8	10	3/8-18	-	-	1	2.56	1.42	0.88	65.0	36.1	22.4
3H21BS	3/8	10	-	3/8-19	-	1	2.56	1.42	0.88	65.0	36.1	22.4
3H8	3/8	10	-	-	3/4-16	1	2.74	1.42	1.00	69.6	36.1	25.4
4HP26	1/2	12.5	1/2-14	-	-	1	2.96	1.86	1.13	75.2	47.2	28.7
4HP26BS	1/2	12.5	-	1/2-14	-	1	2.96	1.86	1.13	75.2	47.2	28.7
4HP10	1/2	12.5	-	-	7/8-14	1	3.05	1.86	1.25	77.5	47.2	31.8
6HP31	3/4	20	3/4-14	-	-	1	3.48	2.22	1.31	88.4	56.4	33.3
6HP31BS	3/4	20	-	3/4-14	-	1	3.48	2.22	1.31	88.4	56.4	33.3
6HP12	3/4	20	-	-	1 1/16-12	1	3.67	2.22	1.38	93.2	56.4	35.1
8HP36	1	25	1-11 1/2	-	-	1	4.13	2.61	1.75	104.9	66.3	44.5
8HP36BS	1	25	-	1-11	-	1	4.13	2.61	1.75	104.9	66.3	44.5
8HP16	1	25	-	-	1 1/16-12	1	4.13	2.61	1.88	104.9	66.3	47.8

A=Overall Length, B=Maximum Diameter

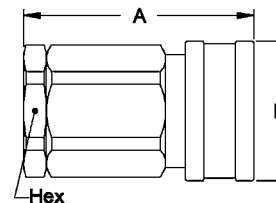


Fig. 2

Sockets (Female)

Part Number
HK10/12/20 Series

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

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 and E together.

HK Series (Steel)

ISO 7241/1 B Interchange

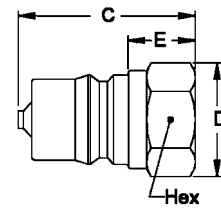


Fig. 3

Plugs (Male)

Part Number HK1-8 Series	High Impulse	Body Size	ISO Size	Thread Size (Female)			Fig.	Dimensions							
				NPTF	BSPP	SAE		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
1K11	-	1/8	5	1/8-27	-	-	3	1.26	0.65	0.44	0.56	32.0	16.5	11.2	14.2
1K4	-	1/8	5	-	-	7/16-20	3	1.41	0.79	0.59	0.69	35.8	20.1	15.0	17.5
2K16	2K16C	1/4	6.3	1/4-18	-	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
2K16BS	-	1/4	6.3	-	1/4-19	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
2K6	2K6C	1/4	6.3	-	-	9/16-18	3	1.66	1.01	0.70	0.88	42.2	25.7	17.8	22.4
3K21	3K21C	3/8	10	3/8-18	-	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
3K21BS	-	3/8	10	-	3/8-19	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
3K8	3K8C	3/8	10	-	-	3/4-16	3	1.94	1.15	0.79	1.00	49.3	29.2	20.1	25.4
4KP26	4KP26	1/2	12.5	1/2-14	-	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
4KP26BS	4KP26BS	1/2	12.5	-	1/2-14	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
4KP10	4KP10	1/2	12.5	-	-	7/8-14	3	2.11	1.37	0.84	1.19	53.6	34.8	21.3	30.2
6KP31	6KP31	3/4	20	3/4-14	-	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
6KP31BS	6KP31BS	3/4	20	-	3/4-14	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
6KP12	6KP12	3/4	20	-	-	1 1/16-12	3	2.54	1.59	0.89	1.38	64.5	40.4	22.6	35.1
8KP36	8KP36	1	25	1-11 1/2	-	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
8KP36BS	8KP36BS	1	25	-	1-11	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
8KP16	8KP16	1	25	-	-	1 1/8-12	3	2.85	2.17	0.97	1.88	72.4	55.1	24.6	47.8

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected
To obtain connected length of coupling add Dimensions A and E together.

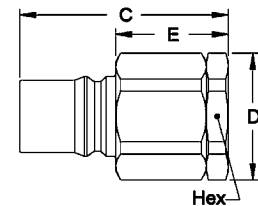


Fig. 4

Plugs (Male)

Part Number HK10/12/20 Series	High Impulse	Body Size	ISO Size	Thread Size (Female)		Fig.	Dimensions							
				NPTF	BSPP		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
10K41*	-	1 1/4	-	1 1/4-11 1/2	-	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5
10K41BS*	-	1 1/4	-	-	1 1/4-11	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5
12K41	12K41C	1 1/2	40	1 1/4-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
12K41BS	12K41CBS	1 1/2	40	-	1 1/4-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
12K46	12K46C	1 1/2	40	1 1/2-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
12K46BS	12K46CBS	1 1/2	40	-	1 1/2-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
20K51	20K51C	2 1/2	60	2-11 1/2	-	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
20K51BS	20K51CBS	2 1/2	60	-	2-11	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
20K56	20K56C	2 1/2	60	2 1/2-8	-	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
20K56BS	20K56CBS	2 1/2	60	-	2 1/2-11	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
20K61	20K61C	2 1/2	60	3-8	-	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6
20K61BS	20K61CBS	2 1/2	60	-	3-11	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6

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 and E together.

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	PDC1HK*	PPDC1HK	SDC1HK*	PSDC1HK
2HK	PDC2HK*	PPDC2HK	SDC2HK*	PSDC2HK
3HK	PDC3HK*	PPDC3HK	SDC3HK*	PSDC3HK
4HK	PDC4HK**	PPDC4HK	SDC4HK**	PSDC4HK
6HK	PDC6HK**	PPDC6HK	SDC6HK**	PSDC6HK
8HK	PDC8HK**	PPDC8HK	SDC8HK**	PSDC8HK
12HK	PDC12HK*		SDC12HK*	
20HK	PDC20HK*		SDC20HK*	

* Brass ** Aluminum



HK Series (Brass)

ISO 7241/1 B Interchange



The 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. Features a ball latch mechanism with automatic self-sealing poppet valves.

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-Buna-N.
Seal options available in PTFE, Neoprene, Fluorocarbon, EPDM, and Kalrez®

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

Physical Characteristics

Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Rated Flow		Air Inclusion	Fluid Loss
			(bar)	(psi)	L/min	(gpm)	cc. max.	cc. max.
1/8	5	4.4	207	3000	3	0.8	0.6	0.5
1/4	6.3	5.9	186	2700	12	3	1.2	0.9
3/8	10	7.8	152	2200	23	6	2.9	2.1
1/2	12.5	10	155	2250	45	12	3.6	3.5
3/4	20	17	138	2000	100	26	11.5	9.3
1	25	19.6	103	1500	189	50	18.0	16.9
1 1/4 **	-	26.7	83	1200	288	76	48.0	48.0
1 1/2	40	35.1	104	1500	375	99	91.3	91.3
2 1/2	50	46	49	700	757	200	209.9	209.9

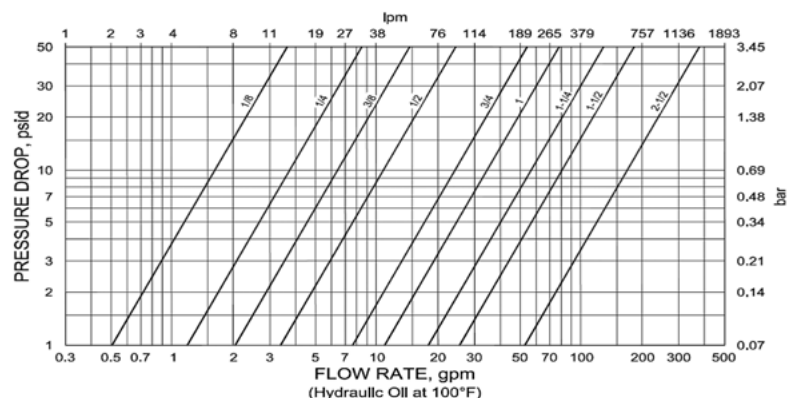
*For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

Applications & Markets



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



Seal Elastomer Data*

Seal Elastomer	Application Specification	Max. Operation Temperature Range
Buna-N	none	-40°C to +121°C/40°F to +250°F
Neoprene	none	-54°C to +100°C/-65°F to +212°F
EPR (Ethylene Propylene Rubber)	none	-54°C to +149°C/-65°C to +300°F
Viton	MIL-R-25897	-29°C to +204°C/-15°F to +400°F

* For reference only, based on Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility.

HK Series (Brass)

ISO 7241/1 B Interchange

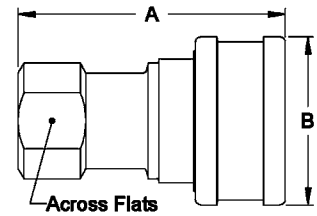


Fig. 1

Sockets (Female)

Part Number HK1-8 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions					
			NPTF	BSPP		A (in)	B (in)	Across Flats (in)	A (mm)	B (mm)	Across Flats (mm)
B1H11	1/8	5	1/8-27	-	1	1.91	0.98	0.56	48.5	24.9	14.2
B2H16	1/4	6.3	1/4-18	-	1	2.26	1.14	0.75	57.4	29.0	19.1
B2H16BS	1/4	6.3	-	1/4-19	1	2.31	1.14	0.75	58.7	29.0	19.1
B3H21	3/8	10	3/8-18	-	1	2.56	1.42	0.88	65.0	36.1	22.4
B3H21BS	3/8	10	-	3/8-19	1	2.56	1.42	0.88	65.0	36.1	22.4
B4HP26	1/2	12.5	1/2-14	-	1	2.96	1.86	1.13	75.2	47.2	28.7
B4HP26BS	1/2	12.5	-	1/2-14	1	2.96	1.86	1.13	75.2	47.2	28.7
B6HP31	3/4	20	3/4-14	-	1	3.48	2.22	1.31	88.4	56.4	33.3
B6HP31BS	3/4	20	-	3/4-14	1	3.48	2.22	1.31	88.4	56.4	33.3
B8HP36	1	25	1-11 1/2	-	1	4.13	2.61	1.75	104.9	66.3	44.5
B8HP36BS	1	25	-	1-11	1	4.13	2.61	1.75	104.9	66.3	44.5

A=Overall Length, B=Maximum Diameter

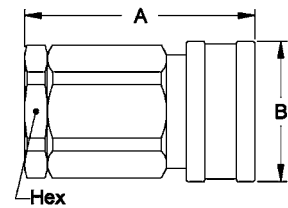


Fig. 2

Sockets (Female)

Part Number HK10/12/20 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions					
			NPTF	BSPP		A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)
B10H41*	1 1/4	-	1 1/4-11 1/2	-	2	4.51	2.73	2.38	114.6	69.3	60.5
B12H41	1 1/2	40	1 1/4-11 1/2	-	2	4.82	3.23	2.38	122.4	82.0	60.5
B12H41BS	1 1/2	40	-	1 1/4-11	2	4.82	3.23	2.38	122.4	82.0	60.5
B12H46	1 1/2	40	1 1/2-11	-	2	4.82	3.23	2.38	122.4	82.0	60.5
B12H46BS	1 1/2	40	-	1 1/2-11	2	4.82	3.23	2.38	122.4	82.0	60.5
B20H51	2 1/2	50	2-11 1/2	-	2	5.55	4.11	3.75	141.0	104.4	95.3
B20H51BS	2 1/2	50	-	2-11	2	5.55	4.11	3.75	141.0	104.4	95.3
B20H56	2 1/2	50	2 1/2-8	-	2	6.14	4.11	3.75	156.0	104.4	95.3
B20H56BS	2 1/2	50	-	2 1/2-11	2	6.14	4.11	3.75	156.0	104.4	95.3
B20H61	2 1/2	50	3-8	-	2	7.00	4.11	4.00	177.8	104.4	101.6
B20H61BS	2 1/2	50	-	3-11	2	7.00	4.11	4.00	177.8	104.4	101.6

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 and E together.



HK Series (Brass)

ISO 7241/1 B Interchange

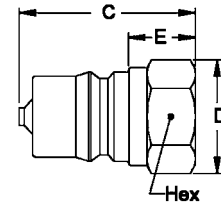


Fig. 3

Plugs (Male)

Part Number HK1-8 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions							
			NPTF	BSPP		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
B1K11	1/8	5	1/8-27	-	3	1.26	0.65	0.44	0.56	32.0	16.5	11.2	14.2
B2K16	1/4	6.3	1/4-18	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
B2K16BS	1/4	6.3	-	1/4-19	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
B3K21	3/8	10	3/8-18	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
B3K21BS	3/8	10	-	3/8-19	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
B4K26	1/2	12.5	1/2-14	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
B4K26BS	1/2	12.5	-	1/2-14	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
B6K31	3/4	20	3/4-14	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
B6K31BS	3/4	20	-	3/4-14	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
B8K36	1	25	1-11 1/2	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
B8K36BS	1	25	-	1-11	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4

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

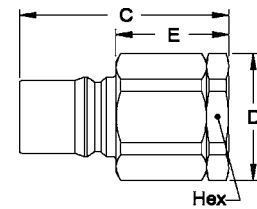


Fig. 4

Plugs (Male)

Part Number HK10/12/20 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions							
			NPTF	BSPP		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
B10K41*	1 1/4	-	1 1/4-11 1/2	-	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5
B12K41	1 1/2	40	1 1/4-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K41BS	1 1/2	40	-	1 1/4-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K46	1 1/2	40	1 1/2-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K46BS	1 1/2	40	-	1 1/2-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B20K51	2 1/2	50	2-11 1/2	-	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
B20K51BS	2 1/2	50	-	2-11	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
B20K56	2 1/2	50	2 1/2-8	-	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
B20K56BS	2 1/2	50	-	2 1/2-11	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
B20K61	2 1/2	50	3-8	-	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6
B20K61BS	2 1/2	50	-	3-11	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6

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 and E together.

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	PDC1HK*	PPDC1HK	SDC1HK*	PSDC1HK
2HK	PDC2HK*	PPDC2HK	SDC2HK*	PSDC2HK
3HK	PDC3HK*	PPDC3HK	SDC3HK*	PSDC3HK
4HK	PDC4HK**	PPDC4HK	SDC4HK**	PSDC4HK
6HK	PDC6HK**	PPDC6HK	SDC6HK**	PSDC6HK
8HK	PDC8HK**	PPDC8HK	SDC8HK**	PSDC8HK
12HK	PDC12HK*		SDC12HK*	
20HK	PDC20HK*		SDC20HK*	

* Brass ** Aluminum



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



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-Buna-N. Seal options available in PTFE, Neoprene, Fluorocarbon, EPDM, and Kalrez®

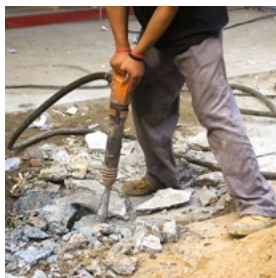
Physical Characteristics

Body Size (in)	ISO Size (mm)	Max. Operating Pressure (mm)	Max. Operating Pressure (bar)	Max. Operating Pressure (psi)	Rated Flow L/min	Rated Flow (gpm)	Air Inclusion cc. max.	Fluid Loss cc. max.
1/8	5	4.4	344	5000	3	0.8	0.6	0.5
1/4	6.3	5.9	255	3700	12	3	1.2	0.9
3/8	10	7.8	255	3700	23	6	2.9	2.1
1/2	12.5	10	293	4250	45	12	3.6	3.5
3/4	20	17	242	3500	100	26	11.5	9.3
1	25	19.6	207	3000	189	50	18.0	16.9
1 1/4**	-	26.7	118	1700	288	76	48.0	48.0
1 1/2	40	35.1	152	2200	375	99	91.3	91.3
2 1/2	50	46	104	1500	757	200	209.9	209.9

* For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

Applications & Markets

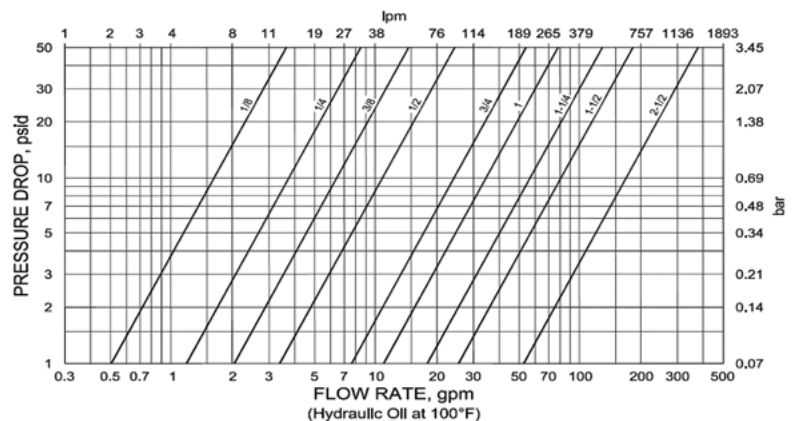


- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Transportation
- Military
- Law Enforcement/Rescue
- Chemical
- Oil and Gas
- Consumer Products
- HVAC
- Food and Beverage
- Trucks
- Aerospace
- Medical

The HK stainless steel 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. Features a ball latch mechanism with automatic self-sealing poppet valves.

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.



Seal Elastomer Data*

Seal Elastomer	Application Specification	Max. Operation Temperature Range
Buna-N	none	-40°C to +121°C/40°F to +250°F
Neoprene	none	-54°C to +100°C/-65°F to +212°F
EPR (Ethylene Propylene Rubber)	none	-54°C to +149°C/-65°C to +300°F
Viton	MIL-R-25897	-29°C to +204°C/-15°F to +400°F

* For reference only, based on Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility.

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

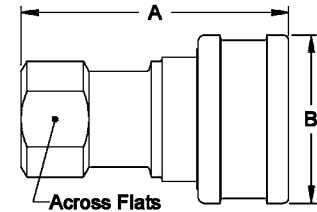


Fig. 1

Sockets (Female)

Part Number HK1-8 Series 303		316	Body Size	ISO Size	Thread Size (Female)			Fig.	Dimensions					
			(in)	(in)	NPTF	BSPF	SAE		A (in)	B (in)	Across Flats (in)	A (mm)	B (mm)	Across Flats (mm)
LL1H11	ML1H11		1/8	5	1/8-27	-	-	1	1.91	0.98	0.56	48.5	24.9	14.2
LL1H4	-		1/8	5	-	-	7/16-20	1	2.06	0.98	0.69	52.3	24.9	17.5
LL2H16	ML2H16		1/4	6.3	1/4-18	-	-	1	2.26	1.14	0.75	57.4	29.0	19.1
LL2H16BS	ML2H16BS		1/4	6.3	-	1/4-19	-	1	2.31	1.14	0.75	58.7	29.0	19.1
LL2H6	-		1/4	6.3	-	-	9/16-18	1	2.40	1.14	0.88	61.0	29.0	22.4
LL3H21	ML3H21		3/8	10	3/8-18	-	-	1	2.56	1.42	0.88	65.0	36.1	22.4
LL3H21BS	ML3H21BS		3/8	10	-	3/8-19	-	1	2.56	1.42	0.88	65.0	36.1	22.4
LL3H8	-		3/8	10	-	-	3/4-16	1	2.74	1.42	1.00	69.6	36.1	25.4
LL4HP26	ML4HP26		1/2	12.5	1/2-14	-	-	1	2.96	1.86	1.13	75.2	47.2	28.7
LL4HP26BS	ML4HP26BS		1/2	12.5	-	1/2-14	-	1	2.96	1.86	1.13	75.2	47.2	28.7
LL4HP10	-		1/2	12.5	-	-	7/8-14	1	3.05	1.86	1.25	77.5	47.2	31.8
LL6HP31	ML6HP31		3/4	20	3/4-14	-	-	1	3.48	2.22	1.31	88.4	56.4	33.3
LL6HP31BS	ML6HP31BS		3/4	20	-	3/4-14	-	1	3.48	2.22	1.31	88.4	56.4	33.3
LL6HP12	-		3/4	20	-	-	1 1/16-12	1	3.67	2.22	1.38	93.2	56.4	35.1
LL8HP36	ML8HP36		1	25	1-11 1/2	-	-	1	4.13	2.61	1.75	104.9	66.3	44.5
LL8HP36BS	ML8HP36BS		1	25	-	1-11	-	1	4.13	2.61	1.75	104.9	66.3	44.5
LL8HP16	-		1	25	-	-	1 1/16-12	1	4.13	2.61	1.88	104.9	66.3	47.8

A=Overall Length, B=Maximum Diameter

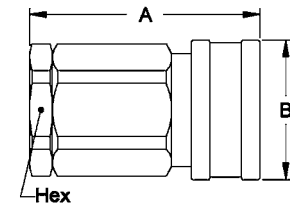


Fig. 2

Sockets (Female)

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

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

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

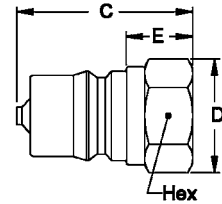


Fig. 3

Plugs (Male)

Part Number HK1-8 Series 303	316	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Fig.	Dimensions							
				NPTF	BSPP	SAE		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
LL1K11	ML1K11	1/8	5	1/8-27	-	-	3	1.26	0.65	0.44	0.56	32.0	16.5	11.2	14.2
LL1K4	-	1/8	5	-	-	7/16-20	3	1.41	0.79	0.59	0.69	35.8	20.1	15.0	17.5
LL2K16	ML2K16C	1/4	6.3	1/4-18	-	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
LL2K16BS	ML2K16BS	1/4	6.3	-	1/4-19	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
LL2K6	-	1/4	6.3	-	-	9/16-18	3	1.66	1.01	0.70	0.88	42.2	25.7	17.8	22.4
LL3K21	ML3K21C	3/8	10	3/8-18	-	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
LL3K21BS	ML3K21BS	3/8	10	-	3/8-19	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
LL3K8	-	3/8	10	-	-	3/4-16	3	1.94	1.15	0.79	1.00	49.3	29.2	20.1	25.4
LL4KP26	ML4KP26	1/2	12.5	1/2-14	-	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
LL4KP26BS	ML4KP26BS	1/2	12.5	-	1/2-14	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
LL4KP10	-	1/2	12.5	-	-	7/8-14	3	2.11	1.37	0.84	1.19	53.6	34.8	21.3	30.2
LL6KP31	ML6KP31	3/4	20	3/4-14	-	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
LL6KP31BS	ML6KP31BS	3/4	20	-	3/4-14	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
LL6KP12	-	3/4	20	-	-	1 1/16-12	3	2.54	1.59	0.89	1.38	64.5	40.4	22.6	35.1
LL8KP36	ML8KP36	1	25	1-11 1/2	-	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
LL8KP36BS	ML8KP36BS	1	25	-	1-11	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
LL8KP16	-	1	25	-	-	1 1/16-12	3	2.85	2.17	0.97	1.88	72.4	55.1	24.6	47.8

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

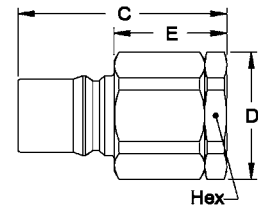


Fig. 4

Plugs (Male)

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

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

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	PDC1HK*	PPDC1HK	SDC1HK*	PSDC1HK
2HK	PDC2HK*	PPDC2HK	SDC2HK*	PSDC2HK
3HK	PDC3HK*	PPDC3HK	SDC3HK*	PSDC3HK
4HK	PDC4HK**	PPDC4HK	SDC4HK**	PSDC4HK
6HK	PDC6HK**	PPDC6HK	SDC6HK**	PSDC6HK
8HK	PDC8HK**	PPDC8HK	SDC8HK**	PSDC8HK
12HK	PDC12HK*		SDC12HK*	
20HK	PDC20HK*		SDC20HK*	

* Brass ** Aluminum



H5000 Series (Steel)



The Eaton H5000 Series steel quick disconnect coupling is a pull to connect double shut-off coupling. Featuring the original Eaton Gromelle™ profile, it remains as “the” series users prefer when it comes to severe hydraulic applications 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 aluminium)
- Pressure performance
- Standard body material: Zinc-plated 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*		Hazardous liquids & gases in Group 1		Rated Flow**		Fluid Loss ml-cc.
		Non hazardous liquids & gases in Group 2	(bar)	(psi)	(bar)	(psi)	L/min	
1/8	3.8	1000	14500	1000	14500	6.1	1.61	0.4
1/4	5.7	700	10150	700	10150	11.6	3.06	1
3/8	7.6	600	8700	600	8700	16.7	4.41	2
1/2	10.3	500	7250	500	7250	25.5	6.74	2.5
3/4	14.2	400	5800	400	5800	55	14.53	5.5
1	16.5	300	4350	300	4350	87	22.98	9
1 1/4	20.5	200	2900	200	2900	140	36.98	23
1 1/2	25.8	150	2175	38	550	208	54.95	36
2	34.7	100	1450	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*

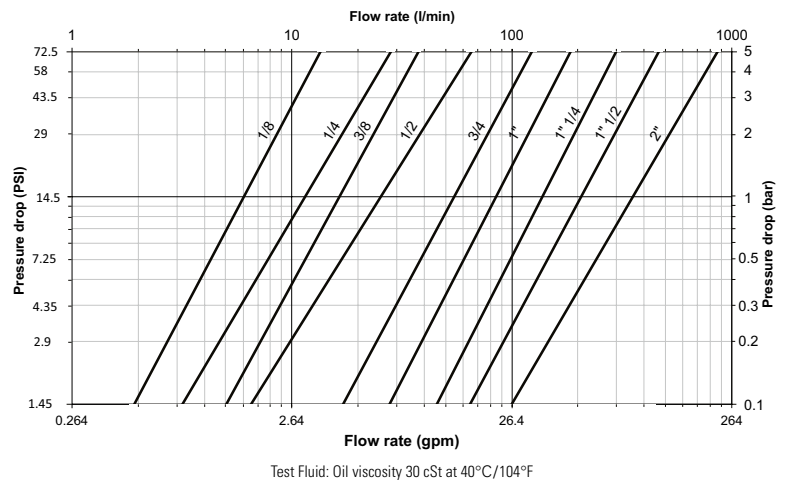
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive 97/23 EC. 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



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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

H5000 Series (Steel)

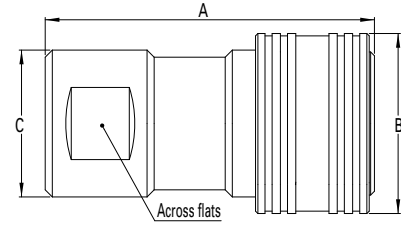


Fig. 1

Sockets (Female)

Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size** (Female)			Fig.	Dimensions								Weight	
NBR*	FKM	EPDM			NPT	BSPP	Metric		A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
HA0500100	HA05001V0	HA05001E0	1/8	3.8	-	1/8-28	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0520100	HA05201V0	HA05201E0	1/8	3.8	1/8-27	-	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0530100	HA05301V0	HA05301E0	1/8	3.8	-	-	M10x100	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0501100	HA05011V0	HA05011E0	1/4	5.7	-	1/4-19	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0521100	HA05211V0	HA05211E0	1/4	5.7	1/4-18	-	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0531100	HA05311V0	HA05311E0	1/4	5.7	-	-	M14x150	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0502100	HA05021V0	HA05021E0	3/8	7.6	-	3/8-19	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0522100	HA05221V0	HA05221E0	3/8	7.6	3/8-18	-	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0532100	HA05321V0	HA05321E0	3/8	7.6	-	-	M18x150	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0503100	HA05031V0	HA05031E0	1/2	10.3	-	1/2-14	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0523100	HA05231V0	HA05231E0	1/2	10.3	1/2-14	-	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0533100	HA05331V0	HA05331E0	1/2	10.3	-	-	M22x150	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0504100	HA05041V0	HA05041E0	3/4	14.2	-	3/4-14	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0524100	HA05241V0	HA05241E0	3/4	14.2	3/4-14	-	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0534100	HA05341V0	HA05341E0	3/4	14.2	-	-	M27x150	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0505100	HA05051V0	HA05051E0	1	16.5	-	1-11	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HA0525100	HA05251V0	HA05251E0	1	16.5	1-11 1/2	-	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
-	HA05061V0	HA05061E0	1 1/4	20.5	-	1 1/4-11	-	1	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2165
-	HA05071V0	HA05071E0	1 1/2	25.8	-	1 1/2-11	-	1	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3500
-	HA05091V0	HA05091E0	2	34.7	-	2-11	-	1	6.69	3.82	3.35	2.95	170	97	85	75	10.67	4840

* 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.

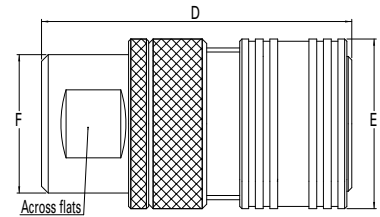


Fig. 2

Sockets with Sleeve Lock (Female)

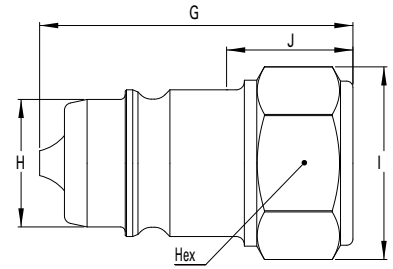
Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size** (Female)			Fig.	Dimensions								Weight	
NBR*	FKM	EPDM			NPT	BSPP	Metric		D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams
HA0500300	HA05003V0	HA05003E0	1/8	3.8	-	1/8-28	-	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0520300	HA05203V0	HA05203E0	1/8	3.8	1/8-27	-	-	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0530300	HA05303V0	HA05303E0	1/8	3.8	-	-	M10x100	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0501300	HA05013V0	HA05013E0	1/4	5.7	-	1/4-19	-	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0521300	HA05213V0	HA05213E0	1/4	5.7	1/4-18	-	-	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0531300	HA05313V0	HA05313E0	1/4	5.7	-	-	M14x150	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0502300	HA05023V0	HA05023E0	3/8	7.6	-	3/8-19	-	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0522300	HA05223V0	HA05223E0	3/8	7.6	3/8-18	-	-	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0532300	HA05323V0	HA05323E0	3/8	7.6	-	-	M18x150	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0503300	HA05033V0	HA05033E0	1/2	10.3	-	1/2-14	-	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0523300	HA05233V0	HA05233E0	1/2	10.3	1/2-14	-	-	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0533300	HA05333V0	HA05333E0	1/2	10.3	-	-	M22x150	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0504300	HA05043V0	HA05043E0	3/4	14.2	-	3/4-14	-	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0524300	HA05243V0	HA05243E0	3/4	14.2	3/4-14	-	-	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0534300	HA05343V0	HA05343E0	3/4	14.2	-	-	M27x150	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0505300	HA05053V0	HA05053E0	1	16.5	-	1-11	-	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
HA0525300	HA05253V0	HA05253E0	1	16.5	1-11 1/2	-	-	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
-	HA05063V0	HA05063E0	1 1/4	20.5	-	1 1/4-11	-	2	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2230
-	HA05073V0	HA05073E0	1 1/2	25.8	-	1 1/2-11	-	2	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3585
-	HA05093V0	HA05093E0	2	34.7	-	2-11	-	2	6.69	3.82	3.35	2.95	170	97	85	75	10.67	5658

* 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 (Steel)



Plugs (Male)

Part Number			Nominal Body Flow Size Diameter		Thread Size** (Female)			Dimensions						Weight						
NBR*	FKM	EPDM	(in)	(mm)	NPT	BSPP	Metric	Fig.	G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HA0500200	HA05002V0	HA05002E0	1/8	3.8	-	1/8-28	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0520200	HA05202V0	HA05202E0	1/8	3.8	1/8-27	-	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0530200	HA05302V0	HA05302E0	1/8	3.8	-	-	M10x100	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0501200	HA05012V0	HA05012E0	1/4	5.7	-	1/4-19	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0521200	HA05212V0	HA05212E0	1/4	5.7	1/4-18	-	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0531200	HA05312V0	HA05312E0	1/4	5.7	-	-	M14x150	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0502200	HA05022V0	HA05022E0	3/8	7.6	-	3/8-19	-	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0522200	HA05222V0	HA05222E0	3/8	7.6	3/8-18	-	-	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0532200	HA05322V0	HA05322E0	3/8	7.6	-	-	M18x150	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0503200	HA05032V0	HA05032E0	1/2	10.3	-	1/2-14	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0523200	HA05232V0	HA05232E0	1/2	10.3	1/2-14	-	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0533200	HA05332V0	HA05332E0	1/2	10.3	-	-	M22x150	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0504200	HA05042V0	HA05042E0	3/4	14.2	-	3/4-14	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0524200	HA05242V0	HA05242E0	3/4	14.2	3/4-14	-	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0534200	HA05342V0	HA05342E0	3/4	14.2	-	-	M27x150	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0505200	HA05052V0	HA05052E0	1	16.5	-	1-11	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HA0525200	HA05252V0	HA05252E0	1	16.5	1-11 1/2	-	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
-	HA05062V0	HA05062E0	1 1/4	20.5	-	1 1/4-11	-	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	1.98	900
-	HA05072V0	HA05072E0	1 1/2	25.8	-	1 1/2-11	-	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.30	1500
-	HA05092V0	HA05092E0	2	34.7	-	2-11	-	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.06	1840

* 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 (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
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



H5000 Series (Brass)



The Eaton 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 Eaton Gromelle™ profile. Mainly used in fluid transfer applications where stainless steel is not a requirement, it offers a good alternative for corrosion resistance.

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 aluminium)
- Standard body material: Nickel-plated brass
- Standard seal material: NBR, FKM, EPDM

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey gases in Group 1 (hazardous).

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

Physical Characteristics

Body Size (in)	Nominal Flow Diameter* (mm)	Max. Operating Pressure**		Rated Flow***		Fluid Loss ml-cc.		
		Gases in Group 2 bar	Gases in Group 1 (psi)	L/min	(gpm)			
1/8	3.8	300	4350	300	4350	6.1	1.61	0.4
1/4	5.7	230	3335	230	3335	11.6	3.06	1
3/8	7.6	175	2535	175	2535	16.7	4.41	2
1/2	10.3	150	2175	150	2175	25.5	6.74	2.5
3/4	14.2	125	1810	125	1810	55	14.53	5.5
1	16.5	100	1450	100	1450	87	22.98	9
1 1/4	20.5	70	1015	70	1015	140	36.98	23
1 1/2	25.8	50	725	50	725	208	54.95	36
2	34.7	20	290	40	580	357	94.3	70

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (PED 97/23 EC)

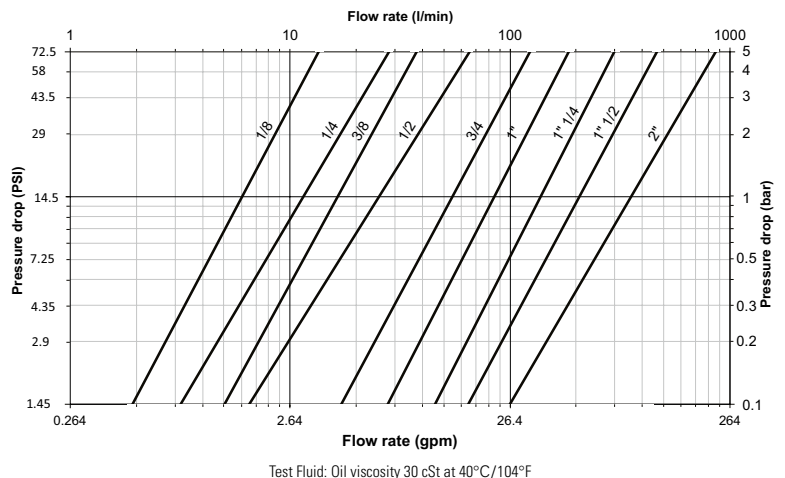
** For pulsating pressures when disconnected apply a multiplier of 0.5

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

Applications & Markets



- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General hydraulic applications



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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

H5000 Series (Brass)

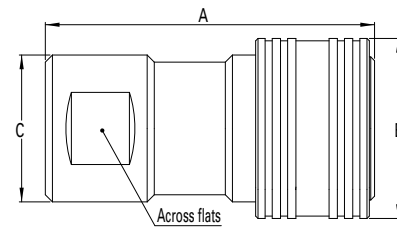


Fig. 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions								Weight	
NBR	FKM	EPDM					(in)	(mm)	BSPP	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)
HL0500100	HL05001V0	HL05001E0	1/8	3.8	1/8-28	1	1.65	0.94	0.83	0.63	42	24	21	16	0.21	97
HL0501100	HL05011V0	HL05011E0	1/4	5.7	1/4-19	1	1.97	1.10	0.94	0.75	50	28	24	19	0.30	134
HL0502100	HL05021V0	HL05021E0	3/8	7.6	3/8-19	1	2.32	1.34	1.10	0.90	59	34	28	23	0.48	217
HL0503100	HL05031V0	HL05031E0	1/2	10.3	1/2-14	1	2.71	1.50	1.22	1.06	69	38	31	27	0.55	249
HL0504100	HL05041V0	HL05041E0	3/4	14.2	3/4-14	1	3.50	1.89	1.57	1.38	89	48	40	35	1.40	635
HL0505100	HL05051V0	HL05051E0	1	16.5	1-11	1	3.89	2.05	1.77	1.61	99	52	45	41	1.75	792
HL0506100	HL05061V0	HL05061E0	1 1/4	20.5	1 1/4-11	1	5.20	2.95	2.44	2.16	132	75	62	55	5.25	2382
HL0507100	HL05071V0	HL05071E0	1 1/2	25.8	1 1/2-11	1	5.90	3.35	2.95	2.56	150	85	75	65	8.49	3850
HL0509100	HL05091V0	HL05091E0	2	34.7	2-11	1	6.69	3.82	3.35	2.95	170	97	85	75	11.74	5324

* Alternative end connections available upon request.

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

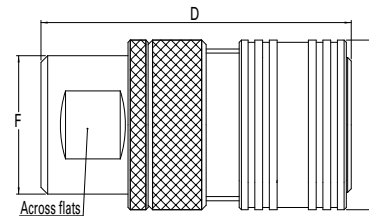


Fig. 2

Sockets with Sleeve Lock (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions								Weight	
NBR	FKM	EPDM					(in)	(mm)	BSPP	D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)
HL0500300	HL05003V0	HL05003E0	1/8	3.8	1/8-28	2	1.65	0.94	0.83	0.63	42	24	21	16	0.22	100
HL0501300	HL05013V0	HL05013E0	1/4	5.7	1/4-19	2	1.97	1.10	0.94	0.75	50	28	24	19	0.33	148
HL0502300	HL05023V0	HL05023E0	3/8	7.6	3/8-19	2	2.32	1.34	1.10	0.90	59	34	28	23	0.55	248
HL0503300	HL05033V0	HL05033E0	1/2	10.3	1/2-14	2	2.71	1.50	1.22	1.06	69	38	31	27	0.75	341
HL0504300	HL05043V0	HL05043E0	3/4	14.2	3/4-14	2	3.50	1.89	1.57	1.38	89	48	40	35	1.61	732
HL0505300	HL05053V0	HL05053E0	1	16.5	1-11	2	3.89	2.05	1.77	1.61	99	52	45	41	1.97	894
HL0506300	HL05063V0	HL05063E0	1 1/4	20.5	1 1/4-11	2	5.20	2.95	2.44	2.16	132	75	62	55	5.41	2453
HL0507300	HL05073V0	HL05073E0	1 1/2	25.8	1 1/2-11	2	5.90	3.35	2.95	2.56	150	85	75	65	8.69	3944
HL0509300	HL05093V0	HL05093E0	2	34.7	2-11	2	6.69	3.82	3.35	2.95	170	97	85	75	13.72	6224

* 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)

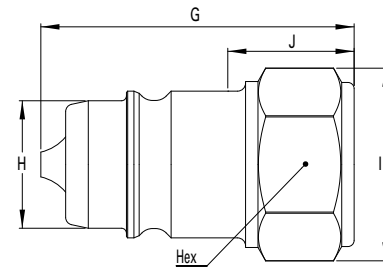


Fig. 3

Plugs (Male)

Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)	Fig.	Dimensions										Weight	
NBR	FKM	EPDM					G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HL0500200	HL05002V0	HL05002E0	1/8	3.8	1/8-28	3	1.1	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.06	26
HL0501200	HL05012V0	HL05012E0	1/4	5.7	1/4-19	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.09	41
HL0502200	HL05022V0	HL05022E0	3/8	7.6	3/8-19	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.17	77
HL0503200	HL05032V0	HL05032E0	1/2	10.3	1/2-14	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.22	101
HL0504200	HL05042V0	HL05042E0	3/4	14.2	3/4-14	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.53	239
HL0505200	HL05052V0	HL05052E0	1	16.5	1-11	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.70	316
HL0506200	HL05062V0	HL05062E0	1 1/4	20.5	1 1/4-11	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	2.18	990
HL0507200	HL05072V0	HL05072E0	1 1/2	25.8	1 1/2-11	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.64	1650
HL0509200	HL05092V0	HL05092E0	2	34.7	2-11	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.46	2024

* 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 (in)	Socket Dust Plug Part Number Anodized Aluminium	Plug Dust Cap Part Number Anodized Aluminium
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



H5000 Series (Stainless Steel)



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

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 aluminium)
- Pressure performance
- Standard body material: AISI 316L Stainless steel
- Standard seal material: FKM, EPDM

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*		Rated Flow**		Fluid Loss
		bar	(psi)	L/min	(gpm)	ml-cc.
1/8	3.8	300	4350	6.1	1.61	0.4
1/4	5.7	230	3335	11.6	3.06	1
3/8	7.6	175	2535	16.7	4.41	2
1/2	10.3	150	2175	25.5	6.74	2.5
3/4	14.2	125	1810	55	14.53	5.5
1	16.5	100	1450	87	22.98	9
1 1/4	20.5	100	1450	140	36.98	23
1 1/2	25.8	75	1085	208	54.95	36
2	34.7	40	580	357	94.30	70

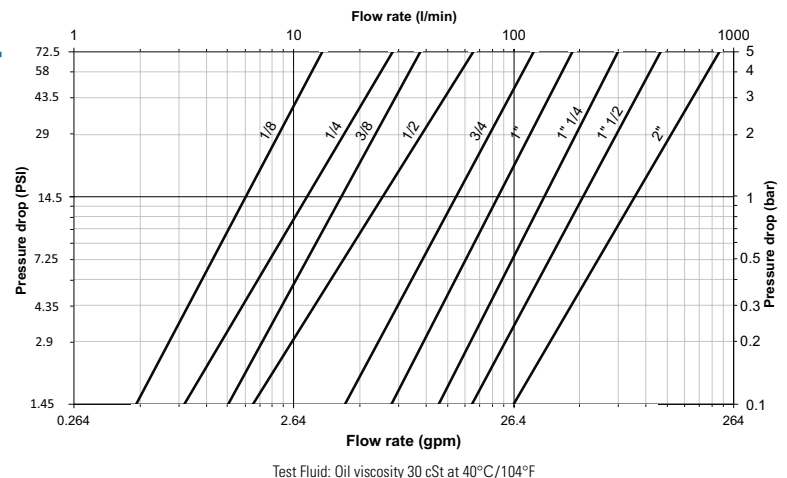
* For pulsating pressures when disconnected apply a multiplier of 0.5

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

Applications & Markets



- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General hydraulic applications



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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

H5000 Series (Stainless Steel)

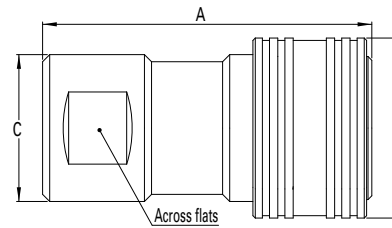


Fig. 1

Sockets (Female)

Part Number	FKM	EPDM	Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions								Weight		
							A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams	
HZ05001V0		HZ05001E0	1/8	3.8	-	1/8-28	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HZ05201V0		HZ05201E0	1/8	3.8	1/8-27	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HZ05011V0		HZ05011E0	1/4	5.7	-	1/4-19	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HZ05211V0		HZ05211E0	1/4	5.7	1/4-18	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HZ05021V0		HZ05021E0	3/8	7.6	-	3/8-19	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HZ05221V0		HZ05221E0	3/8	7.6	3/8-18	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HZ05031V0		HZ05031E0	1/2	10.3	-	1/2-14	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HZ05231V0		HZ05231E0	1/2	10.3	1/2-14	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HZ05041V0		HZ05041E0	3/4	14.2	-	3/4-14	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HZ05241V0		HZ05241E0	3/4	14.2	3/4-14	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HZ05051V0		HZ05051E0	1	16.5	-	1-11	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HZ05251V0		HZ05251E0	1	16.5	1-11 1/2	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HZ05061V0		HZ05061E0	1 1/4	20.5	-	1 1/4-11	1	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2165
HZ05071V0		HZ05071E0	1 1/2	25.8	-	1 1/2-11	1	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3500
HZ05091V0		HZ05091E0	2	34.7	-	2-11	1	6.69	3.82	3.35	2.95	170	97	85	75	10.67	4840

* Alternative end connections available upon request.

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

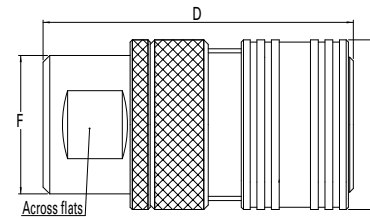


Fig. 2

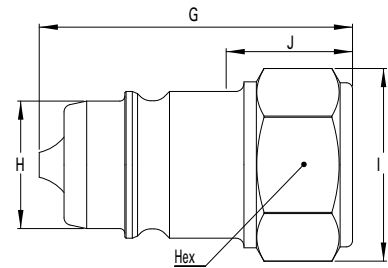
Sockets with Sleeve Lock (Female)

Part Number	FKM	EPDM	Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions								Weight	
							D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams
HZ05003V0		HZ05003E0	1/8	3.8	1/8-28	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HZ05013V0		HZ05013E0	1/4	5.7	1/4-19	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HZ05023V0		HZ05023E0	3/8	7.6	3/8-19	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HZ05033V0		HZ05033E0	1/2	10.3	1/2-14	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HZ05043V0		HZ05043E0	3/4	14.2	3/4-14	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HZ05053V0		HZ05053E0	1	16.5	1-11	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
HZ05063V0		HZ05063E0	1 1/4	20.5	1 1/4-11	2	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2230
HZ05073V0		HZ05073E0	1 1/2	25.8	1 1/2-11	2	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3585
HZ05093V0		HZ05093E0	2	34.7	2-11	2	6.69	3.82	3.35	2.95	170	97	85	75	10.67	5658

* 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 Number	Body Size	Nominal Flow Diameter		Thread Size* (Female)		Fig.	Dimensions										Weight	
		(in)	(mm)	NPT	BSPP		G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HZ05002V0	HZ05002E0	1/8	3.8	-	1/8-28	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HZ05202V0	HZ05202E0	1/8	3.8	1/8-27	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HZ05012V0	HZ05012E0	1/4	5.7	-	1/4-19	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HZ05212V0	HZ05212E0	1/4	5.7	1/4-18	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HZ05022V0	HZ05022E0	3/8	7.6	-	3/8-19	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.15	70
HZ05222V0	HZ05222E0	3/8	7.6	3/8-18	-	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.15	70
HZ05032V0	HZ05032E0	1/2	10.3	-	1/2-14	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HZ05232V0	HZ05232E0	1/2	10.3	1/2-14	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HZ05042V0	HZ05042E0	3/4	14.2	-	3/4-14	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HZ05242V0	HZ05242E0	3/4	14.2	3/4-14	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HZ05052V0	HZ05052E0	1	16.5	-	1-11	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HZ05252V0	HZ05252E0	1	16.5	1-11 1/2	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HZ05062V0	HZ05062E0	1 1/4	20.5	-	1 1/4-11	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	1.98	900
HZ05072V0	HZ05072E0	1 1/2	25.8	-	1 1/2-11	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.30	1500
HZ05092V0	HZ05092E0	2	34.7	-	2-11	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.06	1840

* 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 (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
	Anodized Aluminium	Anodized Aluminium
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



L7000 Series Full Flow (Steel)



The Eaton L7000 Series steel quick disconnect coupling is a full-flow coupling with a rugged construction. Similarly to Eaton 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-plated steel (made of anodized aluminium)
- Standard seal material: NBR, FKM, EPDM
- Optional dust caps and plugs

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.

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 97/23 EC. They should not be used to convey unstable gases.

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

Applications & Markets



- Fluid transfer lines
- Refrigerant circuits
- Applications where maximum flow capacity is required



Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure (connected)*			
		Non hazardous liquids & gases in Group 2		Hazardous liquids & gases in Group 1	
		bar	(psi)	bar	(psi)
1/8	8	1000	14500	1000	14500
1/4	10	700	10150	700	10150
3/8	12	600	8700	600	8700
1/2	15	500	7250	500	7250
3/4	20	400	5800	400	5800
1	25	300	4350	300	4350
1 1/4	33	200	2900	30	435
1 1/2	40	150	2175	24	345
2	50	100	1450	19	275

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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility

L7000 Series Full Flow (Steel)

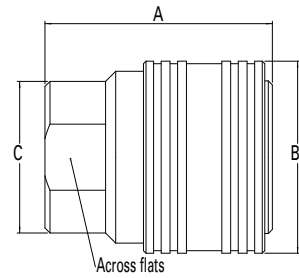


Fig. 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)	Fig.	Dimensions								Weight	
NBR*	FKM	EPDM					(in)	(mm)	BSPP	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)
LA0700100	LA07001V0	LA07001E0	1/8	8	1/8-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.19	86
LA0701100	LA07011V0	LA07011E0	1/4	10	1/4-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.19	87
LA0702100	LA07021V0	LA07021E0	3/8	12	3/8-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.28	129
LA0703100	LA07031V0	LA07031E0	1/2	15	1/2-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.39	177
LA0704100	LA07041V0	LA07041E0	3/4	20	3/4-14	1	2.20	1.89	1.50	1.38	56	48	38	35	0.78	355
LA0705100	LA07051V0	LA07051E0	1	25	1-11	1	2.40	2.05	1.77	1.61	61	52	45	41	0.97	440
-	LA07061V0	LA07061E0	1 1/4	33	1 1/4-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.15	975
-	LA07071V0	LA07071E0	1 1/2	40	1 1/2-11	1	3.38	3.35	2.83	2.56	86	85	72	65	3.85	1745
-	LA07091V0	LA07091E0	2	50	2-11	1	3.46	3.82	3.27	2.95	88	97	83	75	4.11	1865

* 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

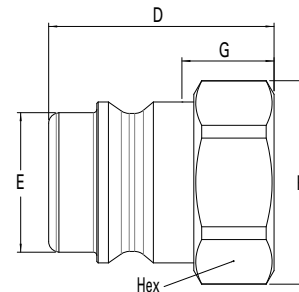


Fig. 2

Plugs (Male)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions								Weight			
NBR	FKM	EPDM					(in)	(mm)	BSPP	D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)
LA0700200	LA07002V0	LA07002E0	1/8	8	1/8-28	2	1.02	0.43	0.72	0.41	0.63	26	11	18.4	10.5	16	0.04	19
LA0701200	LA07012V0	LA07012E0	1/4	10	1/4-19	2	1.00	0.56	0.82	0.41	0.75	25.5	14.2	21	10.5	19	0.06	26
LA0702200	LA07022V0	LA07022E0	3/8	12	3/8-19	2	1.10	0.75	1.02	0.42	0.90	28	19	26	10.7	23	0.10	45
LA0703200	LA07032V0	LA07032E0	1/2	15	1/2-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.12	54
LA0704200	LA07042V0	LA07042E0	3/4	20	3/4-14	2	1.57	1.10	1.50	0.55	1.38	40	27.9	38	14	35	0.26	117
LA0705200	LA07052V0	LA07052E0	1	25	1-11	2	1.73	1.27	1.77	0.73	1.61	44	32.4	45	18.5	41	0.34	155
LA0706200	LA07062V0	LA07062E0	1 1/4	33	1 1/4-11	2	2.12	1.73	2.36	0.83	2.16	54	44	60	21	55	0.94	424
LA0707200	LA07072V0	LA07072E0	1 1/2	40	1 1/2-11	2	2.32	2.10	2.83	0.87	2.56	59	53.5	71.9	22	65	1.45	656
LA0709200	LA07092V0	LA07092E0	2	50	2-11	2	2.68	2.47	3.27	1.06	2.95	68	62.8	83	27	75	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.

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
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



L7000 Series Full Flow (Brass)



The Eaton 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 vehicle a wide range of media and offers good corrosion resistance.

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 aluminium)
- Standard seal material: NBR, FKM, EPDM

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.

Couplings with nominal diameters greater than 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.

They should not be used to convey gases in Group 1 (hazardous).

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

Applications & Markets



- Pressure washing
- Steam-cleaning equipment
- Fluid transfer lines
- Refrigerant circuits
- Applications where maximum flow capacity is required



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	4350	300	4350
1/4	10	230	3335	230	3335
3/8	12	175	2535	175	2535
1/2	15	150	2175	150	2175
3/4	20	125	1810	125	1810
1	25	100	1450	100	1450
1 1/4	33	60	870	30	435
1 1/2	40	50	725	25	360
2	50	40	580	20	290

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (as per PED 97/23 EC).

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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

L7000 Series Full Flow (Brass)

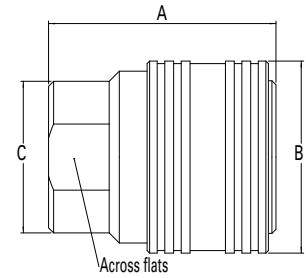


Fig. 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)	Fig.	Dimensions								Weight	
NBR*	FKM	EPDM					(in)	(mm)	BSPP	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)
LL0700100	LL07001V0	LL07001E0	1/8	8	1/8-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.21	95
LL0701100	LL07011V0	LL07011E0	1/4	10	1/4-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.21	96
LL0702100	LL07021V0	LL07021E0	3/8	12	3/8-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.31	142
LL0703100	LL07031V0	LL07031E0	1/2	15	1/2-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.43	195
LL0704100	LL07041V0	LL07041E0	3/4	20	3/4-14	1	2.20	1.89	1.50	1.38	56	48	38	35	0.86	391
LL0705100	LL07051V0	LL07051E0	1	25	1-11	1	2.40	2.05	1.77	1.61	61	52	45	41	1.07	484
-	LL07061V0	LL07061E0	1 1/4	33	1 1/4-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.37	1073
-	LL07071V0	LL07071E0	1 1/2	40	1 1/2-11	1	3.38	3.35	2.83	2.56	86	85	72	65	4.23	1920
-	LL07091V0	LL07091E0	2	50	2-11	1	3.46	3.82	3.27	2.95	88	97	83	75	4.52	2052

* 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

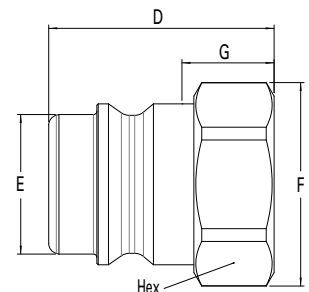


Fig. 2

Plugs (Male)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions								Weight			
NBR	FKM	EPDM					(in)	(mm)	BSPP	D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)
LL0700200	LL07002V0	LL07002E0	1/8	8	1/8-28	2	1.02	0.43	0.72	0.41	0.63	26	11	18.4	10.5	16	0.05	21
LL0701200	LL07012V0	LL07012E0	1/4	10	1/4-19	2	1.00	0.56	0.82	0.41	0.75	25.5	14.2	21	10.5	19	0.06	29
LL0702200	LL07022V0	LL07022E0	3/8	12	3/8-19	2	1.10	0.75	1.02	0.42	0.90	28	19	26	10.7	23	0.11	50
LL0703200	LL07032V0	LL07032E0	1/2	15	1/2-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.13	59
LL0704200	LL07042V0	LL07042E0	3/4	20	3/4-14	2	1.57	1.10	1.50	0.55	1.38	40	27.9	38	14	35	0.28	129
LL0705200	LL07052V0	LL07052E0	1	25	1-11	2	1.73	1.27	1.77	0.73	1.61	44	32.4	45	18.5	41	0.38	171
LL0706200	LL07062V0	LL07062E0	1 1/4	33	1 1/4-11	2	2.12	1.73	2.36	0.83	2.16	54	44	60	21	55	1.03	466
LL0707200	LL07072V0	LL07072E0	1 1/2	40	1 1/2-11	2	2.32	2.10	2.83	0.87	2.56	59	53.5	71.9	22	65	1.59	722
LL0709200	LL07092V0	LL07092E0	2	50	2-11	2	2.68	2.47	3.27	1.06	2.95	68	62.8	83	27	75	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.

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
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



L7000 Series Full Flow (Stainless Steel)



The Eaton 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 aluminium)
- Standard seal material: FKM, EPDM

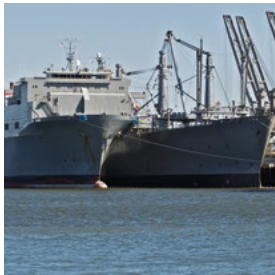
European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

Applications & Markets



- Pressure washing
- Steam-cleaning equipment
- Fluid transfer lines
- Refrigerant circuits
- Applications where maximum flow capacity is required



Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure (connected)	
		bar	(psi)
1/8	8	300	4350
1/4	10	230	3335
3/8	12	175	3535
1/2	15	150	2175
3/4	20	125	1810
1	25	100	1450
1 1/4	33	100	1450
1 1/2	40	75	1085
2	50	40	580

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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

L7000 Series Full Flow (Stainless Steel)

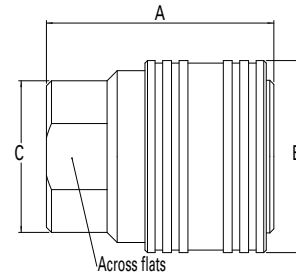


Fig. 1

Sockets (Female)

Part Number	FKM	EPDM	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)	Fig.	Dimensions							Weight		
							A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
LZ07001V0	LZ07001E0		3/8	8	1/8-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.19	86
LZ07011V0	LZ07011E0		1/4	10	1/4-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.19	87
LZ07021V0	LZ07021E0		3/8	12	3/8-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.28	129
LZ07031V0	LZ07031E0		1/2	15	1/2-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.39	177
LZ07041V0	LZ07041E0		3/4	20	3/4-14	1	2.20	1.89	1.50	1.38	56	48	38	35	0.78	355
LZ07051V0	LZ07051E0		1	25	1-11	1	2.40	2.05	1.77	1.61	61	52	45	41	0.97	440
LZ07061V0	LZ07061E0		1 1/4	33	1 1/4-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.15	975
LZ07071V0	LZ07071E0		1 1/2	40	1 1/2-11	1	3.38	3.35	2.83	2.56	86	85	72	65	3.85	1745
LZ07091V0	LZ07091E0		2	50	2-11	1	3.46	3.82	3.27	2.95	88	97	83	75	4.11	1865

* Alternative end connections available upon request.

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

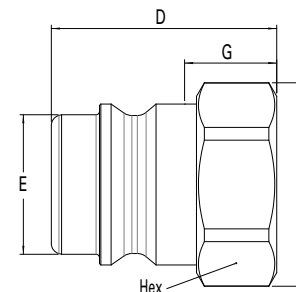


Fig. 2

Plugs (Male)

Part Number	FKM	EPDM	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)	Fig.	Dimensions							Weight				
							D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
LZ07002V0	LZ07002E0		3/8	8	1/8-28	2	1.02	0.43	0.72	0.41	0.63	26	11.0	18.4	10.5	16	0.04	19
LZ07012V0	LZ07012E0		1/4	10	1/4-19	2	1.00	0.56	0.82	0.41	0.75	25.5	14.2	21	10.5	19	0.06	26
LZ07022V0	LZ07022E0		3/8	12	3/8-19	2	1.10	0.75	1.02	0.42	0.90	28	19.0	26	10.7	23	0.10	45
LZ07032V0	LZ07032E0		1/2	15	1/2-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.12	54
LZ07042V0	LZ07042E0		3/4	20	3/4-14	2	1.57	1.10	1.50	0.55	1.38	40	27.9	38	14	35	0.26	117
LZ07052V0	LZ07052E0		1	25	1-11	2	1.73	1.27	1.77	0.73	1.61	44	32.4	45	18.5	41	0.34	155
LZ07062V0	LZ07062E0		1 1/4	33	1 1/4-11	2	2.12	1.73	2.36	0.83	2.16	54	44.0	60	21	55	0.94	424
LZ07072V0	LZ07072E0		1 1/2	40	1 1/2-11	2	2.32	2.10	2.83	0.87	2.56	59	53.5	71.9	22	65	1.45	656
LZ07092V0	LZ07092E0		2	50	2-11	2	2.68	2.47	3.27	1.06	2.95	68	62.8	83	27	75	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.

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
	Anodized Aluminium	Anodized Aluminium
3/8	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



R4000 Series (Steel)



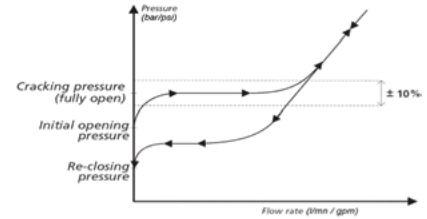
The Eaton R4000 Series steel check valves are designed for multipurpose hydraulic applications to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered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

Product Features

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

Operating Guidelines

The Eaton 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 Eaton technical support.



European Pressure Equipment Directive

Check valves with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. 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 97/23 EC. They should not be used to convey unstable gases. Our series R4000 check valves must not be used as safety devices (as per PED 97/23 EC).

Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure**				Rated Flow*	
		Non hazardous liquids & gases in Group 2		Hazardous liquids & gases in Group 1		L/min	(gpm)
		bar	(psi)	bar	(psi)		
1/8	3.8	700	10150	700	10150	4.5	1.19
1/4	5.7	700	10150	700	10150	14.2	3.75
3/8	7.6	700	10150	700	10150	22	5.81
1/2	10.3	500	7250	500	7250	32	8.45
3/4	14.2	500	7250	500	7250	72	19
1	16.5	500	7250	500	7250	117	30.9
1 1/4	20.5	300	4350	300	4350	188	49.66
1 1/2	25.8	300	4350	38	550	232	61.29
2	34.7	300	4350	28	405	393	103.81

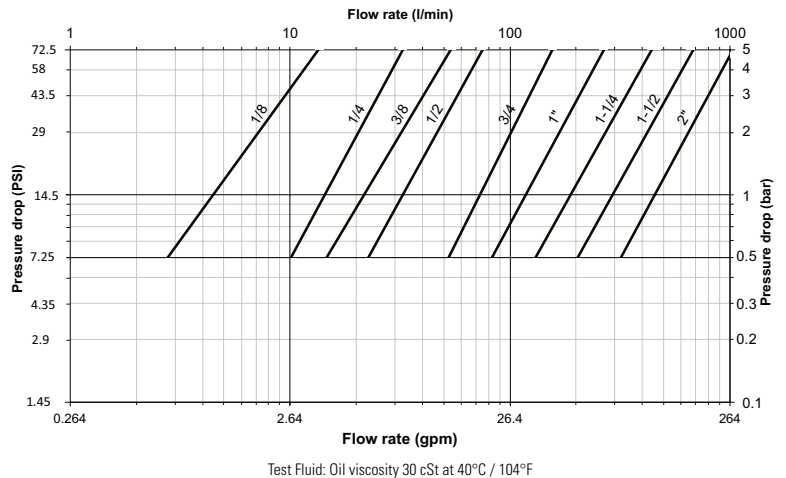
* Indicated values refer to a 1 bar/14.5 psi pressure drop.

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

Applications & Markets



- All industries
- Agriculture
- Construction
- Fluid transfer lines



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 Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

R4000 Series (Steel)

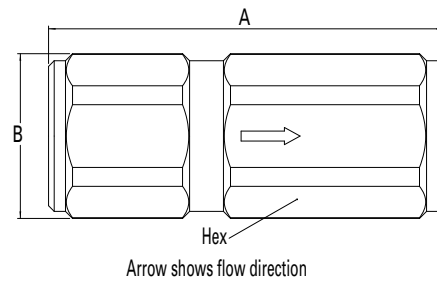


Fig. 1

Cracking Pressure 0.5 bar (7.25 psi)

Part Number	EPDM	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)	BSP	Fig.	Dimensions						Weight	
							A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)	lbs	grams
RZ04000V0	RZ04000E0	1/8	3.8	1/8	1	1	1.46	0.69	0.63	37	17.5	16	0.10	45
RZ04010V0	RZ04010E0	1/4	5.7	1/4	1	1	1.97	0.83	0.75	50	21	19	0.18	80
RZ04020V0	RZ04020E0	3/8	7.6	3/8	1	1	2.36	0.98	0.90	60	25	23	0.29	130
RZ04030V0	RZ04030E0	1/2	10.3	1/2	1	1	2.75	1.15	1.06	70	29.2	27	0.44	200
RZ04040V0	RZ04040E0	3/4	14.2	3/4	1	1	3.38	1.50	1.38	86	38	35	0.93	420
RZ04050V0	RZ04050E0	1	16.5	1	1	1	3.94	1.77	1.61	100	45	41	1.41	640
RZ04060V0	RZ04060E0	1 1/4	20.5	1 1/4	1	1	5.12	2.40	2.16	130	61	55	3.46	1570
RZ04070V0	RZ04070E0	1 1/2	25.8	1 1/2	1	1	5.31	2.83	2.56	135	72	65	5.16	2340
RZ04090V0	RZ04090E0	2	34.7	2	1	1	5.90	3.30	2.95**	150	84	75**	6.57	2980

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

** Across flat dimension.

Cracking Pressure 1 bar (14.5 psi)

Part Number	EPDM	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)	BSP	Fig.	Dimensions						Weight	
							A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)	lbs	grams
RZ04000VB	RZ04000EB	1/8	3.8	1/8	1	1	1.46	0.69	0.63	37	17.5	16	0.10	45
RZ04010VB	RZ04010EB	1/4	5.7	1/4	1	1	1.97	0.83	0.75	50	21	19	0.18	80
RZ04020VB	RZ04020EB	3/8	7.6	3/8	1	1	2.36	0.98	0.90	60	25	23	0.29	130
RZ04030VB	RZ04030EB	1/2	10.3	1/2	1	1	2.75	1.15	1.06	70	29.2	27	0.44	200
RZ04040VB	RZ04040EB	3/4	14.2	3/4	1	1	3.38	1.50	1.38	86	38	35	0.93	420
RZ04050VB	RZ04050EB	1	16.5	1	1	1	3.94	1.77	1.61	100	45	41	1.41	640
RZ04060VB	RZ04060EB	1 1/4	20.5	1 1/4	1	1	5.12	2.40	2.16	130	61	55	3.46	1570
RZ04070VB	RZ04070EB	1 1/2	25.8	1 1/2	1	1	5.31	2.83	2.56	135	72	65	5.16	2340
RZ04090VB	RZ04090EB	2	34.7	2	1	1	5.90	3.30	2.95**	150	84	75**	6.57	2980

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

** Across flat dimension.

R4000 Series (Brass)



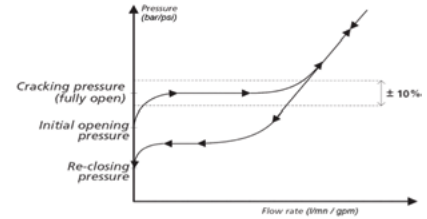
The Eaton R4000 Series brass check-valves are designed to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered upon request. It is designed to handle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

Product Features

- Standard body material: Nickel-plated brass
- Standard seal material: NBR, FKM, EPDM

Operating Guidelines

The Eaton 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 Eaton technical support.



European Pressure Equipment Directive

Check valves with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Check valves with nominal diameters greater than 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. They 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 97/23 EC).

Physical Characteristics

Body Size	Nominal Flow Diameter	Max. Operating Pressure**				Rated Flow*	L/min	gpm
		Non hazardous liquids		Hazardous liquids & Non-Hazardous Gases				
(in)	(mm)	bar	(psi)	bar	(psi)			
1/8	3.8	400	5800	400	5800	4.5	1.19	
1/4	5.7	400	5800	400	5800	14.2	3.75	
3/8	7.6	400	5800	400	5800	22	5.81	
1/2	10.3	250	3625	250	3625	32	8.45	
3/4	14.2	250	3625	250	3625	72	19	
1	16.5	250	3625	250	3625	117	30.9	
1 1/4	20.5	150	2175	150	2175	188	49.66	
1 1/2	25.8	150	2175	75	1085	232	61.29	
2	34.7	100	1450	25	360	393	103.81	

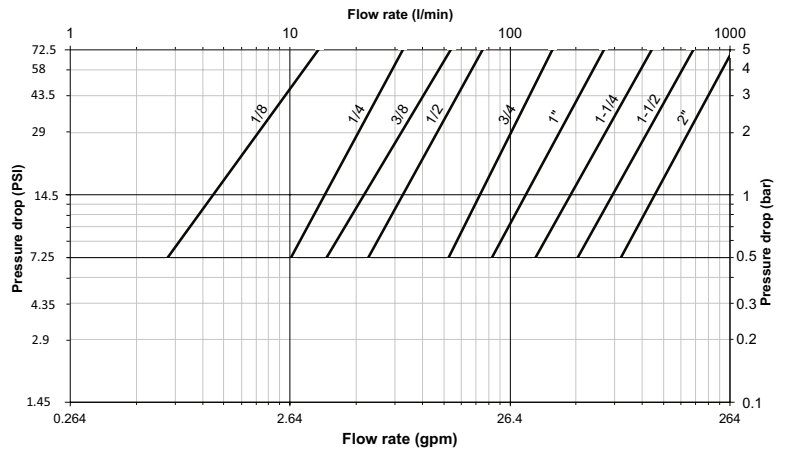
* Indicated values refer to a 1 bar/14.5 psi pressure drop.

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

Applications & Markets



- All industries
- Agriculture
- Construction
- Fluid transfer lines



Applicable to valves with 0.5 bar (7.25 psi) cracking pressure

Seal Elastomer Data*

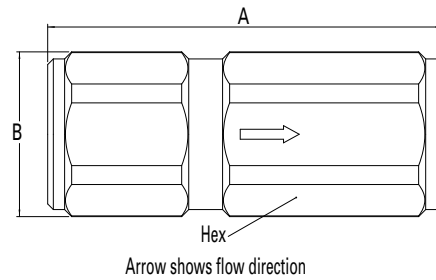
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

* For reference only, based on Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

R4000 Series (Brass)



Cracking Pressure 0.5 bar (7.25 psi)

Part Number	FKM	EPDM	Body Size	Nominal Flow Diameter	Thread Size** (Female)	Fig.	Dimensions						Weight	
							A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)	lbs	grams
RL0400000	RL04000V0	RL04000E0	1/8	3.8	1/8	1	1.46	0.69	0.63	37	17.5	16	0.11	50
RL0401000	RL04010V0	RL04010E0	1/4	5.7	1/4	1	1.97	0.83	0.75	50	21	19	0.19	85
RL0402000	RL04020V0	RL04020E0	3/8	7.6	3/8	1	2.36	0.98	0.9	60	25	23	0.31	140
RL0403000	RL04030V0	RL04030E0	1/2	10.3	1/2	1	2.75	1.15	1.06	70	29.2	27	0.47	215
RL0404000	RL04040V0	RL04040E0	3/4	14.2	3/4	1	3.38	1.50	1.38	86	38	35	1.01	460
RL0405000	RL04050V0	RL04050E0	1	16.5	1	1	3.94	1.77	1.61	100	45	41	1.52	690
-	RL04060V0	RL04060E0	1 1/4	20.5	1 1/4	1	5.12	2.40	2.16	130	61	55	3.73	1690
-	RL04070V0	RL04070E0	1 1/2	25.8	1 1/2	1	5.31	2.83	2.56	135	72	65	5.71	2590
-	RL04090V0	RL04090E0	2	34.7	2	1	5.90	3.30	2.95***	150	84	75***	7.50	3400

* Body sizes 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 Eaton technical support).

*** Across flat dimension.

Cracking Pressure 1 bar (14.5 psi)

Part Number	FKM	EPDM	Body Size	Nominal Flow Diameter	Thread Size** (Female)	Fig.	Dimensions						Weight	
							A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)	lbs	grams
RL040000B	RL04000VB	RL04000EB	1/8	3.8	1/8	1	1.46	0.69	0.63	37	17.5	16	0.11	50
RL040100B	RL04010VB	RL04010EB	1/4	5.7	1/4	1	1.97	0.83	0.75	50	21	19	0.19	85
RL040200B	RL04020VB	RL04020EB	3/8	7.6	3/8	1	2.36	0.98	0.90	60	25	23	0.31	140
RL040300B	RL04030VB	RL04030EB	1/2	10.3	1/2	1	2.75	1.15	1.06	70	29.2	27	0.47	215
RL040400B	RL04040VB	RL04040EB	3/4	14.2	3/4	1	3.38	1.50	1.38	86	38	35	1.01	460
RL040500B	RL04050VB	RL04050EB	1	16.5	1	1	3.94	1.77	1.61	100	45	41	1.52	690
-	RL04060VB	RL04060EB	1 1/4	20.5	1 1/4	1	5.12	2.40	2.16	130	61	55	3.73	1690
-	RL04070VB	RL04070EB	1 1/2	25.8	1 1/2	1	5.31	2.83	2.56	135	72	65	5.71	2590
-	RL04090VB	RL04090EB	2	34.7	2	1	5.90	3.30	2.95***	150	84	75***	7.50	3400

* Body sizes 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 Eaton technical support).

*** Across flat dimension.

R4000 Series (Stainless Steel)



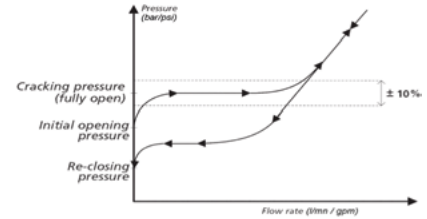
The Eaton R4000 Series stainless steel check-valves are designed to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered upon request. It is designed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

Product Features

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

Operating Guidelines

The Eaton 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 Eaton technical support.



European Pressure Equipment Directive

Check valves with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Check valves with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases. Our series R4000 check valves must not be used as safety devices (as per PED 97/23 EC).

Physical Characteristics

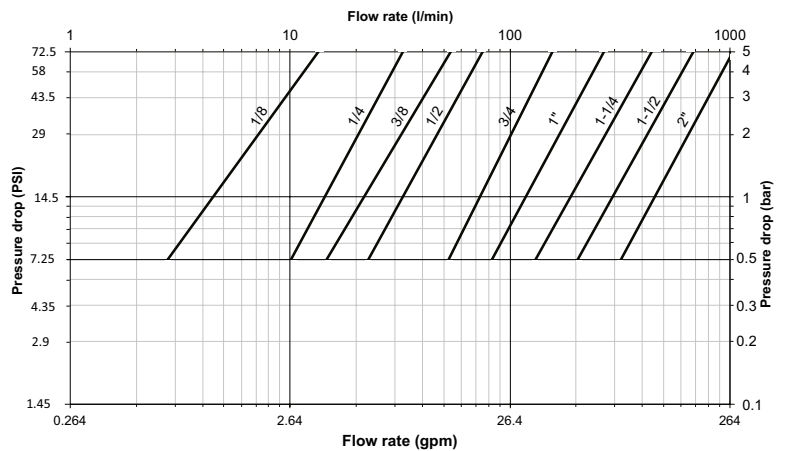
Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Rated Flow*	
		bar	(psi)	L/min	(gpm)
1/8	3.8	400	5800	4.5	1.19
1/4	5.7	400	5800	14.2	3.75
3/8	7.6	400	5800	22	5.81
1/2	10.3	250	3625	32	8.45
3/4	14.2	250	3625	72	19.00
1	16.5	250	3625	117	30.90
1 1/4	20.5	150	2175	188	49.66
1 1/2	25.8	150	2175	232	61.29
2	34.7	150	2175	393	103.81

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

Applications & Markets



- All industries
- Agriculture
- Construction
- Fluid transfer lines



Applicable to valves with 0.5 bar (7.25 psi) cracking pressure

Seal Elastomer Data*

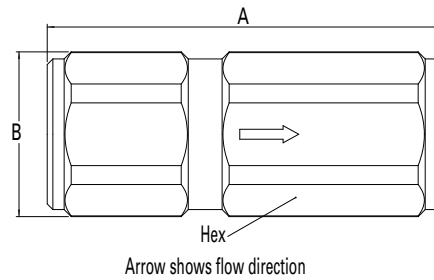
Seal Elastomer	Max. Operation Temperature Range
FKM (Fluorocarbon)*	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

* For reference only, based on Eaton recommended temperatures.

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

Contact Eaton technical support for further information on fluid compatibility.

R4000 Series (Stainless Steel)



Cracking Pressure 0.5 bar (7 psi)

Part Number	Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions								Weight	
				FKM	EPDM	(in)	(mm)	BSPP	Fig.	A (in)	B (in)	Hex (in)	A (mm)
RZ04000V0	RZ04000E0	½	3.8	½	1	1.46	0.69	0.63	37	175	16	0.10	45
RZ04010V0	RZ04010E0	¼	5.7	¼	1	1.97	0.83	0.75	50	21	19	0.18	80
RZ04020V0	RZ04020E0	¾	7.6	¾	1	2.36	0.98	0.90	60	25	23	0.29	130
RZ04030V0	RZ04030E0	½	10.3	½	1	2.75	1.15	1.06	70	29.2	27	0.44	200
RZ04040V0	RZ04040E0	¾	14.2	¾	1	3.38	1.50	1.38	86	38	35	0.93	420
RZ04050V0	RZ04050E0	1	16.5	1	1	3.94	1.77	1.61	100	45	41	1.41	640
RZ04060V0	RZ04060E0	1¼	20.5	1¼	1	5.12	2.40	2.16	130	61	55	3.46	1570
RZ04070V0	RZ04070E0	1½	25.8	1½	1	5.31	2.83	2.56	135	72	65	5.16	2340
RZ04090V0	RZ04090E0	2	34.7	2	1	5.90	3.30	2.95**	150	84	75**	6.57	2980

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

** Across flat dimension.

Cracking Pressure 1 bar (14.5 psi)

Part Number	Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions								Weight	
				FKM	EPDM	(in)	(mm)	BSPP	Fig.	A (in)	B (in)	Hex (in)	A (mm)
RZ04000VB	RZ04000EB	½	3.8	½	1	1.46	0.69	0.63	37	175	16	0.10	45
RZ04010VB	RZ04010EB	¼	5.7	¼	1	1.97	0.83	0.75	50	21	19	0.18	80
RZ04020VB	RZ04020EB	¾	7.6	¾	1	2.36	0.98	0.90	60	25	23	0.29	130
RZ04030VB	RZ04030EB	½	10.3	½	1	2.75	1.15	1.06	70	29.2	27	0.44	200
RZ04040VB	RZ04040EB	¾	14.2	¾	1	3.38	1.50	1.38	86	38	35	0.93	420
RZ04050VB	RZ04050EB	1	16.5	1	1	3.94	1.77	1.61	100	45	41	1.41	640
RZ04060VB	RZ04060EB	1¼	20.5	1¼	1	5.12	2.40	2.16	130	61	55	3.46	1570
RZ04070VB	RZ04070EB	1½	25.8	1½	1	5.31	2.83	2.56	135	72	65	5.16	2340
RZ04090VB	RZ04090EB	2	34.7	2	1	5.90	3.30	2.95**	150	84	75**	6.57	2980

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

** Across flat dimension.

W6000 Series (Steel) Thread-to-Connect



The Eaton W6000 Series steel quick disconnect coupling is a screw-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.

Product Features

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

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. 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 97/23 EC. They should not be used to convey unstable gases.

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

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 in Group 2		Hazardous liquids & gases in Group 1		bar	(psi)	L/min	(gpm)	
¼	5.7	1100	15950	1100	15950	30	435	11.6	3.06	1.1
⅜	7.6	750	10875	750	10875	30	435	16.7	4.41	1.9
½	10.3	750	10875	750	10875	30	435	25.5	6.74	2.8
¾	14.2	650	9425	650	9425	50	725	55	14.53	5.8
1	16.5	450	6525	450	6525	30	435	87	22.98	10.9
1¼	20.5	450	6525	450	6525	30	435	140	36.98	26.9
1½	25.8	300	4350	38	550	30	435	208	54.95	37.5
2	34.7	300	4350	28	405	30	435	357	94.30	81

* For pulsating pressures when disconnected apply a multiplier of 0.5

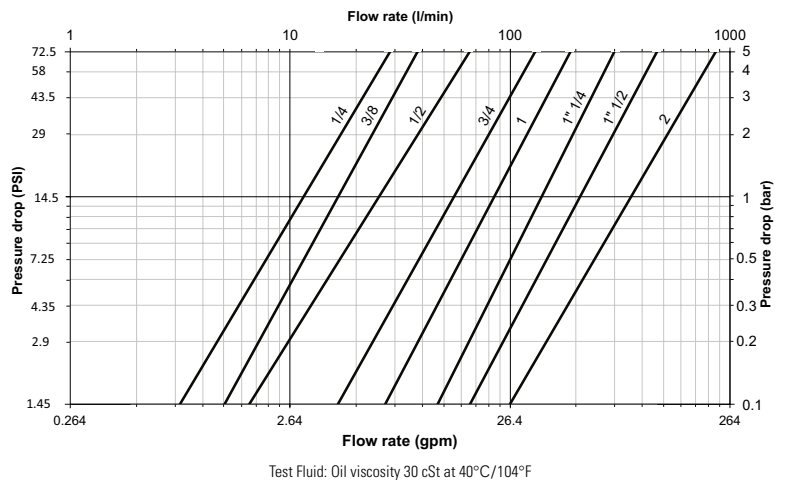
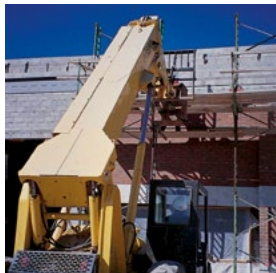
** Indicated values refer to a 1 bar/14.5 psi pressure drop.

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

Applications & Markets



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



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 Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility.

W6000 Series (Steel) Thread-to-Connect

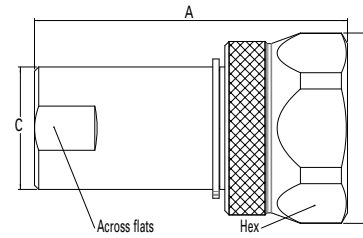


Fig. 1

Sockets (Female)

Part Number			Nominal Body Flow Size Diameter		Thread Size* (Female)			Dimensions							Weight					
NBR	FKM	EPDM	(in)	(mm)	NPT	BSPB	Metric	Fig. A	B	C	Across Flats	Hex	A	B	C	Across Flats	Hex	lbs	grams	
								(in)												
								(mm)												
WA0601700	WA06017V0	WA06017E0	¼	5.7	-	¼-19	-	1	2.09	1.38	0.83	0.75	1.26	53	35	21	19	32	0.32	144
WA0621700	WA06217V0	WA06217E0	¼	5.7	¼-18	-	-	1	2.09	1.38	0.83	0.75	1.26	53	35	21	19	32	0.32	144
WA0602700	WA06027V0	WA06027E0	⅜	7.6	-	⅜-19	-	1	2.56	1.50	0.98	0.90	1.38	65	38	25	23	35	0.48	217
WA0622700	WA06227V0	WA06227E0	⅜	7.6	⅜-18	-	-	1	2.56	1.50	0.98	0.90	1.38	65	38	25	23	35	0.48	217
WA0603700	WA06037V0	WA06037E0	½	10.3	-	½-14	-	1	2.91	1.77	1.14	1.06	1.61	74	45	29	27	41	0.71	320
WA0623700	WA06237V0	WA06237E0	½	10.3	½-14	-	-	1	2.91	1.77	1.14	1.06	1.61	74	45	29	27	41	0.71	320
WA0633700	WA06337V0	WA06337E0	½	10.3	-	-	M22x1.5	1	2.91	1.77	1.14	1.06	1.61	74	45	29	27	41	0.71	320
WA0604700	WA06047V0	WA06047E0	¾	14.2	-	¾-14	-	1	3.58	2.16	1.50	1.38	1.97	91	55	38	35	50	1.32	600
WA0624700	WA06247V0	WA06247E0	¾	14.2	¾-14	-	-	1	3.58	2.16	1.50	1.38	1.97	91	55	38	35	50	1.32	600
WA0605700	WA06057V0	WA06057E0	1	16.5	-	1-11	-	1	4.05	2.72	1.81	1.61	2.56	103	69	46	41	65	2.41	1092
WA0625700	WA06257V0	WA06257E0	1	16.5	1-11½	-	-	1	4.05	2.72	1.81	1.61	2.56	103	69	46	41	65	2.41	1092
WA0635700	WA06357V0	WA06357E0	1	16.5	-	-	M33x1.5	1	4.05	2.72	1.81	1.61	2.56	103	69	46	41	65	2.41	1092
WA0606700	WA06067V0	WA06067E0	1¼	20.5	-	1¼-11	-	1	5.71	3.50	2.36	2.16	3.03	145	89	60	55	77	6.13	2780
WA0626700	WA06267V0	WA06267E0	1¼	20.5	1¼-11½	-	-	1	5.71	3.50	2.36	2.16	3.03	145	89	60	55	77	6.13	2780
WA0607700	WA06077V0	WA06077E0	1½	25.8	-	1½-11	-	1	6.81	3.94	2.64	2.48	3.46	173	100	67	63	88	9.26	4200
WA0627700	WA06277V0	WA06277E0	1½	25.8	1½-11½	-	-	1	6.81	3.94	2.64	2.48	3.46	173	100	67	63	88	9.26	4200
WA0609700	WA06097V0	WA06097E0	2	34.7	-	2-11	-	1	8.07	4.60	3.07	2.80	4.13	205	117	78	71	105	14.64	6640
WA0629700	WA06297V0	WA06297E0	2	34.7	2-11½	-	-	1	8.07	4.60	3.07	2.80	4.13	205	117	78	71	105	14.64	6640

* Alternative end connections available upon request.

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

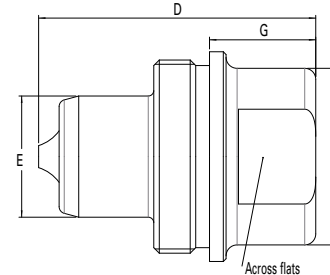


Fig. 2

Plugs (Male)

Part Number			Nominal Body Flow Size Diameter		Thread Size* (Female)			Dimensions							Weight					
NBR	FKM	EPDM	(in)	(mm)	NPT	BSPB	Metric	Fig. D	E	F	G	Across Flats	D	E	F	G	Across Flats	lbs	grams	
								(in)												
								(mm)												
WA0601400	WA06014V0	WA06014E0	¼	5.7	-	¼-19	-	2	1.38	0.59	0.90	0.45	0.75	35	15	23	11.5	19	0.16	71
WA0621400	WA06214V0	WA06214E0	¼	5.7	¼-18	-	-	2	1.38	0.59	0.90	0.45	0.75	35	15	23	11.5	19	0.16	71
WA0602400	WA06024V0	WA06024E0	⅜	7.6	-	⅜-19	-	2	1.65	0.75	1.02	0.52	0.90	42	19	26	13	23	0.23	104
WA0622400	WA06224V0	WA06224E0	⅜	7.6	⅜-18	-	-	2	1.65	0.75	1.02	0.52	0.90	42	19	26	13	23	0.23	104
WA0603400	WA06034V0	WA06034E0	½	10.3	-	½-14	-	2	1.97	0.87	1.26	0.77	1.06	50	22	32	19.5	27	0.36	165
WA0623400	WA06234V0	WA06234E0	½	10.3	½-14	-	-	2	1.97	0.87	1.26	0.77	1.06	50	22	32	19.5	27	0.36	165
WA0633400	WA06334V0	WA06334E0	½	10.3	-	-	M22x1.5	2	1.97	0.87	1.26	0.77	1.06	50	22	32	19.5	27	0.36	165
WA0604400	WA06044V0	WA06044E0	¾	14.2	-	¾-14	-	2	2.48	1.14	1.65	1.02	1.38	63	29	42	26	35	0.84	382
WA0624400	WA06244V0	WA06244E0	¾	14.2	¾-14	-	-	2	2.48	1.14	1.65	1.02	1.38	63	29	42	26	35	0.84	382
WA0605400	WA06054V0	WA06054E0	1	16.5	-	1-11	-	2	2.80	1.42	1.89	1.14	1.61	71	36	48	29	41	1.29	585
WA0625400	WA06254V0	WA06254E0	1	16.5	1-11½	-	-	2	2.80	1.42	1.89	1.14	1.61	71	36	48	29	41	1.29	585
WA0635400	WA06354V0	WA06354E0	1	16.5	-	-	M33x1.5	2	2.80	1.42	1.89	1.14	1.61	71	36	48	29	41	1.29	585
WA0606400	WA06064V0	WA06064E0	1¼	20.5	-	1¼-11	-	2	3.82	2.00	2.36	1.45	2.16	97	50.9	60	37	55	3.22	1460
WA0626400	WA06264V0	WA06264E0	1¼	20.5	1¼-11½	-	-	2	3.82	2.00	2.36	1.45	2.16	97	50.9	60	37	55	3.22	1460
WA0607400	WA06074V0	WA06074E0	1½	25.8	-	1½-11	-	2	4.29	2.24	2.64	1.22	2.48	109	56.9	67	31	63	4.50	2040
WA0627400	WA06274V0	WA06274E0	1½	25.8	1½-11½	-	-	2	4.29	2.24	2.64	1.22	2.48	109	56.9	67	31	63	4.50	2040
WA0609400	WA06094V0	WA06094E0	2	34.7	-	2-11	-	2	5.08	2.73	3.07	1.32	2.80	129	69.4	78	33	71	7.05	3200
WA0629400	WA06294V0	WA06294E0	2	34.7	2-11½	-	-	2	5.08	2.73	3.07	1.32	2.80	129	69.4	78	33	71	7.05	3200

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



W6000 Series (Stainless Steel) Thread-to-Connect



The Eaton 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.

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 aluminium)
- 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 Eaton technical support for further information)

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*		Maximum Residual Pressure during Connection***		Rated Flow**		Fluid Loss ml-cc.
		bar	(psi)	L/min	(gpm)	L/min	(gpm)	
¼	5.7	1100	15950	30	435	11.6	3.06	1.1
⅜	7.6	750	10875	30	435	16.7	4.41	1.9
½	10.3	750	10875	30	435	25.5	6.74	2.8
¾	14.2	650	9425	50	725	55	14.53	5.8
1	16.5	450	6525	30	435	87	22.98	10.9
1¼	20.5	450	6525	30	435	140	36.98	26.9
1½	25.8	300	4350	30	435	208	54.95	37.5
2	34.7	300	4350	30	435	357	94.30	81.0

* For pulsating pressures when disconnected apply a multiplier of 0.5

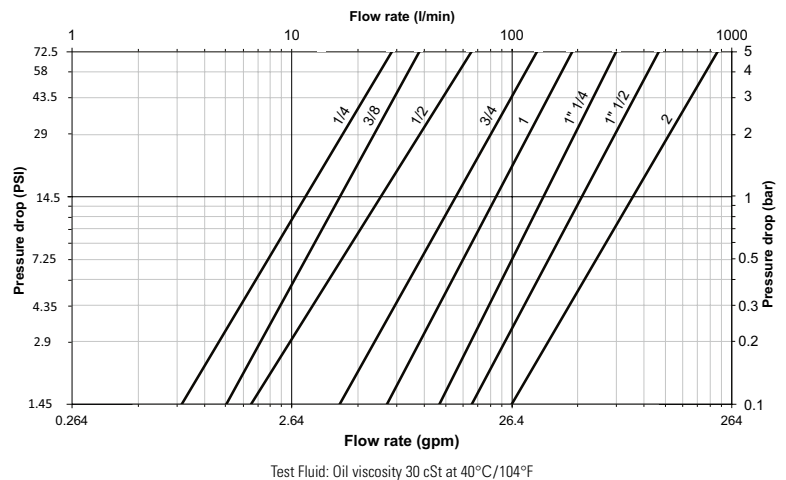
** Indicated values refer to a 1 bar/14.5 psi pressure drop.

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

Applications & Markets



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



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 Eaton recommended temperatures. Contact Eaton technical support for further information on fluid compatibility.

W6000 Series (Stainless Steel) Thread-to-Connect Couplings

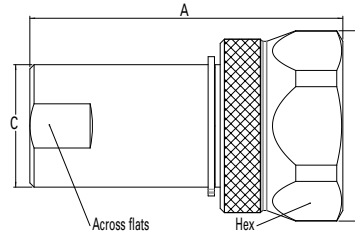


Fig. 1

Sockets (Female)

Part Number*		Body Size	Nominal Flow Diameter	Thread Size**	Dimensions											Weight		
FKM	EPDM				(in)	(mm)	NPT	BSPP	Fig.	A (in)	B (in)	C (in)	Across Flats (in)	Hex (in)	A (mm)	B (mm)	C (mm)	Across Flats (mm)
WV06017V0	WV06017E0	¼	5.7	-	¼-19	1	2.09	1.38	0.83	0.75	1.26	53	35	21	19	32	0.32	144
WV06217V0	WV06217E0	¼	5.7	¼-18	-	1	2.09	1.38	0.83	0.75	1.26	53	35	21	19	32	0.32	144
WV06027V0	WV06027E0	⅜	7.6	-	⅜-19	1	2.56	1.50	0.98	0.90	1.38	65	38	25	23	35	0.48	217
WV06227V0	WV06227E0	⅜	7.6	⅜-18	-	1	2.56	1.50	0.98	0.90	1.38	65	38	25	23	35	0.48	217
WV06037V0	WV06037E0	½	10.3	-	½-14	1	2.91	1.77	1.14	1.06	1.61	74	45	29	27	41	0.71	320
WV06237V0	WV06237E0	½	10.3	½-14	-	1	2.91	1.77	1.14	1.06	1.61	74	45	29	27	41	0.71	320
WV06047V0	WV06047E0	¾	14.2	-	¾-14	1	3.58	2.16	1.50	1.38	1.97	91	55	38	35	50	1.32	600
WV06247V0	WV06247E0	¾	14.2	¾-14	-	1	3.58	2.16	1.50	1.38	1.97	91	55	38	35	50	1.32	600
WV06057V0	WV06057E0	1	16.5	-	1-11	1	4.05	2.72	1.81	1.61	2.56	103	69	46	41	65	2.41	1092
WV06257V0	WV06257E0	1	16.5	1-11½	-	1	4.05	2.72	1.81	1.61	2.56	103	69	46	41	65	2.41	1092
WV06067V0	WV06067E0	1¼	20.5	-	1¼-11	1	5.71	3.50	2.36	2.16	3.03	145	89	60	55	77	6.13	2780
WV06267V0	WV06267E0	1¼	20.5	1¼-11½	-	1	5.71	3.50	2.36	2.16	3.03	145	89	60	55	77	6.13	2780
WV06077V0	WV06077E0	1½	25.8	-	1½-11	1	6.81	3.94	2.64	2.48	3.46	173	100	67	63	88	9.26	4200
WV06277V0	WV06277E0	1½	25.8	1½-11½	-	1	6.81	3.94	2.64	2.48	3.46	173	100	67	63	88	9.26	4200
WV06097V0	WV06097E0	2	34.7	-	2-11	1	8.07	4.60	3.07	2.80	4.13	205	117	78	71	105	14.64	6640
WV06297V0	WV06297E0	2	34.7	2-11½	-	1	8.07	4.60	3.07	2.80	4.13	205	117	78	71	105	14.64	6640

* 1.4404 AISI 316L stainless steel available on request. Please contact Eaton 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.

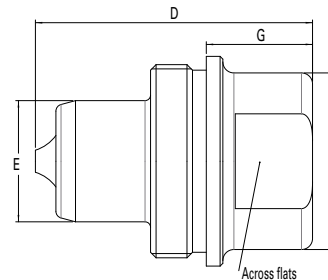


Fig. 2

Plugs (Male)

Part Number*		Body Size	Nominal Flow Diameter	Thread Size**	Dimensions											Weight		
FKM	EPDM				(in)	(mm)	NPT	BSPP	Fig.	D (in)	E (in)	F (in)	G (in)	Across Flats (in)	D (mm)	E (mm)	F (mm)	G (mm)
WV06014V0	WV06014E0	¼	5.7	-	¼-19	2	1.38	0.59	0.90	0.45	0.75	35	15	23	11.5	19	0.16	71
WV06214V0	WV06214E0	¼	5.7	¼-18	-	2	1.38	0.59	0.90	0.45	0.75	35	15	23	11.5	19	0.16	71
WV06024V0	WV06024E0	⅜	7.6	-	⅜-19	2	1.65	0.75	1.02	0.52	0.90	42	19	26	13	23	0.23	104
WV06224V0	WV06224E0	⅜	7.6	⅜-18	-	2	1.65	0.75	1.02	0.52	0.90	42	19	26	13	23	0.23	104
WV06034V0	WV06034E0	½	10.3	-	½-14	2	1.97	0.87	1.26	0.77	1.06	50	22	32	19.5	27	0.36	165
WV06234V0	WV06234E0	½	10.3	½-14	-	2	1.97	0.87	1.26	0.77	1.06	50	22	32	19.5	27	0.36	165
WV06044V0	WV06044E0	¾	14.2	-	¾-14	2	2.48	1.14	1.65	1.02	1.38	63	29	42	26	35	0.84	382
WV06244V0	WV06244E0	¾	14.2	¾-14	-	2	2.48	1.14	1.65	1.02	1.38	63	29	42	26	35	0.84	382
WV06054V0	WV06054E0	1	16.5	-	1-11	2	2.80	1.42	1.89	1.14	1.61	71	36	48	29	41	1.29	585
WV06254V0	WV06254E0	1	16.5	1-11½	-	2	2.80	1.42	1.89	1.14	1.61	71	36	48	29	41	1.29	585
WV06064V0	WV06064E0	1¼	20.5	-	1¼-11	2	3.82	2.00	2.36	1.45	2.16	97	50.9	60	37	55	3.22	1460
WV06264V0	WV06264E0	1¼	20.5	1¼-11½	-	2	3.82	2.00	2.36	1.45	2.16	97	50.9	60	37	55	3.22	1460
WV06074V0	WV06074E0	1½	25.8	-	1½-11	2	4.29	2.24	2.64	1.22	2.48	109	56.9	67	31	63	4.50	2040
WV06274V0	WV06274E0	1½	25.8	1½-11½	-	2	4.29	2.24	2.64	1.22	2.48	109	56.9	67	31	63	4.50	2040
WV06094V0	WV06094E0	2	34.7	-	2-11	2	5.08	2.73	3.07	1.32	2.80	129	69.4	78	33.5	71	7.05	3200
WV06294V0	WV06294E0	2	34.7	2-11½	-	2	5.08	2.73	3.07	1.32	2.80	129	69.4	78	33.5	71	7.05	3200

* 1.4404 AISI 316L stainless steel available on request. Please contact Eaton 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 Couplings

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part Number Anodized Aluminium	Plug Dust Cap Part Number Anodized Aluminium
1/4	WD0611700	WD0611400
3/8	WD0612700	WD0612400
1/2	WD0613700	WD0613400
3/4	WD0614700	WD0614400
1	WD0615700	WD0615400
1 1/4	WD0616700	WD0616400
1 1/2	WD0617700	WD0617400
2	WD0619700	WD0619400

Socket dust plug



Plug dust cap



W36000 Series Thread-to-Connect



Eaton's 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 3/4", 1" & 1 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 3.3 of the European Pressure Equipment Directive (PED) 97/23 EC
- 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 aluminium)
- 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-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)
1/4	5.3	450	6525	50	725	12	3.17
3/8	7.3	450	6525	50	725	21	5.55
1/2	10.2	400** 250***	5800** 3625***	50	725	43	11.36
3/4	13.0	400	5800	50	725	77	20.34
1	16.9	300	4350	50	725	120	31.70
1 1/4	22.4	300	4350	50	725	300	79.25

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

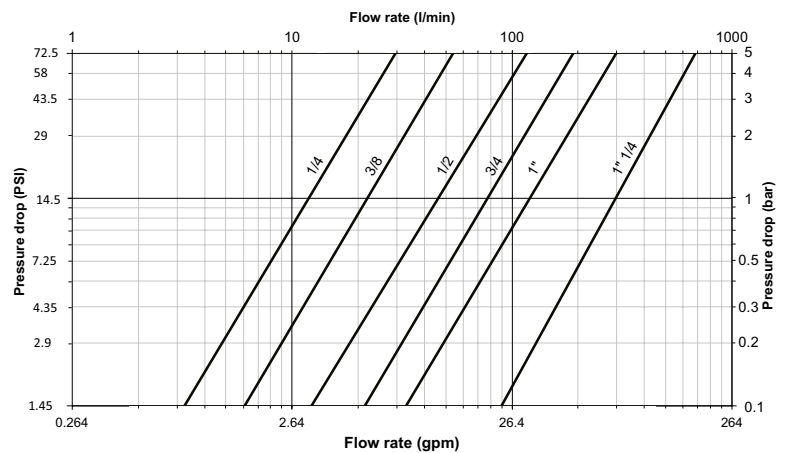
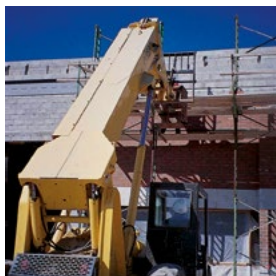
** Operating pressures apply to BSPP and NPT threads.

*** For ISO 8434-1 end connections.

Applications & Markets



- Construction
- Agriculture
- Forestry machinery
- Snow-grooming machines



Seal Elastomer Data*

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

* For reference only, based on Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility.

W36000 Series Thread-to-Connect

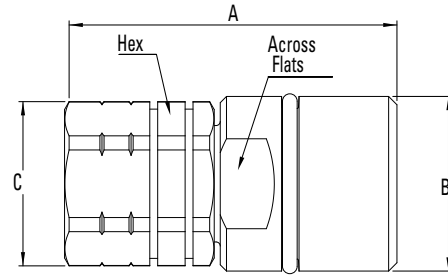


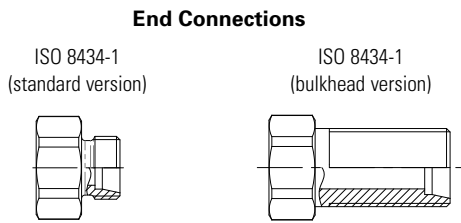
Fig. 1

Sockets (Female) with Internal Thread

Part Number*	Body Size	Nominal Flow Diameter		Thread Size* (Female)		Fig.	Dimensions							Weight			
		(in)	(mm)	NPT	BSPP		A (in)	B (in)	C (in)	Across Flats (in)	Hex (in)	A (mm)	B (mm)	C (mm)	Across Flats (mm)	Hex (mm)	lbs
WA3601700	¼	5.3	-	¼-19	1	2.28	0.94	0.94	0.87	0.87	58	M24x2	24	22	22	0.26	117
WA3621725	¼	5.3	¼-18	-	1	2.28	0.94	0.94	0.87	0.87	58	M24x2	24	22	22	0.30	138
WA3602725BS	¾	7.3	-	¼-19	1	2.40	1.10	0.94	0.94	0.87	61	M28x2	24	24	22	0.36	163
WA3622725	¾	7.3	¼-18	-	1	2.40	1.10	0.94	0.94	0.87	61	M28x2	24	24	22	0.36	165
WA3602700	¾	7.3	-	¾-19	1	2.40	1.10	0.94	0.94	0.87	61	M28x2	24	24	22	0.34	156
WA3622737	¾	7.3	¾-18	-	1	2.40	1.10	0.94	0.94	0.87	61	M28x2	24	24	22	0.35	158
WA3603737BS	½	10.2	-	¾-19	1	2.84	1.42	1.18	1.61(Hex)	1.06	72	M36x2	30	41(Hex)	27	0.82	370
WA3623737	½	10.2	¾-18	-	1	2.84	1.42	1.18	1.61(Hex)	1.06	72	M36x2	30	41(Hex)	27	0.82	372
WA3603700	½	10.2	-	½-14	1	2.95	1.42	1.18	1.61(Hex)	1.06	75	M36x2	30	41(Hex)	27	0.79	360
WA3623750	½	10.2	½-14	-	1	2.95	1.42	1.18	1.61(Hex)	1.06	75	M36x2	30	41(Hex)	27	0.80	361
WA3604750BS	¾	13	-	½-14	1	3.15	1.65	1.57	1.42	1.42	80	M42x2	40	36	36	1.06	480
WA3624750	¾	13	½-14	-	1	3.15	1.65	1.57	1.42	1.42	80	M42x2	40	36	36	1.07	484
WA3604700	¾	13	-	¾-14	1	3.15	1.65	1.57	1.42	1.42	80	M42x2	40	36	36	1.03	466
WA3624775	¾	13	¾-14	-	1	3.15	1.65	1.57	1.42	1.42	80	M42x2	40	36	36	1.04	472
WA3605775BS	1	16.9	-	¾-14	1	3.78	1.89	1.81	1.65	1.65	96	M48x3	46	42	42	1.62	735
WA3625775	1	16.9	¾-14	-	1	3.78	1.89	1.81	1.65	1.65	96	M48x3	46	42	42	1.63	741
WA3605700	1	16.9	-	1-11	1	3.78	1.89	1.81	1.65	1.65	96	M48x3	46	42	42	1.51	684
WA36257100	1	16.9	1-11½	-	1	3.78	1.89	1.81	1.65	1.65	96	M48x3	46	42	42	1.53	694
WA3606700	1¼	22.4	-	1¼-11	1	4.96	2.76	2.83	2.56	2.56	126	M70x3	72	65	65	4.82	2185
WA36267125	1¼	22.4	1¼-11½	-	1	4.96	2.76	2.83	2.56	2.56	126	M70x3	72	65	65	4.87	2207
WA36067150BS	1¼	22.4	-	1½-11	1	4.96	2.76	2.83	2.56	2.56	126	M70x3	72	65	65	4.63	2101
WA36267150	1¼	22.4	1½-11½	-	1	4.96	2.76	2.83	2.56	2.56	126	M70x3	72	65	65	4.68	2121

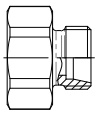
* Alternative end connections upon request.

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



End Connections

ISO 8434-1
(standard version)



ISO 8434-1
(bulkhead version)

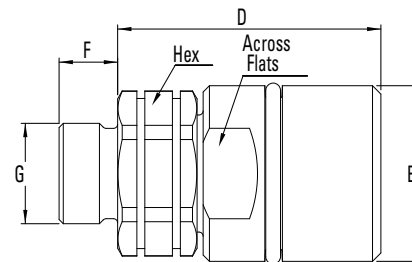
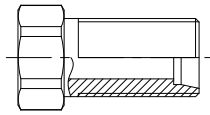


Fig. 2

Sockets (Female) with External Thread

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

* Alternative end connections 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

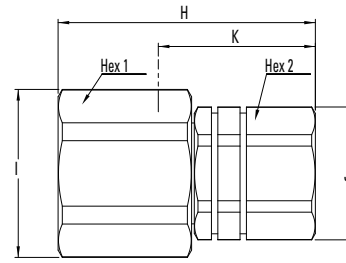


Fig. 3

Plugs (Male) with Internal Thread

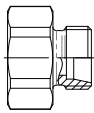
Part Number	Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions														Weight	
				NPT	BSPP	Fig.	H (in)	I (in)	J (in)	K (in)	Hex 1 (in)	Hex 2 (in)	H (mm)	I (mm)	J (mm)	K (mm)	Hex 1 (mm)	Hex 2 (mm)	lbs
WA3601400	¼	5.3	-	¼-19	3	2.17	1.26	0.94	1.22	1.14	0.87	55	32	24	31	29	22	0.41	184
WA3621425	¼	5.3	¼-18	-	3	2.17	1.26	0.94	1.22	1.14	0.87	55	32	24	31	29	22	0.33	150
WA3602425BS	¾	7.3	-	¼-19	3	2.28	1.38	0.94	1.26	1.26	0.87	58	35	24	32	32	22	0.36	164
WA3622425	¾	7.3	¼-18	-	3	2.28	1.38	0.94	1.26	1.26	0.87	58	35	24	32	32	22	0.37	166
WA3602400	¾	7.3	-	¾-19	3	2.28	1.38	0.94	1.26	1.26	0.87	58	35	24	32	32	22	0.35	158
WA3622437	¾	7.3	¾-18	-	3	2.28	1.38	0.94	1.26	1.26	0.87	58	35	24	32	32	22	0.35	160
WA3603437BS	½	10.2	-	¾-19	3	2.52	1.77	1.18	1.46	1.61	1.06	64	45	30	37	41	27	0.61	276
WA3623437	½	10.2	¾-18	-	3	2.52	1.77	1.18	1.46	1.61	1.06	64	45	30	37	41	27	0.61	278
WA3603400	½	10.2	-	½-14	3	2.60	1.77	1.18	1.57	1.61	1.06	66	45	30	40	41	27	0.60	271
WA3623450	½	10.2	½-14	-	3	2.60	1.77	1.18	1.57	1.61	1.06	66	45	30	40	41	27	0.60	273
WA3604450BS	¾	13.0	-	½-14	3	3.03	1.97	1.57	1.85	1.81	1.42	77	50	40	47	46	36	1.01	456
WA3624450	¾	13.0	½-14	-	3	3.03	1.97	1.57	1.85	1.81	1.42	77	50	40	47	46	36	1.01	460
WA3604400	¾	13.0	-	¾-14	3	3.03	1.97	1.57	1.85	1.81	1.42	77	50	40	47	46	36	0.97	442
WA3624475	¾	13.0	¾-14	-	3	3.03	1.97	1.57	1.85	1.81	1.42	77	50	40	47	46	36	0.99	448
WA3605475BS	1	16.9	-	¾-14	3	3.62	2.36	1.81	2.24	2.17	1.65	92	60	46	57	55	42	1.77	805
WA3625475	1	16.9	¾-14	-	3	3.62	2.36	1.81	2.24	2.17	1.65	92	60	46	57	55	42	1.79	811
WA3605400	1	16.9	-	1-11	3	3.62	2.36	1.81	2.24	2.17	1.65	92	60	46	57	55	42	1.66	751
WA36254100	1	16.9	1-11 ½	-	3	3.62	2.36	1.81	2.24	2.17	1.65	92	60	46	57	55	42	1.68	761
WA3606400	1 ¼	22.4	-	1 ¼-11	3	4.72	3.50	2.83	2.76	3.03	2.56	120	89	72	70	77	65	5.56	2520
WA36264125	1 ¼	22.4	1 ¼-11 ½	-	3	4.72	3.50	2.83	2.76	3.03	2.56	120	89	72	70	77	65	5.60	2542
WA36064150BS	1 ¼	22.4	-	1 ½-11	3	4.72	3.50	2.83	2.76	3.03	2.56	120	89	72	70	77	65	5.37	2436
WA36264150	1 ¼	22.4	1 ½-11 ½	-	3	4.72	3.50	2.83	2.76	3.03	2.56	120	89	72	70	77	65	5.41	2456

* 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.

End Connections

ISO 8434-1
(standard version)



ISO 8434-1
(bulkhead version)

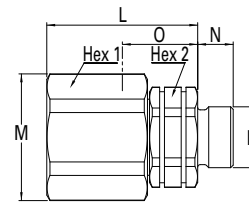
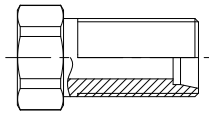


Fig. 4

Plugs (Male) with External Thread

Part Number	Body Size	Nominal Flow Diameter	Thread Size* (Male)	Dimensions														Weight		
				ISO 8434-1**	Fig.	L (in)	M (in)	N (in)	O (in)	P (in)	Hex 1 (in)	Hex 2 (in)	L (mm)	M (mm)	N (mm)	O (mm)	P (mm)	Hex 1 (mm)	Hex 2 (mm)	lbs
WA3633408L	½	10.2	M14x1.5 - 8L	4	1.93	1.77	0.39	1.42	0.55	1.61	1.06	49	45	10	36	M14x1.5	41	27	0.56	255
WA3633410L			M16x1.5 - 10L	4	1.93	1.77	0.43	1.42	0.63	1.61	1.06	49	45	11	36	M16x1.5	41	27	0.56	253
WA3633412L			M18x1.5 - 12L	4	1.93	1.77	0.43	1.42	0.71	1.61	1.06	49	45	11	36	M18x1.5	41	27	0.56	255
WA3633415L			M22x1.5 - 15L	4	1.93	1.77	0.47	1.42	0.87	1.61	1.06	49	45	12	36	M22x1.5	41	27	0.61	275
WA3633415LBH			M22x1.5 - 15L Bulkhead	4	1.93	1.77	1.50	1.42	0.87	1.61	1.06	49	45	38	36	M22x1.5	41	27	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 Number		Plug Dust Cap Part Number	
	Anodized Aluminium	PVC	Anodized Aluminium	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
1 ¼	WD3616700	WP3616700	WD3616400	WP3616400

For installation instructions, please contact your Eaton 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 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
1 ½	WG3606700	1 seal + 1 back-up ring

* The valve seal is not included in our repair kits

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