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

For over 90 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.
Safety Information for Eaton Quick Disconnect Couplings

1.0 General Instructions.

1.1 Scope. The scope of this safety bulletin is to warn against improper selection, use, installation, etc. of 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, rupture may result.

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
1. Both the elastomer and the metal must be considered when determining suitability of combination for a coupling.
2. Locate the fluid to be conveyed and determine the suitability of the elastomeric and metal components according to the resistance rating shown for each.
3. Dimensional and operation specifications for each coupling can be found on the catalog pages.
4. Information on seal options for couplings, and how to specify them, are shown in the respective sections of this catalog.
5. Be sure to check the table below for maximum operating temperature range of the elastomer desired.
6. For further details on the products shown in this catalog, and their applications, consult your Eaton Sales Representative or Eaton Technical Support.
7. Coupling component materials may differ from body material. Refer to specific catalog pages.

Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer**</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buna-N</td>
<td>-40°F to +250°F (-40°C to +121°C)</td>
</tr>
<tr>
<td>Neoprene</td>
<td>-65°F to +212°F (-54°C to +100°C)</td>
</tr>
<tr>
<td>EPDM</td>
<td>-65°F to +300°F (-54°C to +149°C)</td>
</tr>
<tr>
<td>FKM</td>
<td>-15°F to +400°F (-29°C to +204°C)</td>
</tr>
</tbody>
</table>

*For reference only, based on Eaton recommended temperatures.
**For seals not listed contact Eaton.

Contact Eaton technical support for further information.

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”.

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.

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

Fluid  Seals  Metal
Aluminum Chloride, 10% aq  E  E  E  U  C  E  C
Alums, 10% aq  E  E  E  E  U  C  E  C
Ammonia, Cold  E  E  E  U  E  U  E  E
Ammonia, Hot  U  G  G  U  E  U  E  E
Ammonia, Anhydrous  G  G  E  U  E  U  E  E
Ammonia, Aqueous  E  E  E  E  U  U  E  E
Ammonium Carbonate, 10% aq  E  E  U  C  U  C  C
Ammonium Chloride, 10% aq  E  E  E  U  U  C  U  C
Ammonium Hydroxide, 10% aq  C  C  E  C  G  U  C  C
Ammonium Nitrate, 10% aq  E  G  E  U  G  G  G
Ammonium Phosphate, 10% aq  E  E  E  –  U  C  G  U
Ammonium Sulfate/Sulfide, 10% aq  E  E  E  U  U  G  U  G
Amyl Acetate  U  G  G  U  E  E  E
Amyl Alcohol  G  C  E  G  G  B  E  U
Aniline, Aniline Oil  U  U  G  U  E  E  G
## Fluid Compatibility

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Seals</th>
<th>Metal</th>
<th>Fluid</th>
<th>Seals</th>
<th>Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aniline Dyes</td>
<td>U G G G C G C</td>
<td></td>
<td>Chronic Acid</td>
<td>U U C E C U U</td>
<td></td>
</tr>
<tr>
<td>Asphalt, &lt; 200°F</td>
<td>G C C E E G E C</td>
<td></td>
<td>Citric Acid</td>
<td>E E E E C C C C</td>
<td></td>
</tr>
<tr>
<td>IRM 501 Oil</td>
<td>E E C E E E E</td>
<td></td>
<td>Copper Chloride, 10% aq</td>
<td>E E E E U U U U</td>
<td></td>
</tr>
<tr>
<td>IRM 502 Oil</td>
<td>E G U E E E E</td>
<td></td>
<td>Copper Cyanide, 10% aq</td>
<td>E E E E E U U U</td>
<td></td>
</tr>
<tr>
<td>IRM 503 Oil</td>
<td>E C U E E E E</td>
<td></td>
<td>Copper Sulfate, 10% aq</td>
<td>E E E E U C G U</td>
<td></td>
</tr>
<tr>
<td>Barium Chloride, 10% aq</td>
<td>E E E U G G G</td>
<td></td>
<td>Cresote (Coal Tar)</td>
<td>G C U E E C E E</td>
<td></td>
</tr>
<tr>
<td>Barium Hydroxide, 105 aq</td>
<td>E E E E G G U</td>
<td></td>
<td>Crude Oil</td>
<td>E G U E G U G U</td>
<td></td>
</tr>
<tr>
<td>Barium Sulfide, 10% aq</td>
<td>E E E E C U G U</td>
<td></td>
<td>Cyclotexanol</td>
<td>E G U E E E E E C</td>
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</tr>
<tr>
<td>Benzene, Benzoil</td>
<td>U U U E G E E G</td>
<td></td>
<td>Detergent/Water Solution</td>
<td>E E E E G E E</td>
<td></td>
</tr>
<tr>
<td>Benzocid</td>
<td>U U U E G G G</td>
<td></td>
<td>Diacetone Alchohol (Acetol)</td>
<td>U U E E E E E</td>
<td></td>
</tr>
<tr>
<td>Benzylic Alcohol</td>
<td>U G G E G E G</td>
<td></td>
<td>Dibenzyl Ether</td>
<td>U U G U G G G G</td>
<td></td>
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<tr>
<td>Biocides (c-B20)</td>
<td>G C U E</td>
<td></td>
<td>Diesel Oil</td>
<td>E C U E E E E E</td>
<td></td>
</tr>
<tr>
<td>Black Sulfate Liquor</td>
<td>C C C E E C U</td>
<td></td>
<td>Diethylene</td>
<td>G G G U E U E –</td>
<td></td>
</tr>
<tr>
<td>Blast Furnace Gas</td>
<td>U U U E E E E</td>
<td></td>
<td>Diocyl Phthlate (DOP)</td>
<td>U U G G E E E</td>
<td></td>
</tr>
<tr>
<td>Borax, 10% aq</td>
<td>G G G E E E E G</td>
<td></td>
<td>DOT #3 / #4 Brake fluid</td>
<td>G U U E E C E E</td>
<td></td>
</tr>
<tr>
<td>Boric Acid, 10% aq</td>
<td>G G G E U G C C</td>
<td></td>
<td>Dowtherm A &amp; E</td>
<td>U U U E B G E E</td>
<td></td>
</tr>
<tr>
<td>Boric Alum</td>
<td>E G G E U G U</td>
<td></td>
<td>Ethyl Alcohol (Ethanol)</td>
<td>E E E E E E G G</td>
<td></td>
</tr>
<tr>
<td>Bromine, Dry</td>
<td>U U U E U C U C</td>
<td></td>
<td>Ethyl Acetate</td>
<td>U U G U G G G</td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>E C U E E E E</td>
<td></td>
<td>Ethyl Benzene</td>
<td>U U U E G G G</td>
<td></td>
</tr>
<tr>
<td>Butyl Acetate</td>
<td>U U G U E E E</td>
<td></td>
<td>Ethyl Cellosolve</td>
<td>G G G U G G G</td>
<td></td>
</tr>
<tr>
<td>Butyl Alcohol</td>
<td>E E G E G G G</td>
<td></td>
<td>Ethyl Chloride</td>
<td>U U U U G G G</td>
<td></td>
</tr>
<tr>
<td>Butyl Cellosolve</td>
<td>U U G U E E E</td>
<td></td>
<td>Ethylene Chlorohydroxide</td>
<td>U U U G G G C G</td>
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</tr>
<tr>
<td>Butylene (Butene)</td>
<td>C U U E E E E</td>
<td></td>
<td>Ethylene Glycol</td>
<td>E E E E G G E</td>
<td></td>
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<tr>
<td>Butyl Stearate</td>
<td>G U U E G G G</td>
<td></td>
<td>Ferric Chloride, 10% aq</td>
<td>E G G E U U U U</td>
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</tr>
<tr>
<td>Butyraldehyde</td>
<td>U U G U E E E</td>
<td></td>
<td>Ferric Nitrate, 10% aq</td>
<td>E E E E G U U U</td>
<td></td>
</tr>
<tr>
<td>Calcium Acetate, 10% aq</td>
<td>G G G U G G G</td>
<td></td>
<td>Ferric Sulfate, 10% aq</td>
<td>G G G U U U U E</td>
<td></td>
</tr>
<tr>
<td>Calcium Bisulfate, 16% aq</td>
<td>E E G U G C C</td>
<td></td>
<td>Formaldehyde</td>
<td>C C C G E E G G</td>
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<tr>
<td>Calcium Chloride, 10% aq</td>
<td>E E E G G G G</td>
<td></td>
<td>Formic Acid</td>
<td>C G G U U C C C</td>
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<tr>
<td>Calcium Hydroxide, 10% aq</td>
<td>E E E G G G U</td>
<td></td>
<td>Fuel Oil</td>
<td>E C U E E E E E</td>
<td></td>
</tr>
<tr>
<td>Calcium Hypochlorite, 18% aq</td>
<td>U U E G G C U</td>
<td></td>
<td>Furfural</td>
<td>C C G U G G G G</td>
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<tr>
<td>Calcium Nitrate, 10% aq</td>
<td>E E E G G G G</td>
<td></td>
<td>Gallic Acid, Solution</td>
<td>G G G E G – G C</td>
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<tr>
<td>Carbital</td>
<td>G G G G G G G G G</td>
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<td>Gasoline</td>
<td>E U U E E E E</td>
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</tr>
<tr>
<td>Carbon Disulfide, Dry Gas</td>
<td>G G G E E E E</td>
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<td>Gascohl</td>
<td>G G G U E E E E</td>
<td></td>
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<td>Carbon Disulfic Acid</td>
<td>U U U G E G G G</td>
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<td>Glycerine/Glycerol</td>
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<tr>
<td>Carbon Monoxide</td>
<td>G G G G E E E E</td>
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<td>Green Sulfate Liquor</td>
<td>G G G E U U U U</td>
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<tr>
<td>Carbon Tetrachloneide</td>
<td>U U U E U G G U</td>
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<td>Helium (1)</td>
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<tr>
<td>Castor Oil</td>
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<td>Heptane</td>
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<td>Cellulosic Acetate</td>
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<td>Hexahexol</td>
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<tr>
<td>China Wood Oil (Tung Oil)</td>
<td>G G G E E E E</td>
<td></td>
<td>Hexane</td>
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<tr>
<td>Chlorine Gas, Dry</td>
<td>U U U G G C C C</td>
<td></td>
<td>Hydraulic Oils, petroleum based</td>
<td>G C U E E E E E</td>
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<tr>
<td>Chloric Acidic</td>
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<td>Ester Blend</td>
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<tr>
<td>Chloroaceticone</td>
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<td></td>
<td>Phos. Est/Petroleum Blend</td>
<td>U U D E E E E</td>
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<tr>
<td>Chlorobenzene</td>
<td>U U G G G G G</td>
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<td>Silicone Oils</td>
<td>E E E E E E E</td>
<td></td>
</tr>
<tr>
<td>Chloroform</td>
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<td>Straight Petroleum Base</td>
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<td>D-Chlorophenol</td>
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<td>Straight Phosphate Estor</td>
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<td>Chlorosulfonic Acid</td>
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<td>Water Gylcol</td>
<td>E E E E E E E</td>
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<tr>
<td>Chrome Plating Solution</td>
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<td>Water Petroleum Emulsion</td>
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<td>Silicone</td>
<td>U U G G G G G</td>
<td></td>
<td>Hydrobromic Acid</td>
<td>U U U E E E E</td>
<td></td>
</tr>
</tbody>
</table>
## Fluid Compatibility

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

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Buna-N</th>
<th>Neoprene</th>
<th>FPM/EPDM</th>
<th>FKM</th>
<th>Steel</th>
<th>Brass</th>
<th>Stainless Steel</th>
<th>Aluminum</th>
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</thead>
<tbody>
<tr>
<td>Hydrochloric Acid, Cold</td>
<td>U</td>
<td>U</td>
<td>G</td>
<td>E</td>
<td>U</td>
<td>U</td>
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<td>Hydrocyanic Acid</td>
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<td>G</td>
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<td>E</td>
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<td>U</td>
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<td>Hydrogen</td>
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<td>Isocyanate</td>
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<tr>
<td>Sodium Hydroxide, 10% aq</td>
<td>U</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>C</td>
<td>G</td>
<td>C</td>
<td>U</td>
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<tr>
<td>Sodium Hydroxide, over 10%</td>
<td>U</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>C</td>
<td>C</td>
<td>C</td>
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<tr>
<td>Sodium Hypochlorite, 10% aq</td>
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<td>C</td>
<td>E</td>
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<tr>
<td>Sodium Metaphosphate, 10% aq</td>
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<td>E</td>
<td>E</td>
<td>G</td>
<td>G</td>
<td>G</td>
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</tr>
<tr>
<td>Sodium Nitrates, 10% aq</td>
<td>G</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>C</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Sodium Peroxide, 10% aq</td>
<td>G</td>
<td>G</td>
<td>E</td>
<td>E</td>
<td>C</td>
<td>U</td>
<td>C</td>
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</table>
## Fluid Compatibility

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

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<thead>
<tr>
<th>Fluid</th>
<th>Seals</th>
<th>Metal</th>
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<td>Sodium Peroxide, 10% aq</td>
<td>G</td>
<td>E</td>
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<tr>
<td>Sodium Phosphates, 10% aq</td>
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<td>E</td>
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<tr>
<td>Sodium Silicate, 10% aq</td>
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<td>E</td>
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<tr>
<td>Sodium Sulfate, 10% aq</td>
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<td>E</td>
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<tr>
<td>Sodium Sulfide, 10% aq</td>
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<td>Sodium Thiourea, 10% aq</td>
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<td>Soybean Oil (B100)</td>
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<td>Stearic Acid</td>
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<td>Stoddard Solvent</td>
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<td>Styrene</td>
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<td>Sulfur, Slurry</td>
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<td>E</td>
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<td>Sulfur Dioxide, Dry</td>
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<td>Sulfur Trioxide</td>
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<td>Sulfuric Acid, 10%</td>
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<td>G</td>
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<tr>
<td>Sulfuric Acid, over 10%</td>
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<td>U</td>
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<tr>
<td>Sulfurous Acid</td>
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<td>C</td>
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<td>Tannic Acid</td>
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<td>Tar (Bituminous)</td>
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<td>U</td>
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**Seal Information for Eaton Hansen and Gromelle Products**

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<tr>
<th>Dash Number</th>
<th>Compound</th>
<th>Buna-N – 90 Durometer</th>
<th>PTFE</th>
<th>Neoprene</th>
<th>FKM</th>
<th>Buna-N – 70 Durometer</th>
<th>EPDM</th>
<th>Ketol 900</th>
<th>EPDM</th>
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<td>–118</td>
<td>Neoprene</td>
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<td>–143</td>
<td>FKM</td>
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<td>–146</td>
<td>Buna-N – 70 Durometer</td>
<td>70 Durometer</td>
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<td>–192*</td>
<td>EPDM</td>
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<tr>
<td>–235†</td>
<td>Ketol 900</td>
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<td>EPDM</td>
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</table>

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

*–192 and –236 compounds are not compatible with mineral-based greases or oils.
†Kalrez seals available by special quotation.
Eaton’s HK Series coupling sets the industry standard for ISO B Couplings. The HK Series features a rugged ball latch mechanism with automatic self-sealing poppet valves in a wide array of port configurations and multiple valved and non-valved configurations.

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

### Physical Characteristics

<table>
<thead>
<tr>
<th>Series</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure Non hazardous liquids &amp; gases Group 2</th>
<th>Rated Flow*</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
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<tbody>
<tr>
<td>1HK</td>
<td>¾</td>
<td>6</td>
<td>4.4</td>
<td>(bar) (psi)</td>
<td>3</td>
<td>0.8</td>
<td>0.6</td>
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<tr>
<td>2HK</td>
<td>¾</td>
<td>10</td>
<td>5.9</td>
<td>(bar) (psi)</td>
<td>12</td>
<td>3</td>
<td>1.2</td>
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<tr>
<td>3HK</td>
<td>¾</td>
<td>10</td>
<td>7.1</td>
<td>(bar) (psi)</td>
<td>23</td>
<td>5</td>
<td>2.9</td>
</tr>
<tr>
<td>4HK</td>
<td>¾</td>
<td>20</td>
<td>12.5</td>
<td>(bar) (psi)</td>
<td>100</td>
<td>12</td>
<td>3.6</td>
</tr>
<tr>
<td>6HK</td>
<td>¾</td>
<td>25</td>
<td>19.6</td>
<td>(bar) (psi)</td>
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<tr>
<td>10HK</td>
<td>1¼**</td>
<td>—</td>
<td>26.7</td>
<td>(bar) (psi)</td>
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<td>76</td>
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<tr>
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<td>35.1</td>
<td>(bar) (psi)</td>
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<td>76</td>
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<td>(bar) (psi)</td>
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</table>

* For questions related to vacuum please contact Eaton.
** No ISO Standard available for the 10HK

### European Pressure Equipment Directive

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

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

### Flow Data

![Flow Data Graph](image)

### Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer**</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buna-N</td>
<td>-40°C to +121°C/-40°F to +250°F</td>
</tr>
<tr>
<td>Neoprene</td>
<td>-54°C to +100°C/-65°F to +212°F</td>
</tr>
<tr>
<td>EPDM</td>
<td>-54°C to +149°C/-65°F to +300°F</td>
</tr>
<tr>
<td>FKM</td>
<td>-28°C to +204°C/-15°F to +400°F</td>
</tr>
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</table>

* For reference only, based on Eaton recommended temperatures.
** For seals not listed contact Eaton.

Contact Eaton technical support for further information on fluid compatibility.
## Sockets (Female)

### HK Series (Steel)

#### ISO 7241-1 B Interchange

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK1-8 Series</td>
<td>Body Size</td>
<td>ISO Size</td>
<td>Thread Size (Female)</td>
<td>A (in)</td>
<td>B (in)</td>
</tr>
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<td>1H11</td>
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<td>-27</td>
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<td>1.91</td>
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<td>2.06</td>
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<td>3-1½</td>
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<td>4.37</td>
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</table>

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

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>HK10/12/20 Series</td>
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</tbody>
</table>

A=Overall Length, B=Maximum Diameter
* ISO 7241-1 Series B does not include 1-¼ inch body size couplings; therefore, Series 10HK is not covered by this standard
To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.
**HK Series (Steel)**  
ISO 7241-1 B Interchange

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
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<th>Thread Size (Female)</th>
<th>Fig.Dimensions</th>
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<tbody>
<tr>
<td>HK11</td>
<td>½</td>
<td>5</td>
<td>¼-27 - -</td>
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<tr>
<td>HK2</td>
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<td>¼-18 - -</td>
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<td>- - ¼-19</td>
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<td>- - ¾-18</td>
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<td>- - ¾-19</td>
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<td>1.5-14</td>
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<td>- - ½-17</td>
<td>3 2.54 1.59 0.89 1.38 64 9 40.4 22.6 35.1</td>
</tr>
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<td>¾</td>
<td>2½</td>
<td>1-12 - -</td>
<td>3 2.89 2.17 1.97 1.88 72.4 56.1 24.6 47.8</td>
</tr>
</tbody>
</table>

---

**Plugs (Male)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig. Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK10/12/20</td>
<td>1¼</td>
<td>1¼</td>
<td>1¼-11½ - -</td>
<td>4 4.25 2.34 2.33 2.38 108.0 69 6.59.2 60.5</td>
</tr>
<tr>
<td>HK10/12/20</td>
<td>1½</td>
<td>1½</td>
<td>1½-11½ - -</td>
<td>4 4.76 2.74 2.67 2.38 120.9 69 6.67.8 60.5</td>
</tr>
<tr>
<td>HK10/12/20</td>
<td>1½</td>
<td>1½</td>
<td>1½-11½ - -</td>
<td>4 4.76 2.74 2.67 2.38 120.9 69 6.67.8 60.5</td>
</tr>
<tr>
<td>HK10/12/20</td>
<td>1½</td>
<td>2½</td>
<td>2½-14 - -</td>
<td>4 5.49 4.33 4.31 3.75 139.4 110.0 75.4 95.3</td>
</tr>
<tr>
<td>HK10/12/20</td>
<td>2½</td>
<td>2½</td>
<td>2½-14 - -</td>
<td>4 5.49 4.33 4.31 3.75 139.4 110.0 75.4 95.3</td>
</tr>
<tr>
<td>HK10/12/20</td>
<td>2½</td>
<td>2½</td>
<td>2½-14 - -</td>
<td>4 6.08 4.33 3.96 3.75 154.4 110.0 90.4 95.3</td>
</tr>
<tr>
<td>HK10/12/20</td>
<td>2½</td>
<td>3-8</td>
<td>- -</td>
<td>4 6.94 4.62 4.42 4.00 176.3 117.3 112.3 101.6</td>
</tr>
</tbody>
</table>

---

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

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

---

**Dust Plugs and Dust Caps Accessories**

<table>
<thead>
<tr>
<th>Coupling Series</th>
<th>Plug Dust Cap Part No.</th>
<th>Socket Dust Plug Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1HK</td>
<td>PDC1HK</td>
<td>SDC1HK*</td>
</tr>
<tr>
<td>2HK</td>
<td>PDC2HK</td>
<td>SDC2HK*</td>
</tr>
<tr>
<td>3HK</td>
<td>PDC3HK</td>
<td>SDC3HK*</td>
</tr>
<tr>
<td>4HK</td>
<td>PDC4HK</td>
<td>SDC4HK*</td>
</tr>
<tr>
<td>6HK</td>
<td>PDC6HK</td>
<td>SDC6HK*</td>
</tr>
<tr>
<td>8HK</td>
<td>PDC8HK</td>
<td>SDC8HK*</td>
</tr>
<tr>
<td>12HK</td>
<td>PDC12HK</td>
<td>SDC12HK*</td>
</tr>
<tr>
<td>20HK</td>
<td>PDC20HK</td>
<td>SDC20HK*</td>
</tr>
</tbody>
</table>

**Brass** **Aluminum** **Offered in red by adding RD to end of part number**
HK Series (Brass)
ISO 7241-1 B Interchange

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

**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, FKM, EPDM, and Kalrez®

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Series</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter (mm)</th>
<th>Max. Operating Pressure Group 2</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>1HK</td>
<td>¼</td>
<td>4.4</td>
<td>207, 3,000</td>
<td>0.8, 0.6</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>2HK</td>
<td>½</td>
<td>5.9</td>
<td>186, 2,700</td>
<td>12, 3</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>3HK</td>
<td>¾</td>
<td>7.8</td>
<td>152, 2,200</td>
<td>23, 6</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td>4HK</td>
<td>1</td>
<td>12.5</td>
<td>155, 2,250</td>
<td>36, 12</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>6HK</td>
<td>1 ¼</td>
<td>17</td>
<td>138, 2,550</td>
<td>100, 25</td>
<td>11.5</td>
<td></td>
</tr>
<tr>
<td>8HK</td>
<td>1 ½</td>
<td>25</td>
<td>103, 1,500</td>
<td>189, 50</td>
<td>18.0</td>
<td></td>
</tr>
<tr>
<td>10HK</td>
<td>2</td>
<td>38.1</td>
<td>83, 1,200</td>
<td>573, 288</td>
<td>48.0</td>
<td></td>
</tr>
<tr>
<td>12HK</td>
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<td>50</td>
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<td>375, 99</td>
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</tr>
<tr>
<td>20HK</td>
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<td>70</td>
<td>69, 1,000</td>
<td>200, 209.9</td>
<td>209.9</td>
<td></td>
</tr>
</tbody>
</table>

* 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

**European Pressure Equipment Directive**
Coupings 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 stipulations of Module A of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

**Flow Data**

<table>
<thead>
<tr>
<th>Pressure (bar)</th>
<th>Flow rate (lpm)</th>
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<tbody>
<tr>
<td>3</td>
<td>14.7</td>
</tr>
<tr>
<td>6</td>
<td>29.4</td>
</tr>
<tr>
<td>9</td>
<td>44.1</td>
</tr>
<tr>
<td>12</td>
<td>58.8</td>
</tr>
</tbody>
</table>

* For reference only, based on Eaton recommended temperatures.
Contact Eaton technical support for further information on fluid compatibility.
### Sockets (Female)

#### HK1 Series (Brass)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK1-8 Series</td>
<td>B1H11</td>
<td>¼</td>
<td>½-27</td>
<td>1</td>
<td>1.91</td>
</tr>
<tr>
<td></td>
<td>B2H16</td>
<td>½</td>
<td>¾-18</td>
<td>1</td>
<td>2.26</td>
</tr>
<tr>
<td></td>
<td>B2H16BS</td>
<td>½</td>
<td>¾-19</td>
<td>1</td>
<td>2.31</td>
</tr>
<tr>
<td></td>
<td>B3H21</td>
<td>¾</td>
<td>¾-18</td>
<td>1</td>
<td>2.76</td>
</tr>
<tr>
<td></td>
<td>B3H21BS</td>
<td>¾</td>
<td>¾-19</td>
<td>1</td>
<td>2.56</td>
</tr>
<tr>
<td></td>
<td>B4HP26</td>
<td>1</td>
<td>12.5</td>
<td>¾-14</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B4HP26BS</td>
<td>1</td>
<td>12.5</td>
<td>¾-14</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B6HP31</td>
<td>1½</td>
<td>20</td>
<td>1¼-19</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B6HP31BS</td>
<td>1½</td>
<td>20</td>
<td>1¼-19</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B8HP36</td>
<td>1½</td>
<td>25</td>
<td>1-11½</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B8HP36BS</td>
<td>1½</td>
<td>25</td>
<td>1-11½</td>
<td>1</td>
</tr>
</tbody>
</table>

A=Overall Length, B=Maximum Diameter

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

#### HK10 Series (Brass)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK10/12/20 Series</td>
<td>B10H41</td>
<td>1¼</td>
<td>1-11½</td>
<td>2</td>
<td>4.51</td>
</tr>
<tr>
<td></td>
<td>B12H41</td>
<td>1½</td>
<td>2-11½</td>
<td>2</td>
<td>4.82</td>
</tr>
<tr>
<td></td>
<td>B12H41BS</td>
<td>1½</td>
<td>2-11½</td>
<td>2</td>
<td>4.82</td>
</tr>
<tr>
<td></td>
<td>B12H46</td>
<td>1½</td>
<td>40</td>
<td>1¾-11</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B12H46BS</td>
<td>1½</td>
<td>40</td>
<td>1¾-11</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B20H51</td>
<td>2½</td>
<td>50</td>
<td>2-11½</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B20H51BS</td>
<td>2½</td>
<td>50</td>
<td>2-11½</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B20H56</td>
<td>2½</td>
<td>50</td>
<td>2½-8</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B20H56BS</td>
<td>2½</td>
<td>50</td>
<td>2½-8</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B20H61</td>
<td>2½</td>
<td>50</td>
<td>3-8</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>B20H61BS</td>
<td>2½</td>
<td>50</td>
<td>3-8</td>
<td>2</td>
</tr>
</tbody>
</table>

A=Overall Length, B=Maximum Diameter

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

---

**Figure 1**

**Figure 2**
## Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in)</td>
<td>(mm)</td>
<td>NPTF</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>B1K11 1/4</td>
<td>5</td>
<td>12.7</td>
<td>-</td>
<td>3</td>
<td>1.26</td>
</tr>
<tr>
<td>B2K16 1/4</td>
<td>6.3</td>
<td>16.5</td>
<td>-</td>
<td>3</td>
<td>1.52</td>
</tr>
<tr>
<td>B2K16BS 1/4</td>
<td>6.3</td>
<td>16.5</td>
<td>-1/16</td>
<td>3</td>
<td>1.52</td>
</tr>
<tr>
<td>B2K21 1/2</td>
<td>10</td>
<td>25.4</td>
<td>-</td>
<td>3</td>
<td>1.76</td>
</tr>
<tr>
<td>B3K16 1/2</td>
<td>10</td>
<td>25.4</td>
<td>-1/16</td>
<td>3</td>
<td>1.76</td>
</tr>
<tr>
<td>B4KP26 1/2</td>
<td>12.5</td>
<td>31.7</td>
<td>-1/4</td>
<td>3</td>
<td>2.03</td>
</tr>
<tr>
<td>B4KP26BS 1/2</td>
<td>12.5</td>
<td>31.7</td>
<td>-1/4</td>
<td>3</td>
<td>2.03</td>
</tr>
<tr>
<td>B4KP31 1/2</td>
<td>20</td>
<td>51.0</td>
<td>-1/4</td>
<td>3</td>
<td>2.36</td>
</tr>
<tr>
<td>B4KP31BS 1/2</td>
<td>20</td>
<td>51.0</td>
<td>-1/4</td>
<td>3</td>
<td>2.36</td>
</tr>
<tr>
<td>B4KP36 1</td>
<td>25</td>
<td>63.5</td>
<td>1-11/16</td>
<td>3</td>
<td>2.85</td>
</tr>
<tr>
<td>B4KP36BS 1</td>
<td>25</td>
<td>63.5</td>
<td>1-11/16</td>
<td>3</td>
<td>2.85</td>
</tr>
</tbody>
</table>

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

## Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in)</td>
<td>(mm)</td>
<td>NPTF</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>B10K41* 1¼</td>
<td>-</td>
<td>1.27</td>
<td>1-11/16</td>
<td>4</td>
<td>4.25</td>
</tr>
<tr>
<td>B12K41 1½</td>
<td>10</td>
<td>25.4</td>
<td>1-11/16</td>
<td>4</td>
<td>4.75</td>
</tr>
<tr>
<td>B12K41BS 1½</td>
<td>10</td>
<td>25.4</td>
<td>-1/16</td>
<td>4</td>
<td>4.75</td>
</tr>
<tr>
<td>B12K46 1½</td>
<td>10</td>
<td>25.4</td>
<td>1-11/16</td>
<td>4</td>
<td>4.75</td>
</tr>
<tr>
<td>B20K51 2½</td>
<td>50</td>
<td>127.0</td>
<td>2-11/2</td>
<td>4</td>
<td>5.49</td>
</tr>
<tr>
<td>B20K51BS 2½</td>
<td>50</td>
<td>127.0</td>
<td>-2-11/2</td>
<td>4</td>
<td>5.49</td>
</tr>
<tr>
<td>B20K56 2½</td>
<td>50</td>
<td>127.0</td>
<td>2½-8</td>
<td>4</td>
<td>6.08</td>
</tr>
<tr>
<td>B20K56BS 2½</td>
<td>50</td>
<td>127.0</td>
<td>-2½-8</td>
<td>4</td>
<td>6.08</td>
</tr>
<tr>
<td>B20K61 2½</td>
<td>50</td>
<td>127.0</td>
<td>3-8</td>
<td>4</td>
<td>6.94</td>
</tr>
<tr>
<td>B20K61BS 2½</td>
<td>50</td>
<td>127.0</td>
<td>-3-11</td>
<td>4</td>
<td>6.94</td>
</tr>
</tbody>
</table>

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

## Dust Plugs and Dust Caps Accessories

<table>
<thead>
<tr>
<th>Coupling Series</th>
<th>Plug Dust Cap Part No.</th>
<th>Socket Dust Plug Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metal</td>
<td>Vinyl</td>
</tr>
<tr>
<td>1HK</td>
<td>PDC1HK</td>
<td>PPDC1HK</td>
</tr>
<tr>
<td>2HK</td>
<td>PDC2HK</td>
<td>PPDC2HK</td>
</tr>
<tr>
<td>3HK</td>
<td>PDC3HK</td>
<td>PPDC3HK</td>
</tr>
<tr>
<td>4HK</td>
<td>PDC4HK</td>
<td>PPDC4HK(RD)***</td>
</tr>
<tr>
<td>6HK</td>
<td>PDC6HK</td>
<td>PPDC6HK(RD)***</td>
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<td>8HK</td>
<td>PDC8HK</td>
<td>PPDC8HK(RD)***</td>
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<td>12HK</td>
<td>PDC12HK*</td>
<td>SDC12HK*</td>
</tr>
<tr>
<td>20HK</td>
<td>PDC20HK*</td>
<td>SDC20HK*</td>
</tr>
</tbody>
</table>

*Brass **Aluminum ***Offered in red by adding RD to end of part number
HK Series (Stainless Steel) ISO 7241-1 B Interchange

Eaton’s 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. The HK Series features a ball latch mechanism with automatic self-sealing poppet valves.

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, FKM, EPDM, and Kalrez®

Physical Characteristics

<table>
<thead>
<tr>
<th>Series</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure Non hazardous liquids &amp; gases Group 2</th>
<th>Non hazardous liquids &amp; gases Group 1</th>
<th>Rated Flow*</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>1HK</td>
<td>¼</td>
<td>5</td>
<td>4.4</td>
<td>344, 5,000</td>
<td>5,000</td>
<td>3</td>
<td>0.8</td>
<td>0.6</td>
</tr>
<tr>
<td>2HK</td>
<td>¼</td>
<td>6.3</td>
<td>5.9</td>
<td>255, 3,700</td>
<td>255, 3,700</td>
<td>12</td>
<td>3</td>
<td>1.2</td>
</tr>
<tr>
<td>3HK</td>
<td>¼</td>
<td>10</td>
<td>7.8</td>
<td>255, 3,700</td>
<td>255, 3,700</td>
<td>23</td>
<td>6</td>
<td>2.8</td>
</tr>
<tr>
<td>4HK</td>
<td>½</td>
<td>12.5</td>
<td>10</td>
<td>255, 3,700</td>
<td>255, 3,700</td>
<td>46</td>
<td>12</td>
<td>3.8</td>
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<tr>
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<td>¼</td>
<td>20</td>
<td>17</td>
<td>242, 3,500</td>
<td>242, 3,500</td>
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<td>26</td>
<td>11.8</td>
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<tr>
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<td>19.6</td>
<td>207, 2,000</td>
<td>207, 2,000</td>
<td>189</td>
<td>50</td>
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<tr>
<td>10HK</td>
<td>⅛</td>
<td>—</td>
<td>26.7</td>
<td>181, 1,700</td>
<td>181, 1,700</td>
<td>288</td>
<td>76</td>
<td>48.6</td>
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<tr>
<td>12HK</td>
<td>⅛</td>
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<td>35.1</td>
<td>152, 2,200</td>
<td>152, 2,200</td>
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<td>2⅛</td>
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<td>767</td>
<td>200</td>
<td>209.9</td>
</tr>
</tbody>
</table>

* 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

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 stipulations of Module A of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

Flow Data

Flow rate (l/min) vs. Pressure drop (bar)

Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Application Specification</th>
<th>Max. Operation Temperature Range</th>
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</thead>
<tbody>
<tr>
<td>Buna-N</td>
<td>none</td>
<td>-40°C to +121°C/40°F to +250°F</td>
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<tr>
<td>Neoprene</td>
<td>none</td>
<td>-54°C to +100°C/1°F to +212°F</td>
</tr>
<tr>
<td>EPDM</td>
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<td>-54°C to +149°C/65°F to +300°F</td>
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<td>FKM</td>
<td>MIL-R-25887</td>
<td>-29°C to +204°C/-15°F to +405°F</td>
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</table>

*For reference only, based on Eaton recommended temperatures. Contact Eaton technical support for further information on fluid compatibility.
HK Series Series (Stainless Steel)  
ISO 7241-1 B Interchange

Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK10/12/20 Series 303 Stainless Steel</td>
<td>316 Stainless Steel</td>
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<table>
<thead>
<tr>
<th>(in)</th>
<th>(mm)</th>
<th>NPTF</th>
<th>BSPP</th>
<th>SAE</th>
<th>A (in)</th>
<th>B (in)</th>
<th>Across Flats (in)</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>Across Flats (mm)</th>
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</thead>
<tbody>
<tr>
<td>LL1H11</td>
<td>ML1H11</td>
<td>¼</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1.91</td>
<td>0.98</td>
<td>0.56</td>
<td>48.5</td>
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<tr>
<td>LL1H4</td>
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<td>¼</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2.06</td>
<td>0.98</td>
<td>0.69</td>
<td>52.3</td>
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<tr>
<td>LL2H16</td>
<td>ML2H16</td>
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<td>6.3</td>
<td>¼-18</td>
<td>-</td>
<td>1</td>
<td>2.26</td>
<td>1.14</td>
<td>0.75</td>
<td>57.4</td>
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<tr>
<td>LL2H16BS</td>
<td>ML2H16BS</td>
<td>½</td>
<td>6.3</td>
<td>¼-19</td>
<td>-</td>
<td>1</td>
<td>2.31</td>
<td>1.14</td>
<td>0.75</td>
<td>57.4</td>
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<td>½</td>
<td>6.3</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2.40</td>
<td>1.14</td>
<td>0.88</td>
<td>61.0</td>
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<tr>
<td>LL3H21</td>
<td>ML3H21</td>
<td>¾</td>
<td>10</td>
<td>¾-18</td>
<td>-</td>
<td>1</td>
<td>2.56</td>
<td>1.42</td>
<td>0.88</td>
<td>65.0</td>
</tr>
<tr>
<td>LL3H21BS</td>
<td>ML3H21BS</td>
<td>¾</td>
<td>10</td>
<td>¾-19</td>
<td>-</td>
<td>1</td>
<td>2.56</td>
<td>1.42</td>
<td>0.88</td>
<td>65.0</td>
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<tr>
<td>LL3H8</td>
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<td>¾</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2.74</td>
<td>1.42</td>
<td>1.00</td>
<td>69.6</td>
</tr>
</tbody>
</table>

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

Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK10/12/20 Series 303 Stainless Steel</td>
<td>Stainless Steel</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>(in)</th>
<th>(mm)</th>
<th>NPTF</th>
<th>BSPP</th>
<th>A (in)</th>
<th>B (in)</th>
<th>Hex (in)</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>Hex (mm)</th>
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</thead>
<tbody>
<tr>
<td>LL10H41*</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1 ¼-11½</td>
<td>2</td>
<td>4.51</td>
<td>2.73</td>
<td>2.38</td>
<td>114.6</td>
</tr>
<tr>
<td>LL10H41BS*</td>
<td>1 ¼</td>
<td>-</td>
<td>-</td>
<td>1 ¼-11½</td>
<td>2</td>
<td>4.51</td>
<td>2.73</td>
<td>2.38</td>
<td>114.6</td>
</tr>
<tr>
<td>LL12H41</td>
<td>1 ½</td>
<td>40</td>
<td>1 ¼-11½</td>
<td>-</td>
<td>2</td>
<td>4.82</td>
<td>3.23</td>
<td>2.38</td>
<td>122.4</td>
</tr>
<tr>
<td>LL12H41BS</td>
<td>1 ½</td>
<td>40</td>
<td>-</td>
<td>1 ¼-11½</td>
<td>2</td>
<td>4.82</td>
<td>3.23</td>
<td>2.38</td>
<td>122.4</td>
</tr>
<tr>
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<td>1 ½</td>
<td>40</td>
<td>1 ½-11½</td>
<td>-</td>
<td>2</td>
<td>4.82</td>
<td>3.23</td>
<td>2.38</td>
<td>122.4</td>
</tr>
<tr>
<td>LL12H46BS</td>
<td>1 ½</td>
<td>40</td>
<td>-</td>
<td>1 ½-11½</td>
<td>2</td>
<td>4.82</td>
<td>3.23</td>
<td>2.38</td>
<td>122.4</td>
</tr>
<tr>
<td>LL20H51</td>
<td>2 ½</td>
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<td>2-11½</td>
<td>-</td>
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<td>5.55</td>
<td>4.11</td>
<td>3.75</td>
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<td>50</td>
<td>-</td>
<td>2-11½</td>
<td>2</td>
<td>5.55</td>
<td>4.11</td>
<td>3.75</td>
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<td>50</td>
<td>2½-8</td>
<td>-</td>
<td>2</td>
<td>6.14</td>
<td>4.11</td>
<td>3.75</td>
<td>156.0</td>
</tr>
<tr>
<td>LL20H56BS</td>
<td>2 ½</td>
<td>50</td>
<td>-</td>
<td>2½-8</td>
<td>2</td>
<td>6.14</td>
<td>4.11</td>
<td>3.75</td>
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</tr>
<tr>
<td>LL20H61</td>
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<td>3-8</td>
<td>-</td>
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<td>4.11</td>
<td>4.00</td>
<td>177.8</td>
</tr>
<tr>
<td>LL20H61BS</td>
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<td>50</td>
<td>-</td>
<td>3-8</td>
<td>2</td>
<td>7.00</td>
<td>4.11</td>
<td>4.00</td>
<td>177.8</td>
</tr>
</tbody>
</table>

A=Overall Length, B=Maximum Diameter  
* ISO 7241-1 Series B does not include 1-¼ inch body size couplings; therefore, Series 10HK is not covered by this standard.  
To obtain connected length of coupling, add dimensions A (Fig. 2) and E (Fig. 4) together.
HK Series (Stainless Steel)
ISO 7241-1 B Interchange

**Plugs (Male)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK11</td>
<td>¼</td>
<td>¼-27</td>
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<td>3</td>
<td>3.12, 0.65, 0.44, 0.56, 32.0, 16.5, 11.2, 14.2</td>
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<tr>
<td>HK14</td>
<td>¼</td>
<td>¼-20</td>
<td>-</td>
<td>3</td>
<td>3.14, 0.79, 0.59, 0.69, 35.8, 20.1, 19.0, 17.5</td>
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<tr>
<td>HK16S</td>
<td>½</td>
<td>½-19</td>
<td>-</td>
<td>3</td>
<td>3.15, 0.87, 0.56, 0.75, 38.6, 22.1, 14.2, 19.1</td>
</tr>
<tr>
<td>HK6X</td>
<td>¾</td>
<td>¾-18</td>
<td>-</td>
<td>3</td>
<td>3.16, 1.01, 0.70, 0.88, 42.2, 25.7, 17.8, 22.4</td>
</tr>
<tr>
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<td>1¼-11½</td>
<td>-</td>
<td>3</td>
<td>3.17, 1.01, 0.61, 0.88, 44.7, 25.7, 15.5, 22.4</td>
</tr>
<tr>
<td>HK21BS</td>
<td>1¼</td>
<td>1¼-11½</td>
<td>-</td>
<td>3</td>
<td>3.17, 1.01, 0.61, 0.88, 44.7, 25.7, 15.5, 22.4</td>
</tr>
</tbody>
</table>

**Plugs (Male)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Thread Size (Female)</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL1K11</td>
<td>ML1K11</td>
<td>¼</td>
<td>-</td>
<td>4</td>
<td>4.25, 2.76, 2.33, 2.38, 108.0, 69.6, 59.2, 60.5</td>
</tr>
<tr>
<td>LL1K4</td>
<td>ML1K4</td>
<td>¼</td>
<td>¼-11½</td>
<td>4</td>
<td>4.25, 2.74, 2.33, 2.38, 108.0, 69.6, 59.2, 60.5</td>
</tr>
<tr>
<td>LL2K16S</td>
<td>ML2K16S</td>
<td>½</td>
<td>½-11½</td>
<td>4</td>
<td>4.76, 2.74, 2.67, 2.38, 120.9, 69.6, 67.8, 60.5</td>
</tr>
<tr>
<td>LL2K6X</td>
<td>ML2K6X</td>
<td>¾</td>
<td>¾-11½</td>
<td>4</td>
<td>4.76, 2.74, 2.67, 2.38, 120.9, 69.6, 67.8, 60.5</td>
</tr>
<tr>
<td>LL3K21</td>
<td>ML3K21</td>
<td>1¼</td>
<td>1¼-11½</td>
<td>4</td>
<td>3.19, 1.15, 0.79, 1.00, 49.3, 29.2, 20.1, 25.4</td>
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<tr>
<td>LL3K21BS</td>
<td>ML3K21BS</td>
<td>1¼</td>
<td>1¼-11½</td>
<td>4</td>
<td>3.19, 1.15, 0.79, 1.00, 49.3, 29.2, 20.1, 25.4</td>
</tr>
</tbody>
</table>

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

**Dust Plugs and Dust Caps Accessories**

<table>
<thead>
<tr>
<th>Coupling Series</th>
<th>Plug Dust Cap Part No.</th>
<th>Socket Dust Plug Part No.</th>
<th>Metal</th>
<th>Vinyl</th>
<th>Metal</th>
<th>Vinyl</th>
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</thead>
<tbody>
<tr>
<td>1HK</td>
<td>PDC1HK*</td>
<td>PPD1HK*</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2HK</td>
<td>PDC2HK*</td>
<td>PPD2HK*</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3HK</td>
<td>PDC3HK*</td>
<td>PPD3HK*</td>
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</tr>
<tr>
<td>4HK</td>
<td>PDC4HK**</td>
<td>PPD4HK** (RD)***</td>
<td>SDC4HK*</td>
<td>PSDC4HK*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6HK</td>
<td>PDC6HK*</td>
<td>PPD6HK* (RD)***</td>
<td>SDC6HK*</td>
<td>PSDC6HK*</td>
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</tr>
<tr>
<td>8HK</td>
<td>PDC8HK**</td>
<td>PPD8HK** (RD)***</td>
<td>SDC8HK*</td>
<td>PSDC8HK*</td>
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</tr>
<tr>
<td>12HK</td>
<td>PDC12HK*</td>
<td>SDC12HK*</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>20HK</td>
<td>PDC20HK*</td>
<td>SDC20HK*</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

*Brass **Aluminum ***Offered in red by adding RD to end of part number
H15000 Series
ISO 7241-1 A Interchange

The H15000 Series is a general purpose industrial interchange coupling that meets the ISO 7241-1 Series A standard. The H15000 Series features a rugged ball latch mechanism with self-sealing poppet valves.

Product Features
- Meets the requirements of ISO 7241-1 Series A
- Designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC
- 1/2” size available in push-pull version (double acting sleeve, bulkhead-mounted)
- Double shut off valves with ball locking
- Standard body material: Zinc
- Standard seal material: NBR

Physical Characteristics

<table>
<thead>
<tr>
<th>ISO Size</th>
<th>Coupling Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow**</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in)</td>
<td>(mm)</td>
<td>(bar)</td>
<td>(lpm)</td>
<td>(gpm)</td>
</tr>
<tr>
<td>6.3</td>
<td>1/4</td>
<td>5.3</td>
<td>315</td>
<td>4,565</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>3/8</td>
<td>7.3</td>
<td>315</td>
<td>4,565</td>
<td>20</td>
</tr>
<tr>
<td>12.5</td>
<td>1/2</td>
<td>10.2</td>
<td>250</td>
<td>3,625</td>
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<td>3/4</td>
<td>13</td>
<td>250</td>
<td>3,625</td>
<td>75</td>
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<td>25</td>
<td>1</td>
<td>16.9</td>
<td>200</td>
<td>2,900</td>
<td>140</td>
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</tbody>
</table>

*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 Circuits and Equipment
- Hydraulic fluids
- Agriculture

Flow Data

![Flow Data Graph](image)

Hydraulic Oil viscosity: 30 Cst at 40°C / 104°F

HA15000 RANGE
# H15000 Series

## ISO 7241-1 A Interchange

### Part Number Nominal Flow ISO Size Coupling Thread Type Size Dimensions Imag. A B Hex Weight

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Flow</th>
<th>ISO</th>
<th>Size</th>
<th>Coupling Type</th>
<th>Thread Size</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>Hex</th>
<th>Weight</th>
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<tbody>
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<td>6.3</td>
<td>1/4</td>
<td>Socket/Female</td>
<td>G 1/4</td>
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<td>48</td>
<td>25</td>
<td>19</td>
<td>94</td>
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<td>HA152100</td>
<td>5.3</td>
<td>6.3</td>
<td>1/4</td>
<td>Socket/Female</td>
<td>1/4 NPT</td>
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<td>48</td>
<td>25</td>
<td>19</td>
<td>94</td>
<td></td>
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<td>HA150200</td>
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<td>10</td>
<td>3/8</td>
<td>Socket/Female</td>
<td>G 3/8</td>
<td>1</td>
<td>56</td>
<td>30</td>
<td>23</td>
<td>139</td>
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<td>3/8</td>
<td>Socket/Female</td>
<td>3/8 NPT</td>
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<td>30</td>
<td>23</td>
<td>139</td>
<td></td>
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<td>HA150300</td>
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<td>12.5</td>
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<td>Socket/Female</td>
<td>G 1/2</td>
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<td>38</td>
<td>27</td>
<td>238</td>
<td></td>
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<tr>
<td>HA1503600</td>
<td>10.2</td>
<td>12.5</td>
<td>1/2</td>
<td>Socket/Female</td>
<td>G 1/2 push-pull</td>
<td>1</td>
<td>67</td>
<td>38</td>
<td>27</td>
<td>238</td>
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<td>12.5</td>
<td>1/2</td>
<td>Socket/Female</td>
<td>1/2 NPT</td>
<td>1</td>
<td>67</td>
<td>38</td>
<td>27</td>
<td>238</td>
<td></td>
</tr>
<tr>
<td>HA150400</td>
<td>13</td>
<td>20</td>
<td>3/4</td>
<td>Socket/Female</td>
<td>G 3/4</td>
<td>1</td>
<td>83</td>
<td>48</td>
<td>35</td>
<td>484</td>
<td></td>
</tr>
<tr>
<td>HA152400</td>
<td>13</td>
<td>20</td>
<td>3/4</td>
<td>Socket/Female</td>
<td>3/4 NPT</td>
<td>1</td>
<td>83</td>
<td>48</td>
<td>35</td>
<td>484</td>
<td></td>
</tr>
<tr>
<td>HA150500</td>
<td>16.9</td>
<td>25</td>
<td>1</td>
<td>Socket/Female</td>
<td>G 1</td>
<td>1</td>
<td>98</td>
<td>53</td>
<td>41</td>
<td>670</td>
<td></td>
</tr>
<tr>
<td>HA152500</td>
<td>16.9</td>
<td>25</td>
<td>1</td>
<td>Socket/Female</td>
<td>1 NPT</td>
<td>1</td>
<td>98</td>
<td>53</td>
<td>41</td>
<td>670</td>
<td></td>
</tr>
</tbody>
</table>

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

### Dust Caps and Dust Plugs

<table>
<thead>
<tr>
<th>Series</th>
<th>Dust Plug</th>
<th>Dust Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3</td>
<td>HP151100</td>
<td>HP1511200</td>
</tr>
<tr>
<td>10</td>
<td>HP151200</td>
<td>HP1512200</td>
</tr>
<tr>
<td>12.5</td>
<td>HP151300</td>
<td>HP1513200</td>
</tr>
<tr>
<td>20</td>
<td>HP151400</td>
<td>HP1514200</td>
</tr>
<tr>
<td>25</td>
<td>HP151500</td>
<td>HP1515200</td>
</tr>
</tbody>
</table>
5600 Series (Stainless Steel)
ISO 7241-1 A Interchange

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

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

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

Flow Data

Hydraulic Oil viscosity: 30 Cst at 40°C / 104°F

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Max. Operating Pressure Connected (bar)</th>
<th>Min. Burst Pressure (bar)</th>
<th>Rated Flow (lpm)</th>
<th>Air Inclusion (cc. max.)</th>
<th>Fluid Loss (cc. max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8</td>
<td>207</td>
<td>621</td>
<td>9,000</td>
<td>12</td>
<td>2.8</td>
</tr>
<tr>
<td>3/4</td>
<td>207</td>
<td>621</td>
<td>9,000</td>
<td>28</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>207</td>
<td>621</td>
<td>9,000</td>
<td>50</td>
<td>14.2</td>
</tr>
</tbody>
</table>

Flow Chart
*Additional sizes are available upon request.
5600 Series (Stainless Steel)
ISO 7241-1 A Interchange

<table>
<thead>
<tr>
<th>Female End Connections</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>A (in)</th>
<th>B (in)</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>560024-8-10</td>
<td>Socket/Female</td>
<td>5/8</td>
<td>1/2-14 NPTF</td>
<td>1</td>
<td>2.61</td>
<td>1.5</td>
<td>1.19</td>
<td>66.3</td>
<td>38.1</td>
</tr>
<tr>
<td>560024-12-12</td>
<td>Socket/Female</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>1</td>
<td>3.25</td>
<td>1.81</td>
<td>1.40</td>
<td>82.6</td>
<td>46.0</td>
</tr>
<tr>
<td>560024-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1-11/2 NPTF</td>
<td>1</td>
<td>3.82</td>
<td>2.1</td>
<td>1.69</td>
<td>97.0</td>
<td>53.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plugs (Male)</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>A (in)</th>
<th>B (in)</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>560049-8-10</td>
<td>Plug/Male</td>
<td>5/8</td>
<td>1/2-14 NPTF</td>
<td>2</td>
<td>2.02</td>
<td>–</td>
<td>1.06</td>
<td>51.3</td>
<td>–</td>
</tr>
<tr>
<td>560049-12-12</td>
<td>Plug/Male</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>2</td>
<td>2.55</td>
<td>–</td>
<td>1.38</td>
<td>64.8</td>
<td>–</td>
</tr>
<tr>
<td>560049-16-16</td>
<td>Plug/Male</td>
<td>1</td>
<td>1-11/2 NPTF</td>
<td>2</td>
<td>3.1</td>
<td>–</td>
<td>1.62</td>
<td>78.7</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complete Sets*</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A (in)</td>
</tr>
<tr>
<td>FD56-1001-08-10</td>
<td>Complete</td>
<td>5/8</td>
<td>1/2-14 NPTF</td>
<td>3</td>
<td>3.78</td>
</tr>
<tr>
<td>FD56-1001-12-12</td>
<td>Complete</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>3</td>
<td>4.56</td>
</tr>
<tr>
<td>FD56-1001-16-16</td>
<td>Complete</td>
<td>1</td>
<td>1-11/2 NPTF</td>
<td>3</td>
<td>4.86</td>
</tr>
</tbody>
</table>

*Includes one socket/female and one plug/male half in the outlined size.
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 bulkhead-mounted. This configuration provides automatic connection or disconnection via a simple push or pull of the plug. Our IA Series is available in $\frac{1}{2}''$, 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 ($\frac{1}{2}''$)
- Standard body material: Zinc trivalent plated steel
- Wide offering of end connections, among which metric threads designed in accordance with ISO Standard 8434/1
- Standard seal material: NBR
- Optional PVC dust caps and plugs
- 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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>ISO Size*</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow**</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>bar (psi)</td>
<td>(gpm)</td>
<td>ml-cc.</td>
</tr>
<tr>
<td>$\frac{1}{2}$</td>
<td>12.5</td>
<td>6</td>
<td>250</td>
<td>3,625</td>
<td>45</td>
</tr>
</tbody>
</table>

* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard).
** Indicated values refer to a 1 bar/14.5 psi pressure drop.

Applications & Markets
- Agriculture
- Forestry machinery

Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>-20°C to +100°C/ -4°F to +212°F</td>
</tr>
</tbody>
</table>

*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

### Fluid Transfer and Hydraulics
- Special Applications
- Diagnostic
- Industrial Refrigerant

### Sockets (Female) with Internal Thread

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>NPT</th>
<th>BSPP</th>
<th>ISO 6149-1</th>
<th>SAE J 1926-1</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12IAS37BS</td>
<td>½</td>
<td>12.5</td>
<td>-</td>
<td>-</td>
<td>¼-19</td>
<td>-</td>
<td>1 2.95</td>
<td>150 120</td>
</tr>
<tr>
<td>12IAS37</td>
<td>½</td>
<td>12.5</td>
<td>-</td>
<td>-</td>
<td>¼-18</td>
<td>-</td>
<td>1 2.95</td>
<td>150 120</td>
</tr>
<tr>
<td>12IAS50BS</td>
<td>½</td>
<td>12.5</td>
<td>-</td>
<td>-</td>
<td>½-14</td>
<td>-</td>
<td>1 3.07</td>
<td>150 120</td>
</tr>
<tr>
<td>12IAS50</td>
<td>½</td>
<td>12.5</td>
<td>-</td>
<td>-</td>
<td>½-14</td>
<td>-</td>
<td>1 3.07</td>
<td>150 120</td>
</tr>
<tr>
<td>12IAS16MET</td>
<td>-</td>
<td>10.3</td>
<td>-</td>
<td>-</td>
<td>M16x1.5</td>
<td>-</td>
<td>1 2.95</td>
<td>150 120</td>
</tr>
<tr>
<td>12IAS55UN</td>
<td>-</td>
<td>-</td>
<td>¼ 18F UNF</td>
<td>1</td>
<td>1 2.95</td>
<td>150 120</td>
<td>106 78</td>
<td>38 29.5</td>
</tr>
<tr>
<td>12IAS75UN</td>
<td>-</td>
<td>-</td>
<td>¾ 16F UNF</td>
<td>1</td>
<td>1 3.07</td>
<td>150 120</td>
<td>106 78</td>
<td>38 29.5</td>
</tr>
<tr>
<td>12IAS87UN</td>
<td>-</td>
<td>-</td>
<td>14F UNF</td>
<td>1</td>
<td>1 3.19</td>
<td>150 130</td>
<td>118 81</td>
<td>38 33</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Male)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12IAS56ORM</td>
<td>½</td>
<td>12.5</td>
<td>-</td>
<td>¾ 18F UNF</td>
<td>2</td>
<td>12.87</td>
</tr>
<tr>
<td>12IAS75ORM</td>
<td>10.3</td>
<td>-</td>
<td>¾ 16F UNF</td>
<td>2 1.50</td>
<td>0.55 1.08</td>
<td>62 38</td>
</tr>
<tr>
<td>12IAS8M</td>
<td>6</td>
<td>12L - M14x1.5</td>
<td>-</td>
<td>2.44 1.50</td>
<td>0.99 1.08</td>
<td>62 38</td>
</tr>
<tr>
<td>12IAS10L</td>
<td>8</td>
<td>10L - M16x1.5 Bulkhead</td>
<td>-</td>
<td>2.40 1.50</td>
<td>0.43 0.71</td>
<td>106 61</td>
</tr>
<tr>
<td>12IAS10LBH</td>
<td>8</td>
<td>10L - M16x1.5 Bulkhead</td>
<td>-</td>
<td>2.40 1.50</td>
<td>0.43 0.71</td>
<td>106 61</td>
</tr>
<tr>
<td>12IAS12L</td>
<td>10</td>
<td>12L - M18x1.5 Bulkhead</td>
<td>-</td>
<td>2.40 1.50</td>
<td>0.43 0.71</td>
<td>106 61</td>
</tr>
<tr>
<td>12IAS12LBH</td>
<td>10</td>
<td>12L - M18x1.5 Bulkhead</td>
<td>-</td>
<td>2.40 1.50</td>
<td>0.43 0.71</td>
<td>106 61</td>
</tr>
<tr>
<td>12IAS12S</td>
<td>8</td>
<td>12S - M20x1.5 Bulkhead</td>
<td>-</td>
<td>2.40 1.50</td>
<td>0.47 0.79</td>
<td>106 61</td>
</tr>
<tr>
<td>12IAS15L</td>
<td>10.3</td>
<td>15L - M22x1.5 Bulkhead</td>
<td>-</td>
<td>2.36 1.50</td>
<td>0.47 0.87</td>
<td>106 60</td>
</tr>
<tr>
<td>12IAS15LBH</td>
<td>10.3</td>
<td>15L - M22x1.5 Bulkhead</td>
<td>-</td>
<td>2.40 1.50</td>
<td>0.87 1.06</td>
<td>38 12</td>
</tr>
<tr>
<td>12IAS16S</td>
<td>10.3</td>
<td>16S - M24x1.5 Bulkhead</td>
<td>-</td>
<td>2.36 1.50</td>
<td>0.94 1.06</td>
<td>38 14</td>
</tr>
</tbody>
</table>

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

**ISO 7241-1 A Interchange**

#### Plugs (Male) with Internal Thread

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12IAP75UN</td>
<td>¾</td>
<td>-</td>
<td>-</td>
<td>% 14f UNF</td>
<td>3</td>
<td>2.36</td>
</tr>
<tr>
<td>12IAP56UN</td>
<td>-</td>
<td>-</td>
<td>% 18f UNF</td>
<td>-</td>
<td>3</td>
<td>2.36</td>
</tr>
</tbody>
</table>

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

#### Plugs (Male) with External Thread

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Male)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12IAP75L</td>
<td>8</td>
<td>10.3</td>
<td>M18x1.5</td>
<td>-</td>
<td>1.71</td>
<td>0.43</td>
</tr>
<tr>
<td>12IAP12L</td>
<td>10</td>
<td>12.5</td>
<td>M22x1.5</td>
<td>bulkhead</td>
<td>1.71</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>½</td>
<td>HP1513100</td>
<td>HP1513200</td>
</tr>
</tbody>
</table>
Eaton’s H5000 Series steel quick disconnect coupling is a pull to connect double shut-off coupling. Featuring the original Eaton’s 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 trivalent steel
- Standard seal material: NBR, FKM, EPDM
- The heat treatment of the plug and use of high strength steel for the socket sleeve provide superior mechanical and hydraulic performance. The design of the valve gives the coupling increased robustness when disconnected.

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure*</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>3/8 – 1000</td>
<td>14,500</td>
<td>6.1</td>
</tr>
<tr>
<td>½</td>
<td>5/16 – 700</td>
<td>10,150</td>
<td>11.6</td>
</tr>
<tr>
<td>¾</td>
<td>7/32 – 600</td>
<td>8,700</td>
<td>16.7</td>
</tr>
<tr>
<td>1</td>
<td>1/4 – 500</td>
<td>5,800</td>
<td>25.5</td>
</tr>
<tr>
<td>1¼</td>
<td>1/2 – 400</td>
<td>4,350</td>
<td>35.5</td>
</tr>
<tr>
<td>1½</td>
<td>3/8 – 300</td>
<td>2,900</td>
<td>55.5</td>
</tr>
<tr>
<td>2</td>
<td>1/2 – 200</td>
<td>2,175</td>
<td>87</td>
</tr>
</tbody>
</table>

* For pulsating pressures when disconnected apply a multiplier of 0.5

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

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

Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR</td>
<td>-30°C +100°C -4°F +232°F</td>
</tr>
<tr>
<td>FKM</td>
<td>-20°C +200°C -4°F +352°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)**</td>
<td>-40°C +150°C -4°F +302°F</td>
</tr>
</tbody>
</table>

* 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)

#### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR*</td>
<td>FKM</td>
<td>EPDM</td>
<td>(in)</td>
<td>(mm)</td>
<td>lbs</td>
</tr>
<tr>
<td>HA0500300</td>
<td>HA05003VD</td>
<td>HA05003E0</td>
<td>¾</td>
<td>¾-28</td>
<td>2</td>
</tr>
<tr>
<td>HA0502300</td>
<td>HA05023VD</td>
<td>HA05023E0</td>
<td>¾</td>
<td>¾-27</td>
<td>2</td>
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<tr>
<td>HA0503300</td>
<td>HA05033VD</td>
<td>HA05033E0</td>
<td>¾</td>
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<td>2</td>
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<tr>
<td>HA0505300</td>
<td>HA05053VD</td>
<td>HA05053E0</td>
<td>¾</td>
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<td>2</td>
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<tr>
<td>HA0506300</td>
<td>HA05063VD</td>
<td>HA05063E0</td>
<td>¾</td>
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<td>2</td>
</tr>
<tr>
<td>HA0507300</td>
<td>HA05073VD</td>
<td>HA05073E0</td>
<td>¾</td>
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<td>2</td>
</tr>
<tr>
<td>HA0508300</td>
<td>HA05083VD</td>
<td>HA05083E0</td>
<td>¾</td>
<td>¾-14</td>
<td>2</td>
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<tr>
<td>HA0509300</td>
<td>HA05093VD</td>
<td>HA05093E0</td>
<td>¾</td>
<td>¾-14</td>
<td>2</td>
</tr>
</tbody>
</table>

* Body sizes 1¼, 1½ and 2 are supplied with FKM seals as standard.

** Alternative end connections available upon request.

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

#### Sockets with Sleeve Lock (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR*</td>
<td>FKM</td>
<td>EPDM</td>
<td>(in)</td>
<td>(mm)</td>
<td>lbs</td>
</tr>
<tr>
<td>HA0500300</td>
<td>HA05003VD</td>
<td>HA05003E0</td>
<td>¾</td>
<td>¾-28</td>
<td>2</td>
</tr>
<tr>
<td>HA0502300</td>
<td>HA05023VD</td>
<td>HA05023E0</td>
<td>¾</td>
<td>¾-27</td>
<td>2</td>
</tr>
<tr>
<td>HA0503300</td>
<td>HA05033VD</td>
<td>HA05033E0</td>
<td>¾</td>
<td>¾-14</td>
<td>2</td>
</tr>
<tr>
<td>HA0505300</td>
<td>HA05053VD</td>
<td>HA05053E0</td>
<td>¾</td>
<td>¾-10</td>
<td>2</td>
</tr>
<tr>
<td>HA0506300</td>
<td>HA05063VD</td>
<td>HA05063E0</td>
<td>¾</td>
<td>¾-14</td>
<td>2</td>
</tr>
<tr>
<td>HA0507300</td>
<td>HA05073VD</td>
<td>HA05073E0</td>
<td>¾</td>
<td>¾-11</td>
<td>2</td>
</tr>
<tr>
<td>HA0508300</td>
<td>HA05083VD</td>
<td>HA05083E0</td>
<td>¾</td>
<td>¾-14</td>
<td>2</td>
</tr>
<tr>
<td>HA0509300</td>
<td>HA05093VD</td>
<td>HA05093E0</td>
<td>¾</td>
<td>¾-14</td>
<td>2</td>
</tr>
</tbody>
</table>

* Body sizes 1¼, 1½ 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)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>NBR*</th>
<th>Body Size *</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3.8</td>
<td>-</td>
<td>¼-28</td>
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</tr>
<tr>
<td>HA050200</td>
<td>HA0502200</td>
<td>¼</td>
<td>3.8</td>
<td>-</td>
<td>¼-27</td>
<td>3</td>
</tr>
<tr>
<td>HA050300</td>
<td>HA0503200</td>
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<td>3.8</td>
<td>-</td>
<td>M10x100</td>
<td>3</td>
</tr>
<tr>
<td>HA0501200</td>
<td>HA0501200</td>
<td>¼</td>
<td>5.7</td>
<td>-</td>
<td>⅛-19</td>
<td>3</td>
</tr>
<tr>
<td>HA0521200</td>
<td>HA0521200</td>
<td>¼</td>
<td>5.7</td>
<td>-</td>
<td>⅛-18</td>
<td>-</td>
</tr>
<tr>
<td>HA0531200</td>
<td>HA0531200</td>
<td>⅛</td>
<td>5.7</td>
<td>-</td>
<td>M14x150</td>
<td>3</td>
</tr>
<tr>
<td>HA0502200</td>
<td>HA0502200</td>
<td>½</td>
<td>7.6</td>
<td>-</td>
<td>⅛-19</td>
<td>3</td>
</tr>
<tr>
<td>HA0522200</td>
<td>HA0522200</td>
<td>½</td>
<td>7.6</td>
<td>-</td>
<td>⅛-18</td>
<td>-</td>
</tr>
<tr>
<td>HA0532200</td>
<td>HA0532200</td>
<td>½</td>
<td>7.6</td>
<td>-</td>
<td>M18x150</td>
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</tr>
<tr>
<td>HA0503200</td>
<td>HA0503200</td>
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<td>-</td>
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<td>-</td>
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<tr>
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<td>HA0523200</td>
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<td>⅛-14</td>
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<td>HA0504200</td>
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</tr>
<tr>
<td>HA0524200</td>
<td>HA0524200</td>
<td>⅜</td>
<td>14.2</td>
<td>-</td>
<td>⅛-14</td>
<td>-</td>
</tr>
<tr>
<td>HA0534200</td>
<td>HA0534200</td>
<td>⅜</td>
<td>14.2</td>
<td>-</td>
<td>M20x150</td>
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<tr>
<td>HA0505200</td>
<td>HA0505200</td>
<td>⅝</td>
<td>16.5</td>
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<tr>
<td>HA0525200</td>
<td>HA0525200</td>
<td>⅝</td>
<td>16.5</td>
<td>-</td>
<td>⅛-11½</td>
<td>-</td>
</tr>
<tr>
<td>HA0506200</td>
<td>HA0506200</td>
<td>⅝</td>
<td>20.5</td>
<td>-</td>
<td>⅛-11½</td>
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</tr>
<tr>
<td>HA0507200</td>
<td>HA0507200</td>
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<td>25.8</td>
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<tr>
<td>HA0509200</td>
<td>HA0509200</td>
<td>⅝</td>
<td>34.7</td>
<td>-</td>
<td>⅝-21</td>
<td>-</td>
</tr>
</tbody>
</table>

* Body sizes 1¼, 1½ 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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
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<tbody>
<tr>
<td>Anodized Aluminium</td>
<td>Anodized Aluminium</td>
<td>Anodized Aluminium</td>
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<tr>
<td>¼</td>
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<td>HD00510200</td>
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<tr>
<td>¼</td>
<td>HD00511100</td>
<td>HD00511200</td>
</tr>
<tr>
<td>¼</td>
<td>HD00512100</td>
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<td>⅛</td>
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<td>⅛</td>
<td>HD00514100</td>
<td>HD00514200</td>
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<tr>
<td>⅝</td>
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<td>1¼</td>
<td>HD00517100</td>
<td>HD00517200</td>
</tr>
<tr>
<td>1½</td>
<td>HD00519100</td>
<td>HD00519200</td>
</tr>
</tbody>
</table>
Eaton's 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's 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).

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter* (in)</th>
<th>Max. Operating Pressure** (bar)</th>
<th>Hazardous and Non hazardous liquids in Group 1&amp;2</th>
<th>Hazardous Gases in Group 1</th>
<th>Rated Flow*** (lpm)</th>
<th>Fluid Loss (ml-cc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>0.3</td>
<td>300</td>
<td>4,350</td>
<td>300</td>
<td>4,350</td>
<td>6.1</td>
</tr>
<tr>
<td>⅝</td>
<td>0.7</td>
<td>175</td>
<td>2,635</td>
<td>175</td>
<td>2,535</td>
<td>16.7</td>
</tr>
<tr>
<td>½</td>
<td>1.0</td>
<td>150</td>
<td>2,175</td>
<td>150</td>
<td>2,175</td>
<td>25.5</td>
</tr>
<tr>
<td>¾</td>
<td>1.2</td>
<td>125</td>
<td>1,810</td>
<td>125</td>
<td>1,810</td>
<td>55.1</td>
</tr>
<tr>
<td>1</td>
<td>1.6</td>
<td>100</td>
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<td>1,450</td>
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<td>1,015</td>
<td>140.1</td>
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<tr>
<td>1½</td>
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<td>50</td>
<td>725</td>
<td>50</td>
<td>725</td>
<td>208.5</td>
</tr>
<tr>
<td>2</td>
<td>3.4</td>
<td>40</td>
<td>580</td>
<td>40</td>
<td>580</td>
<td>357.0</td>
</tr>
</tbody>
</table>

* 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

### Flow Data

#### Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>–20°C +100°C/–4°F +212°F</td>
</tr>
<tr>
<td>FKM (Flurocarbon)</td>
<td>–20°C +200°C/–4°F +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene) **</td>
<td>–40°C +150°C/–40°F +302°F</td>
</tr>
</tbody>
</table>

* 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)

## Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR</td>
<td>FKM</td>
<td>EPDM</td>
<td>(in)</td>
<td>(mm)</td>
<td>BSPP</td>
</tr>
<tr>
<td>HL0500100</td>
<td>HL05001V0</td>
<td>HL05001E0</td>
<td>⅛</td>
<td>3.8</td>
<td>⅛-28</td>
</tr>
<tr>
<td>HL05001100</td>
<td>HL050011V0</td>
<td>HL050011E0</td>
<td>¼</td>
<td>5.7</td>
<td>¼-19</td>
</tr>
<tr>
<td>HL05002100</td>
<td>HL050021V0</td>
<td>HL050021E0</td>
<td>⅜</td>
<td>7.6</td>
<td>⅜-18</td>
</tr>
<tr>
<td>HL05003100</td>
<td>HL050031V0</td>
<td>HL050031E0</td>
<td>½</td>
<td>10.3</td>
<td>½-14</td>
</tr>
<tr>
<td>HL05004100</td>
<td>HL050041V0</td>
<td>HL050041E0</td>
<td>¾</td>
<td>14.2</td>
<td>¾-14</td>
</tr>
<tr>
<td>HL05005100</td>
<td>HL050051V0</td>
<td>HL050051E0</td>
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<td>16.5</td>
<td>1-11</td>
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<tr>
<td>HL05006100</td>
<td>HL050061V0</td>
<td>HL050061E0</td>
<td>1½</td>
<td>20.5</td>
<td>1½-11</td>
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<td>HL05007100</td>
<td>HL050071V0</td>
<td>HL050071E0</td>
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<td>25.8</td>
<td>2-11</td>
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<tr>
<td>HL05009100</td>
<td>HL050091V0</td>
<td>HL050091E0</td>
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<td>34.7</td>
<td>2½-11</td>
</tr>
</tbody>
</table>

* Alternative end connections available upon request.

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

## Sockets with Sleeve Lock (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR</td>
<td>FKM</td>
<td>EPDM</td>
<td>(in)</td>
<td>(mm)</td>
<td>BSPP</td>
</tr>
<tr>
<td>HL0500300</td>
<td>HL05003V0</td>
<td>HL05003E0</td>
<td>⅛</td>
<td>3.8</td>
<td>⅛-28</td>
</tr>
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<td>HL050013V0</td>
<td>HL050013E0</td>
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<td>5.7</td>
<td>¼-19</td>
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<td>HL050023V0</td>
<td>HL050023E0</td>
<td>⅜</td>
<td>7.6</td>
<td>⅜-18</td>
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<tr>
<td>HL05003300</td>
<td>HL050033V0</td>
<td>HL050033E0</td>
<td>½</td>
<td>10.3</td>
<td>½-14</td>
</tr>
<tr>
<td>HL05004300</td>
<td>HL050043V0</td>
<td>HL050043E0</td>
<td>¾</td>
<td>14.2</td>
<td>¾-14</td>
</tr>
<tr>
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<td>HL050053V0</td>
<td>HL050053E0</td>
<td>1</td>
<td>16.5</td>
<td>1-11</td>
</tr>
<tr>
<td>HL05006300</td>
<td>HL050063V0</td>
<td>HL050063E0</td>
<td>1½</td>
<td>20.5</td>
<td>1½-11</td>
</tr>
<tr>
<td>HL05007300</td>
<td>HL050073V0</td>
<td>HL050073E0</td>
<td>2</td>
<td>25.8</td>
<td>2-11</td>
</tr>
<tr>
<td>HL05009300</td>
<td>HL050093V0</td>
<td>HL050093E0</td>
<td>2½</td>
<td>34.7</td>
<td>2½-11</td>
</tr>
</tbody>
</table>

* 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)

#### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Size **</th>
<th>Thread Size (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BSPP</td>
<td>Fig. G</td>
<td>H</td>
<td>I</td>
</tr>
<tr>
<td>HL0500200</td>
<td>¼</td>
<td>1/4-28</td>
<td>3</td>
<td>1.1</td>
<td>0.43</td>
</tr>
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<td>⅜-19</td>
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<td>½</td>
<td>½-14</td>
<td>3</td>
<td>1.65</td>
<td>0.75</td>
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<td>¾</td>
<td>¾-14</td>
<td>3</td>
<td>1.97</td>
<td>0.81</td>
</tr>
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<td>1</td>
<td>1-11</td>
<td>3</td>
<td>2.27</td>
<td>1.27</td>
</tr>
</tbody>
</table>

* Body sizes 1¼, 1½ 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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>Anodized Aluminium</td>
<td>Anodized Aluminium</td>
</tr>
<tr>
<td>¼</td>
<td>HD05010100</td>
<td>HD0610200</td>
</tr>
<tr>
<td>⅜</td>
<td>HD05011100</td>
<td>HD0611200</td>
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<tr>
<td>½</td>
<td>HD05012100</td>
<td>HD0612200</td>
</tr>
<tr>
<td>¾</td>
<td>HD05013100</td>
<td>HD0613200</td>
</tr>
<tr>
<td>1</td>
<td>HD05014100</td>
<td>HD0614200</td>
</tr>
<tr>
<td>1¼</td>
<td>HD05016100</td>
<td>HD0616200</td>
</tr>
<tr>
<td>1½</td>
<td>HD05017100</td>
<td>HD0617200</td>
</tr>
<tr>
<td>2</td>
<td>HD05019100</td>
<td>HD0619200</td>
</tr>
</tbody>
</table>

* Body sizes 1¼, 1½ 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.
Eaton’s 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’s 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

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

**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**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure*</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>3.8</td>
<td>300</td>
<td>6.1</td>
</tr>
<tr>
<td>½</td>
<td>5.7</td>
<td>230</td>
<td>11.6</td>
</tr>
<tr>
<td>¾</td>
<td>10.3</td>
<td>150</td>
<td>21.7</td>
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<tr>
<td>1</td>
<td>14.2</td>
<td>125</td>
<td>6.5</td>
</tr>
<tr>
<td>1¼</td>
<td>16.5</td>
<td>100</td>
<td>14.5</td>
</tr>
<tr>
<td>1½</td>
<td>20.5</td>
<td>75</td>
<td>28.9</td>
</tr>
<tr>
<td>2</td>
<td>25.8</td>
<td>50</td>
<td>755</td>
</tr>
</tbody>
</table>

* For pulsating pressures when disconnected apply a multiplier of 0.5

**Flow Data**

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

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM</td>
<td>-20°C to +200°C/-4°F to +392°F</td>
</tr>
<tr>
<td>EPDM</td>
<td>-40°C to +150°C/-40°F to +302°F</td>
</tr>
</tbody>
</table>

* For reference only, based on Eaton recommended temperatures.

**Contact Eaton technical support for further information on fluid compatibility.**
### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HZ05001V0</td>
<td>HZ05001E0</td>
<td>⅛</td>
<td>⅛-28</td>
<td>1</td>
<td>1.65</td>
</tr>
<tr>
<td>HZ0501V0</td>
<td>HZ0501E0</td>
<td>¼</td>
<td>¼-27</td>
<td>1</td>
<td>1.65</td>
</tr>
<tr>
<td>HZ0502V0</td>
<td>HZ0502E0</td>
<td>½</td>
<td>½-19</td>
<td>1</td>
<td>1.97</td>
</tr>
<tr>
<td>HZ0521V0</td>
<td>HZ0521E0</td>
<td>¾</td>
<td>¾-18</td>
<td>1</td>
<td>1.97</td>
</tr>
<tr>
<td>HZ0502V1</td>
<td>HZ0502E1</td>
<td>⅝</td>
<td>⅝-18</td>
<td>1</td>
<td>1.97</td>
</tr>
<tr>
<td>HZ0522V1</td>
<td>HZ0522E1</td>
<td>⅞</td>
<td>⅞-18</td>
<td>1</td>
<td>1.97</td>
</tr>
<tr>
<td>HZ0503V1</td>
<td>HZ0503E1</td>
<td>⅞</td>
<td>⅞-18</td>
<td>1</td>
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<tr>
<td>HZ0523V1</td>
<td>HZ0523E1</td>
<td>1</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0504V1</td>
<td>HZ0504E1</td>
<td>1½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0524V1</td>
<td>HZ0524E1</td>
<td>2½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0505V1</td>
<td>HZ0505E1</td>
<td>3½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0525V1</td>
<td>HZ0525E1</td>
<td>4½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0506V1</td>
<td>HZ0506E1</td>
<td>5½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0526V1</td>
<td>HZ0526E1</td>
<td>6½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0507V1</td>
<td>HZ0507E1</td>
<td>7½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>HZ0527V1</td>
<td>HZ0527E1</td>
<td>8½</td>
<td>⅛-27</td>
<td>1</td>
<td>2.32</td>
</tr>
</tbody>
</table>

* Alternative end connections available upon request.

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

### Sockets with Sleeve Lock (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HZ05003V0</td>
<td>HZ05003E0</td>
<td>⅛</td>
<td>⅛-28</td>
<td>2</td>
<td>1.65</td>
</tr>
<tr>
<td>HZ05013V0</td>
<td>HZ05013E0</td>
<td>¼</td>
<td>¼-27</td>
<td>2</td>
<td>1.87</td>
</tr>
<tr>
<td>HZ05023V0</td>
<td>HZ05023E0</td>
<td>½</td>
<td>½-19</td>
<td>2</td>
<td>1.87</td>
</tr>
<tr>
<td>HZ05213V0</td>
<td>HZ05213E0</td>
<td>¾</td>
<td>¾-18</td>
<td>2</td>
<td>1.87</td>
</tr>
<tr>
<td>HZ05023V1</td>
<td>HZ05023E1</td>
<td>⅝</td>
<td>⅝-18</td>
<td>2</td>
<td>1.87</td>
</tr>
<tr>
<td>HZ05223V1</td>
<td>HZ05223E1</td>
<td>⅞</td>
<td>⅞-18</td>
<td>2</td>
<td>1.87</td>
</tr>
<tr>
<td>HZ05033V1</td>
<td>HZ05033E1</td>
<td>⅞</td>
<td>⅞-18</td>
<td>2</td>
<td>1.87</td>
</tr>
<tr>
<td>HZ05233V1</td>
<td>HZ05233E1</td>
<td>1</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05043V1</td>
<td>HZ05043E1</td>
<td>1½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05243V1</td>
<td>HZ05243E1</td>
<td>2½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
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<td>HZ05053E1</td>
<td>3½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05253V1</td>
<td>HZ05253E1</td>
<td>4½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05063V1</td>
<td>HZ05063E1</td>
<td>5½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05263V1</td>
<td>HZ05263E1</td>
<td>6½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05073V1</td>
<td>HZ05073E1</td>
<td>7½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
<tr>
<td>HZ05273V1</td>
<td>HZ05273E1</td>
<td>8½</td>
<td>⅛-27</td>
<td>2</td>
<td>2.71</td>
</tr>
</tbody>
</table>

* 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)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(in)</td>
<td></td>
<td>(in)</td>
<td>G (lbs)</td>
</tr>
<tr>
<td>FKM EPDM</td>
<td>(in)</td>
<td>(mm)</td>
<td>NPT</td>
<td>H (in)</td>
<td>I (in)</td>
</tr>
<tr>
<td>HZ05022V0</td>
<td>3.8</td>
<td>1.97</td>
<td>1.22</td>
<td>1.94</td>
<td>1.06</td>
</tr>
<tr>
<td>HZ05024V0</td>
<td>6.0</td>
<td>2.79</td>
<td>1.27</td>
<td>1.87</td>
<td>1.61</td>
</tr>
<tr>
<td>HZ05026V0</td>
<td>8.5</td>
<td>3.72</td>
<td>1.27</td>
<td>1.87</td>
<td>1.61</td>
</tr>
<tr>
<td>HZ05028V0</td>
<td>12.0</td>
<td>5.02</td>
<td>2.01</td>
<td>2.54</td>
<td>2.10</td>
</tr>
<tr>
<td>HZ05030V0</td>
<td>17.0</td>
<td>6.75</td>
<td>2.01</td>
<td>2.54</td>
<td>2.10</td>
</tr>
<tr>
<td>HZ05032V0</td>
<td>28.0</td>
<td>8.09</td>
<td>2.01</td>
<td>2.54</td>
<td>2.10</td>
</tr>
<tr>
<td>HZ05034V0</td>
<td>34.0</td>
<td>9.61</td>
<td>2.01</td>
<td>2.54</td>
<td>2.10</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>½</td>
<td>HZD051100</td>
<td>HZD0510200</td>
</tr>
<tr>
<td>¾</td>
<td>HZD0511100</td>
<td>HZD0511200</td>
</tr>
<tr>
<td>1</td>
<td>HZD051200</td>
<td>HZD0512200</td>
</tr>
<tr>
<td>1½</td>
<td>HZD0512500</td>
<td>HZD0513000</td>
</tr>
<tr>
<td>2</td>
<td>HZD0513200</td>
<td>HZD05134000</td>
</tr>
<tr>
<td>1⅜</td>
<td>HZD051400</td>
<td>HZD0514200</td>
</tr>
<tr>
<td>1⅝</td>
<td>HZD051500</td>
<td>HZD0515200</td>
</tr>
<tr>
<td>2⅛</td>
<td>HZD051600</td>
<td>HZD0516200</td>
</tr>
<tr>
<td>2⅜</td>
<td>HZD051700</td>
<td>HZD0517200</td>
</tr>
<tr>
<td>2⅝</td>
<td>HZD051900</td>
<td>HZD0519200</td>
</tr>
</tbody>
</table>

---

[Diagram of H5000 Series]
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 Series is ideal for use when global interchangeability with other manufacturers is important and is available in sizes from 1/4” through 1” 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, HNBR (upon request)

**Physical Characteristics**

<table>
<thead>
<tr>
<th>ISO Size</th>
<th>Coupling Size</th>
<th>Maximum Operating Pressure</th>
<th>Minimum Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Connected Male Half</td>
<td>Plug/Socket Female Half</td>
</tr>
<tr>
<td>(mm)</td>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
</tr>
<tr>
<td>6.3</td>
<td>1/4</td>
<td>350</td>
<td>5,075</td>
</tr>
<tr>
<td>10.0</td>
<td>3/8</td>
<td>350</td>
<td>5,075</td>
</tr>
<tr>
<td>12.5</td>
<td>1/2</td>
<td>350</td>
<td>5,075</td>
</tr>
<tr>
<td>16.0</td>
<td>5/8</td>
<td>350</td>
<td>5,075</td>
</tr>
<tr>
<td>19.0</td>
<td>3/4</td>
<td>350</td>
<td>5,075</td>
</tr>
<tr>
<td>25.0</td>
<td>1</td>
<td>350</td>
<td>5,075</td>
</tr>
</tbody>
</table>

* 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 in the 3/8” size

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer Data</th>
<th>ISO Size (6FF, 10FF, 12FF, 16FF, 19FF and 25FF)</th>
<th>Maximum Operation Temperature Range</th>
<th>Non-ISO Size (32FF, 50FF and 50FF)</th>
<th>Maximum Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile) + AU (Polyurethane)</td>
<td>-25°C to +100°C</td>
<td>-20°C to +100°C</td>
<td>212°F</td>
<td>212°F</td>
</tr>
<tr>
<td>FKM</td>
<td>-14°C to +200°C</td>
<td>-15°C to +180°C</td>
<td>392°F</td>
<td>392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)</td>
<td>-40°C to +150°C</td>
<td>-20°C to +150°C</td>
<td>302°F</td>
<td>302°F</td>
</tr>
<tr>
<td>+HNBR</td>
<td>-32°C to +150°C</td>
<td>-32°C to +150°C</td>
<td>392°F</td>
<td>392°F</td>
</tr>
<tr>
<td>Kalrez® 6375</td>
<td>-20°C to +275°C</td>
<td>-20°C to +275°C</td>
<td>527°F</td>
<td>527°F</td>
</tr>
<tr>
<td>Generic FFKM (Perfluorocarbon)</td>
<td>-10°C to +210°C</td>
<td>-10°C to +210°C</td>
<td>527°F</td>
<td>527°F</td>
</tr>
</tbody>
</table>

* For reference only, based on Eaton recommended temperatures.
Contact Eaton technical support for further information on fluid compatibility.
**FF Series (Steel)**

ISO 16028 Interchange

**Sockets (Female)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFTS25</td>
<td>½</td>
<td>6.3</td>
<td>¾-19</td>
<td>G ¼</td>
<td>2.13 0.94 0.97 54 27 24 22 - -</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS25BS</td>
<td>¼</td>
<td>6.3</td>
<td>¾-19</td>
<td>G ¼</td>
<td>2.13 0.94 0.97 54 27 24 22 0.30 135</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS25FG</td>
<td>¼</td>
<td>6.3</td>
<td>¾-19</td>
<td>M10x1.5</td>
<td>2.17 0.94 0.97 55 27 24 22 - -</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS37</td>
<td>¼</td>
<td>8.6</td>
<td>¾-19</td>
<td>M10x1.5</td>
<td>2.67 1.26 1.16 70 32 29 25 27 - -</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS37BS</td>
<td>¼</td>
<td>8.6</td>
<td>¾-19</td>
<td>M10x1.5</td>
<td>2.67 1.26 1.16 70 32 29 25 27 0.54 244</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS37FG</td>
<td>¼</td>
<td>8.6</td>
<td>¾-19</td>
<td>M10x1.5</td>
<td>2.79 1.26 1.16 70.8 32 29 25 27 0.52 237</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS50</td>
<td>½</td>
<td>10</td>
<td>¾-19</td>
<td>M12x1.5</td>
<td>2.79 1.26 1.16 70.8 32 29 25 27 0.52 237</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS50BS</td>
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<td>10</td>
<td>¾-19</td>
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<td>2.79 1.26 1.16 70.8 32 29 25 27 0.52 237</td>
<td>- -</td>
</tr>
<tr>
<td>FFTS50FG</td>
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<td>10</td>
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<tr>
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<td>M16x1.5</td>
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<td>15</td>
<td>¾-19</td>
<td>M16x1.5</td>
<td>3.80 1.82 1.94 140 77 64 55 1.60 690</td>
<td>- -</td>
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</tbody>
</table>
*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.
### Sockets (Female)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>A (in)</td>
<td>B (in)</td>
<td>C (in)</td>
<td>H (in)</td>
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<tr>
<td>6FFS10LBH</td>
<td>%</td>
<td>8</td>
<td>6</td>
<td>10L - M16x1.5</td>
<td>2</td>
<td>1.85</td>
<td>1.06</td>
<td>0.64</td>
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<tr>
<td>10FFS10L</td>
<td>%</td>
<td>10</td>
<td>8</td>
<td>8L - M16x1.5</td>
<td>2</td>
<td>2.18</td>
<td>1.56</td>
<td>0.39</td>
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<td>10FFS12L</td>
<td>%</td>
<td>10</td>
<td>10</td>
<td>12L - M18x1.5</td>
<td>2</td>
<td>2.18</td>
<td>1.56</td>
<td>0.43</td>
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<tr>
<td>10FFS15LBH</td>
<td>%</td>
<td>10</td>
<td>8,6</td>
<td>15L - M22x1.5</td>
<td>2</td>
<td>2.06</td>
<td>1.36</td>
<td>0.57</td>
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<tr>
<td>10FFS15LBH</td>
<td>%</td>
<td>10</td>
<td>8,6</td>
<td>15L - M22x1.5</td>
<td>2</td>
<td>2.42</td>
<td>1.26</td>
<td>0.56</td>
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<tr>
<td>10FFS16S</td>
<td>%</td>
<td>10</td>
<td>8,6</td>
<td>16S - M24x1.5</td>
<td>2</td>
<td>2.16</td>
<td>1.16</td>
<td>0.50</td>
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<td>10FFS16S</td>
<td>%</td>
<td>10</td>
<td>8,6</td>
<td>16S - M24x1.5</td>
<td>2</td>
<td>2.16</td>
<td>1.16</td>
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<tr>
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<td>%</td>
<td>10</td>
<td>8,6</td>
<td>16S - M24x1.5</td>
<td>2</td>
<td>2.16</td>
<td>1.16</td>
<td>0.50</td>
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</table>

* Alternative end connections available upon request.

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

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

### ISO 16028 Interchange

![Diagram of FF Series (Steel) ISO 16028 Interchange](image)

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow</th>
<th>Thread Size*(Threads)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR4575</td>
<td>¾</td>
<td>6.3</td>
<td>1 ½</td>
<td>11,5f</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
</tr>
<tr>
<td>NBR4575S</td>
<td>¾</td>
<td>6.3</td>
<td>1 ½</td>
<td>11,5f</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
</tr>
<tr>
<td>NBR4575FG</td>
<td>¾</td>
<td>6.3</td>
<td>1 ½</td>
<td>1 ¼-11</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
</tr>
<tr>
<td>NBR4575FGS</td>
<td>¾</td>
<td>6.3</td>
<td>1 ½</td>
<td>1 ¼-11</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
</tr>
<tr>
<td>NBR5075</td>
<td>½</td>
<td>6.3</td>
<td>1 ½</td>
<td>1 ½-11</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
</tr>
<tr>
<td>NBR5075S</td>
<td>½</td>
<td>6.3</td>
<td>1 ½</td>
<td>1 ½-11</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
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<tr>
<td>NBR5075FG</td>
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<td>6.3</td>
<td>1 ½</td>
<td>1 ¼-11</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
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<td>½</td>
<td>6.3</td>
<td>1 ½</td>
<td>1 ¼-11</td>
<td>3.69 1.18 1.8 2.84 1.65</td>
<td>393.8</td>
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</table>

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.
**FF Series (Steel)
ISO 16028 Interchange**

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size (in)</th>
<th>ISO Size (mm)</th>
<th>Nominal Flow Size</th>
<th>Thread Size <strong>(Male)</strong></th>
<th>Dimensions</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>6FFP10LBH</td>
<td>¼</td>
<td>6.3</td>
<td>6</td>
<td>M10x1.5</td>
<td>4</td>
<td>1.54</td>
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<tr>
<td>10FFP8L</td>
<td>10</td>
<td>6</td>
<td>8L</td>
<td>M10x1.5</td>
<td>4</td>
<td>2.44</td>
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<tr>
<td>10FFP10L</td>
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<td>8</td>
<td>10L</td>
<td>M10x1.5</td>
<td>4</td>
<td>2.44</td>
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<td>10</td>
<td>12L</td>
<td>M10x1.5</td>
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<td>2.01</td>
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<td>12</td>
<td>14L</td>
<td>M10x1.5</td>
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<td>2.01</td>
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</table>

**Notes:**
- 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

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Dust Plug Material</th>
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<tbody>
<tr>
<td>¼</td>
<td>SDC6FF</td>
<td>Socket/Female</td>
<td>PVC</td>
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<tr>
<td>½*</td>
<td>SDC10FF</td>
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<tr>
<td>¾</td>
<td>SDC12FF</td>
<td>Socket/Female</td>
<td>PVC</td>
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<td>1</td>
<td>SDC16FF</td>
<td>Socket/Female</td>
<td>PVC</td>
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<tr>
<td>1½</td>
<td>SDC20FF</td>
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<td>PVC</td>
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<td>1¾</td>
<td>SDC24FF</td>
<td>Socket/Female</td>
<td>PVC</td>
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*Dust caps and dust plugs are offered in black.

### Plug (Male) Dust Cap

<table>
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<tr>
<th>Body Size (in)</th>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Dust Plug Material</th>
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<tbody>
<tr>
<td>¼</td>
<td>PDC6FP</td>
<td>Plug/Male</td>
<td>PVC</td>
</tr>
<tr>
<td>½*</td>
<td>PDC10FP</td>
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<td>PVC</td>
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<tr>
<td>¾</td>
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</tr>
<tr>
<td>1</td>
<td>PDC16FP</td>
<td>Plug/Male</td>
<td>PVC</td>
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*Orders must be in multiples of 10 pcs.

---

**Color Coding Ring Option**

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<tr>
<th>Body Size (in)</th>
<th>ISO Size (mm)</th>
<th>Size</th>
<th>Socket/Female Ring</th>
<th>Part Number <strong>(Male)</strong></th>
<th>Color</th>
<th>Green</th>
<th>Plug/Male Ring</th>
<th>Part Number <strong>(Male)</strong></th>
<th>Color</th>
<th>Green</th>
<th>Tool Part Number</th>
<th>Tool &amp; Rings Kit Part Number <strong>(Male)</strong></th>
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<tbody>
<tr>
<td>¼</td>
<td>6.3</td>
<td>6</td>
<td>M10x1.5</td>
<td>CR10FFSLB</td>
<td>Red</td>
<td>Red</td>
<td>CR10FPPRD</td>
<td>CR10FFPDG</td>
<td>Blue</td>
<td>Blue</td>
<td>CR10FFPDG</td>
<td>CR10FFSP93 CRK10FF</td>
</tr>
<tr>
<td>½</td>
<td>12.5</td>
<td>12F</td>
<td>CR12FFSLB</td>
<td>CR12FPPRD</td>
<td>Blue</td>
<td>Blue</td>
<td>CR12FFPPRD</td>
<td>CR12FFPDG</td>
<td>Blue</td>
<td>Blue</td>
<td>CR12FFPDG</td>
<td>CR12FFSP93 CRK12FF</td>
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<tr>
<td>¾</td>
<td>16</td>
<td>16F</td>
<td>CR16FFSLB</td>
<td>CR16FPPRD</td>
<td>Blue</td>
<td>Blue</td>
<td>CR16FFPPRD</td>
<td>CR16FFPDG</td>
<td>Blue</td>
<td>Blue</td>
<td>CR16FFPDG</td>
<td>CR16FFSP93 CRK16FF</td>
</tr>
<tr>
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<td>19</td>
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<td>Blue</td>
<td>CR19FFPPRD</td>
<td>CR19FFPDG</td>
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<td>CR19FFPDG</td>
<td>CR19FFSP93 CRK19FF</td>
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*For requests on alternative colors or installation instructions, please contact your Eaton sales representative.*

**Notes:**
- * Must be ordered in multiples of 10 pieces.
- ** Kit consists of a tool plus 10 socket rings and 10 plug rings of each color.
**MLFF Series (Stainless Steel)**
**ISO 16028 Flat Face/Dry Break**

Eaton’s 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, HNBR (upon request)

### Physical Characteristics

<table>
<thead>
<tr>
<th>ISO Size*</th>
<th>Coupling Size</th>
<th>Maximum Operating Pressure</th>
<th>Minimum Burst Pressure</th>
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<tbody>
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<td></td>
<td>Connected</td>
<td>Plug/ Male Half</td>
<td>Socket/ Female Half</td>
</tr>
<tr>
<td>(mm)</td>
<td>(in)</td>
<td>(bar) (psi)</td>
<td>(bar) (psi)</td>
</tr>
<tr>
<td>6.3</td>
<td>¼</td>
<td>250 3,625</td>
<td>3,625</td>
</tr>
<tr>
<td>10</td>
<td>¾</td>
<td>250 3,625</td>
<td>250 3,625</td>
</tr>
<tr>
<td>12</td>
<td>½</td>
<td>250 3,625</td>
<td>250 3,625</td>
</tr>
<tr>
<td>16</td>
<td>¾</td>
<td>250 3,625</td>
<td>1,190 17,755</td>
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<tr>
<td>19</td>
<td>¾</td>
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<td>3,625 1,370</td>
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<tr>
<td>25</td>
<td>1</td>
<td>250 3,625</td>
<td>250 3,625</td>
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</table>

**Flow Rate (gpm)**
- 2.64 26.4 264
- 1.45 14.5
- 0.1 1

**Pressure Drop (bar)**
- 10 100 1000

**Flow Rate (l/min)**
- 3/8 3/4 1/2

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

### Seal Elastomer Data*

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<tbody>
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<td>NBR (Nitrile) + AUI (Polyurethane)</td>
<td>-</td>
<td>-25°C to +100°C/-13°F to +212°F</td>
<td>on request</td>
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<tr>
<td>FKM</td>
<td>-143</td>
<td>-20°C to +200°C/-4°F to +392°F</td>
<td>-15°C to +180°C/5°F to +358°F</td>
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<td></td>
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<tr>
<td>EPDM (Ethylene-Propylene)</td>
<td>-182</td>
<td>-40°C to +150°C/-40°F to +322°F</td>
<td>on request</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### Applications & Markets
- Construction
- Agriculture
- Iron and Steel Industry
- Railway
- Oil and Gas
- Marine
- Material Handling
- General Hydraulic applications
## MLFF Series (Stainless Steel)
### ISO 16028 Flat Face/Dry Break

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size/Female (in)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLFFP25S</td>
<td>¾</td>
<td>6.3</td>
<td>¾-18</td>
<td>2.03</td>
<td>0.46</td>
<td>0.18</td>
</tr>
<tr>
<td>MLFFP25S</td>
<td>¾</td>
<td>6.3</td>
<td>¾-18</td>
<td>2.03</td>
<td>0.46</td>
<td>0.18</td>
</tr>
<tr>
<td>MLFFP32S</td>
<td>1</td>
<td>7.9</td>
<td>1-14</td>
<td>2.12</td>
<td>0.39</td>
<td>0.27</td>
</tr>
<tr>
<td>MLFFP32S</td>
<td>1</td>
<td>7.9</td>
<td>1-14</td>
<td>2.12</td>
<td>0.39</td>
<td>0.27</td>
</tr>
</tbody>
</table>

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size/Female (in)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLFFP25S</td>
<td>¾</td>
<td>6.3</td>
<td>¾-18</td>
<td>2.03</td>
<td>0.46</td>
<td>0.18</td>
</tr>
<tr>
<td>MLFFP25S</td>
<td>¾</td>
<td>6.3</td>
<td>¾-18</td>
<td>2.03</td>
<td>0.46</td>
<td>0.18</td>
</tr>
<tr>
<td>MLFFP32S</td>
<td>1</td>
<td>7.9</td>
<td>1-14</td>
<td>2.12</td>
<td>0.39</td>
<td>0.27</td>
</tr>
<tr>
<td>MLFFP32S</td>
<td>1</td>
<td>7.9</td>
<td>1-14</td>
<td>2.12</td>
<td>0.39</td>
<td>0.27</td>
</tr>
</tbody>
</table>

### Color Coding Ring Option†*

<table>
<thead>
<tr>
<th>Body Size</th>
<th>ISO Size</th>
<th>Size</th>
<th>Socket/Female Ring Part Number**</th>
<th>Blue</th>
<th>Red</th>
<th>Yellow</th>
<th>Green</th>
<th>Plug/Male Ring Part Number**</th>
<th>Blue</th>
<th>Red</th>
<th>Yellow</th>
<th>Green</th>
<th>Tool Part Number</th>
<th>Tool &amp; Rings Kit Part Number***</th>
</tr>
</thead>
</table>

† For requests on alternate colors or installation instructions, please contact your Eaton sales representative.

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

† For dust caps and dust plugs please refer to page 37.
Eaton’s FFCUP Series plug/male coupling is an ISO 16028 standard interchange. The flush face design prevents fluid loss on disconnection and air inclusion on connection guaranteeing excellent flow capability. An integrated patented system allows the FFCUP Series plug to be connected to a socket/female half coupling under 350 bar (5075 psi) residual pressure.

**Product Features**
- Designed and manufactured in accordance with Article 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**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>10</td>
<td>8.6</td>
<td>350</td>
<td>5,075</td>
<td>1,400</td>
<td>20,300</td>
<td>29.4</td>
<td>0.010</td>
<td>0.006</td>
</tr>
</tbody>
</table>

* 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)

**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

**Flow Data**

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile) + AU (Polyurethane)</td>
<td>-25°C to +100°C/ -13°F to +212°F</td>
</tr>
</tbody>
</table>

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

Test Fluid: Oil viscosity 30 cSt at 40°C/104°F
FFCUP Series
ISO 16028 Connect Under Pressure Flat Face Plug/Male

Figure 1

Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>ISO Size (mm)</th>
<th>Nominal Flow Diameter (mm)</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR+AU</td>
<td>(in)</td>
<td>(mm)</td>
<td></td>
<td></td>
<td></td>
<td>lbs</td>
</tr>
<tr>
<td>FFCUP37</td>
<td>1Le-14</td>
<td>8.6</td>
<td></td>
<td>NPT</td>
<td>1.41 2.28 2.15 73.5 39.5 58.0 36 0.69 314</td>
<td></td>
</tr>
<tr>
<td>FFCUP37BS</td>
<td>1Le-14</td>
<td>8.6</td>
<td></td>
<td>BSPP</td>
<td>1.41 2.28 2.15 73.5 39.5 58.0 36 0.69 314</td>
<td></td>
</tr>
<tr>
<td>FFCUP50</td>
<td>1½-14</td>
<td>10</td>
<td></td>
<td>NPT</td>
<td>1.41 2.28 2.15 73.5 39.5 58.0 36 0.66 300</td>
<td></td>
</tr>
<tr>
<td>FFCUP50BS</td>
<td>1½-14</td>
<td>10</td>
<td></td>
<td>BSPP</td>
<td>1.41 2.28 2.15 73.5 39.5 58.0 36 0.66 300</td>
<td></td>
</tr>
</tbody>
</table>

* Alternative end connections available upon request.

Color Coding Ring Option*

<table>
<thead>
<tr>
<th>Body Size</th>
<th>ISO Size</th>
<th>Nominal Flow Diameter (mm)</th>
<th>Plug/Male Ring Part Number***</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>Blue</td>
</tr>
<tr>
<td>1Le-14</td>
<td>8.6</td>
<td>8.6</td>
<td>CR12FFPLB</td>
</tr>
<tr>
<td>1½-14</td>
<td>10</td>
<td>8.6</td>
<td>CR12FFPRD</td>
</tr>
<tr>
<td>1½-14</td>
<td>10</td>
<td>8.6</td>
<td>CR12FFPYL</td>
</tr>
<tr>
<td>1½-14</td>
<td>10</td>
<td>8.6</td>
<td>CR12FFPDG</td>
</tr>
</tbody>
</table>

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

** Orders must be in multiples of 10 pcs.
FD49 Series
NFPA Standard T3.20.15 HTMA Interchange

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

Product Features
- Dual flush face valving for minimal fluid loss and air inclusion
- Tubular valve and sleeve construction for high fluid flow with low pressure drop
- Push-to-connect latching
- Standard seal material: Teflon channel seal and Buna-N O-Ring backup
- Standard body material: high resistance carbon steel with zinc trivalent plating

Physical Characteristics
<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure</th>
<th>Min. Burst Pressure Connected</th>
<th>Vacuum Connected Only</th>
<th>Rated Flow</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>207 bar (3,000 psi)</td>
<td>621 bar (9,000 psi)</td>
<td>28 in./Hg</td>
<td>38 lpm (38 gpm)</td>
<td>.01 cc. max.</td>
<td>.02 cc. max.</td>
</tr>
</tbody>
</table>

Applications & Markets
- Hydraulic tool (HTMA interchange)
- Hydraulic and fluid transfer

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

Flow Data
Pressure Drop Versus Flow Graph

Gallons Per Minute Flow
Test Fluid: MIL-H-5606 Oil at 100°F
## FD49 Series
### NFPA Standard T3.20.15 HTMA Interchange

![Figure 1](image1.png)

![Figure 2](image2.png)

![Figure 3](image3.png)

### Dimensions (Female NPT, Valved)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A (mm) (in)</th>
<th>Dimensions B (mm) (in)</th>
<th>Hex (in)</th>
<th>Hex (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD49-1002-06-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Female NPT 1</td>
<td>1</td>
<td>66.5 (2.62)</td>
<td>-</td>
<td>25.4 (1.00)</td>
<td>-</td>
</tr>
<tr>
<td>FD49-1001-06-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Female NPT 2</td>
<td>2</td>
<td>69.6 (2.74)</td>
<td>30.5 (1.20)</td>
<td>25.4 (1.00)</td>
<td>26.9 (1.06)</td>
</tr>
<tr>
<td>FD49-1002-08-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>1/2-14</td>
<td>Female NPT 1</td>
<td>1</td>
<td>69.9 (2.75)</td>
<td>-</td>
<td>26.9 (1.06)</td>
<td>-</td>
</tr>
<tr>
<td>FD49-1001-08-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>1/2-14</td>
<td>Female NPT 2</td>
<td>2</td>
<td>72.4 (2.85)</td>
<td>30.5 (1.20)</td>
<td>-</td>
<td>26.9 (1.06)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A (mm) (in)</th>
<th>Dimensions B (mm) (in)</th>
<th>Hex (mm)</th>
<th>Hex (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD49-1004-08-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>3/4-16</td>
<td>Female SAE O-Ring 1</td>
<td>1</td>
<td>69.9 (2.75)</td>
<td>-</td>
<td>26.9 (1.06)</td>
<td>-</td>
</tr>
<tr>
<td>FD49-1005-08-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>3/4-16</td>
<td>Female SAE O-Ring 2</td>
<td>2</td>
<td>71.6 (2.82)</td>
<td>30.5 (1.20)</td>
<td>-</td>
<td>26.9 (1.06)</td>
</tr>
</tbody>
</table>

### Dimensions (Male SAE O-Ring, Valved)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A (mm) (in)</th>
<th>Dimensions B (mm) (in)</th>
<th>Hex (mm)</th>
<th>Hex (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD49-1057-06-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>9/16-18</td>
<td>Male SAE O-Ring 3</td>
<td>3</td>
<td>75.9 (2.99)</td>
<td>-</td>
<td>25.4 (1.00)</td>
<td>-</td>
</tr>
<tr>
<td>FD49-1057-08-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>3/4-16</td>
<td>Male SAE O-Ring 3</td>
<td>3</td>
<td>75.9 (2.99)</td>
<td>-</td>
<td>25.4 (1.00)</td>
<td>-</td>
</tr>
</tbody>
</table>

### Dust Cap/Plug, Standard Coupling

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD49-1042-06</td>
<td>3/8</td>
</tr>
</tbody>
</table>

Note: Fits male and female halves.
FD96 Series
High Pressure Thread to Connect Flush Face

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

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

Applications & Markets
- Hydraulic fluid transfer
- High impulse hydraulics
- Oil field
- Mining

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure</th>
<th>Socket/Female Half</th>
<th>Min. Burst Pressure</th>
<th>Fluid Loss</th>
<th>Req. Torque to Connect</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(bar)  (psi)</td>
<td>(bar)  (psi)</td>
<td>(bar)  (psi)</td>
<td>(gpm)</td>
<td>cc. lbs. (N)</td>
</tr>
<tr>
<td>1/4</td>
<td>600 8,700 600 8,700</td>
<td>420 6,090</td>
<td>1,500 21,750</td>
<td>1,260</td>
<td>12 3.2 0.12 29-37 40-50</td>
</tr>
<tr>
<td>3/8</td>
<td>550 7,980 550 7,980</td>
<td>330 4,785</td>
<td>1,400 20,300</td>
<td>1,000</td>
<td>23 6.1 0.04 37-44 50-60</td>
</tr>
<tr>
<td>1/2</td>
<td>550 7,980 550 7,980</td>
<td>330 4,785</td>
<td>1,400 20,300</td>
<td>1,000</td>
<td>45 11.9 0.25 48-55 65-75</td>
</tr>
<tr>
<td>3/4</td>
<td>550 7,980 550 7,980</td>
<td>330 4,785</td>
<td>1,400 20,300</td>
<td>1,000</td>
<td>74 19.6 0.03 52-59 70-80</td>
</tr>
<tr>
<td>1</td>
<td>500 7,250 500 7,250</td>
<td>270 3,915</td>
<td>1,250 18,125</td>
<td>1,250</td>
<td>100 26.5 0.18 66-81 90-110</td>
</tr>
<tr>
<td>1 1/4</td>
<td>470 6,800 470 6,800</td>
<td>200 3,250</td>
<td>1,200 17,400</td>
<td>1,000</td>
<td>189 50.1 0.06 92-107 125-145</td>
</tr>
<tr>
<td>1 1/2</td>
<td>400 5,800 400 5,800</td>
<td>140 2,100</td>
<td>1,100 15,950</td>
<td>1,100</td>
<td>288 76.3 0.20 114-129 155-175</td>
</tr>
<tr>
<td>2</td>
<td>350 5,080 350 5,080</td>
<td>70 1,050</td>
<td>1,000 15,950</td>
<td>1,000</td>
<td>379 100.4 0.35 236-258 320-355</td>
</tr>
</tbody>
</table>

Flow Data

- Pressure drop versus flow
- Test fluid: Oil ISO VG32 40°C

Connected Length

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Port Size</th>
<th>Connected Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(in)</td>
</tr>
<tr>
<td>1/4</td>
<td>3/8</td>
<td>90.0 (3.54)</td>
</tr>
<tr>
<td>3/8</td>
<td>3/8</td>
<td>121.0 (4.76)</td>
</tr>
<tr>
<td>3/8</td>
<td>1/2</td>
<td>110.0 (4.33)</td>
</tr>
<tr>
<td>1/2</td>
<td>1/2</td>
<td>155.0 (6.10)</td>
</tr>
<tr>
<td>1/2</td>
<td>3/4</td>
<td>160.0 (6.30)</td>
</tr>
<tr>
<td>3/4</td>
<td>3/4</td>
<td>165.0 (6.50)</td>
</tr>
<tr>
<td>1</td>
<td>1 1/4</td>
<td>170.0 (6.69)</td>
</tr>
<tr>
<td>1 1/2</td>
<td>1 1/2</td>
<td>256.0 (10.06)</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>363.5 (14.31)</td>
</tr>
</tbody>
</table>
# FD96 Series
## High Pressure
Thread to Connect Flush Face

### Dimensions (Female NPT)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions A (mm)</th>
<th>B (mm)</th>
<th>Hex (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD96-1001-06-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Female NPT</td>
<td>2</td>
<td>65.8 (2.59)</td>
<td>41.8 (1.65)</td>
</tr>
<tr>
<td>FD96-1002-06-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Female NPT</td>
<td>1</td>
<td>82.5 (3.25)</td>
<td>37.8 (1.49)</td>
</tr>
<tr>
<td>FD96-1001-08-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2-14</td>
<td>Female NPT</td>
<td>2</td>
<td>70.8 (2.79)</td>
<td>41.8 (1.65)</td>
</tr>
<tr>
<td>FD96-1002-08-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2-14</td>
<td>Female NPT</td>
<td>1</td>
<td>85.0 (3.35)</td>
<td>37.8 (1.49)</td>
</tr>
<tr>
<td>FD96-1001-09-08</td>
<td>Socket/Female</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2-14</td>
<td>Female NPT</td>
<td>2</td>
<td>77.8 (3.06)</td>
<td>49.8 (1.96)</td>
</tr>
<tr>
<td>FD96-1002-08-08</td>
<td>Plug/Male</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2-14</td>
<td>Female NPT</td>
<td>1</td>
<td>95.0 (3.74)</td>
<td>45.8 (1.80)</td>
</tr>
<tr>
<td>FD96-1001-12-08</td>
<td>Socket/Female</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4-14</td>
<td>Female NPT</td>
<td>2</td>
<td>84.8 (3.30)</td>
<td>49.8 (1.96)</td>
</tr>
<tr>
<td>FD96-1002-12-08</td>
<td>Plug/Male</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4-14</td>
<td>Female NPT</td>
<td>1</td>
<td>97.4 (3.83)</td>
<td>45.8 (1.80)</td>
</tr>
<tr>
<td>FD96-1001-12-12</td>
<td>Socket/Female</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14</td>
<td>Female NPT</td>
<td>2</td>
<td>84.9 (3.34)</td>
<td>53.8 (2.12)</td>
</tr>
<tr>
<td>FD96-1002-12-12</td>
<td>Plug/Male</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14</td>
<td>Female NPT</td>
<td>1</td>
<td>99.0 (3.90)</td>
<td>49.8 (1.96)</td>
</tr>
<tr>
<td>FD96-1001-12-16</td>
<td>Socket/Female</td>
<td>1 1/4</td>
<td>1 1/4</td>
<td>1 1/4-12</td>
<td>Female NPT</td>
<td>2</td>
<td>113.6 (4.47)</td>
<td>58.8 (2.31)</td>
</tr>
<tr>
<td>FD96-1002-12-16</td>
<td>Plug/Male</td>
<td>1 1/4</td>
<td>1 1/4</td>
<td>1 1/4-12</td>
<td>Female NPT</td>
<td>1</td>
<td>133.5 (5.26)</td>
<td>92.0 (3.62)</td>
</tr>
<tr>
<td>FD96-1001-16-20</td>
<td>Socket/Female</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2-14</td>
<td>Female NPT</td>
<td>2</td>
<td>150.0 (5.91)</td>
<td>89.8 (3.54)</td>
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<tr>
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<td>150.0 (5.91)</td>
<td>89.8 (3.54)</td>
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<tr>
<td>FD96-1001-16-24</td>
<td>Socket/Female</td>
<td>1 1 1/2</td>
<td>1 1 1/2</td>
<td>1-11 1/2</td>
<td>Female NPT</td>
<td>2</td>
<td>224.8 (8.85)</td>
<td>200.0 (7.87)</td>
</tr>
<tr>
<td>FD96-1002-16-24</td>
<td>Plug/Male</td>
<td>1 1 1/2</td>
<td>1 1 1/2</td>
<td>1-11 1/2</td>
<td>Female NPT</td>
<td>1</td>
<td>224.8 (8.85)</td>
<td>200.0 (7.87)</td>
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### Dimensions (Female SAE O-Ring)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions A (mm)</th>
<th>B (mm)</th>
<th>Hex (mm)</th>
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<tbody>
<tr>
<td>FD96-1004-06-06</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>3/8</td>
<td>9/16-18 UNF</td>
<td>Female SAE O-Ring</td>
<td>2</td>
<td>57.1 (2.25)</td>
<td>28.8 (1.13)</td>
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<tr>
<td>FD96-1005-06-06</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>3/8</td>
<td>9/16-18 UNF</td>
<td>Female SAE O-Ring</td>
<td>1</td>
<td>72.8 (2.87)</td>
<td>34.8 (1.37)</td>
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<tr>
<td>FD96-1004-08-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>1/2</td>
<td>3/4-16 UNF</td>
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<td>41.8 (1.65)</td>
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<tr>
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<td>1/2</td>
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<td>87.0 (3.43)</td>
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<td>FD96-1004-12-08</td>
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<td>1/2</td>
<td>3/4</td>
<td>11/16-12 UNF</td>
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<td>84.8 (3.34)</td>
<td>49.8 (1.96)</td>
</tr>
<tr>
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<td>Plug/Male</td>
<td>1/2</td>
<td>3/4</td>
<td>11/16-12 UNF</td>
<td>Female SAE O-Ring</td>
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<td>104.0 (4.09)</td>
<td>45.8 (1.80)</td>
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<tr>
<td>FD96-1004-12-12</td>
<td>Socket/Female</td>
<td>3/4</td>
<td>3/4</td>
<td>1 1/2-11 1/2 UNF</td>
<td>Female SAE O-Ring</td>
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<td>92.0 (3.62)</td>
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<td>Female SAE O-Ring</td>
<td>1</td>
<td>224.8 (8.85)</td>
<td>200.0 (7.87)</td>
</tr>
<tr>
<td>FD96-1004-16-16</td>
<td>Socket/Female</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2-11 1/2 UNF</td>
<td>Female SAE O-Ring</td>
<td>2</td>
<td>224.8 (8.85)</td>
<td>200.0 (7.87)</td>
</tr>
<tr>
<td>FD96-1005-16-16</td>
<td>Plug/Male</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2-11 1/2 UNF</td>
<td>Female SAE O-Ring</td>
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<td>224.8 (8.85)</td>
<td>200.0 (7.87)</td>
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</table>

### Dust Caps and Dust Plugs

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Cap Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>FD96-1009-04</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>3/8</td>
<td>FD96-1009-06</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1/2</td>
<td>FD96-1009-08</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>3/4</td>
<td>FD96-1009-12</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1</td>
<td>FD96-1009-16</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1 1/4</td>
<td>FD96-1009-20</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1/2</td>
<td>FD96-1009-24</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>FD96-1009-32</td>
<td>Socket/Female</td>
<td>Aluminum</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Cap Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>FD96-1010-04</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
<tr>
<td>3/8</td>
<td>FD96-1010-06</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
<tr>
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<td>Aluminum</td>
</tr>
<tr>
<td>3/4</td>
<td>FD96-1010-12</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1</td>
<td>FD96-1010-16</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1 1/4</td>
<td>FD96-1010-20</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1/2</td>
<td>FD96-1010-24</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
<tr>
<td>2</td>
<td>FD96-1010-32</td>
<td>Plug/Male</td>
<td>Aluminum</td>
</tr>
</tbody>
</table>
Eaton’s MLDB Series stainless steel coupling is a flat face/dry break coupling used for fluid transfer applications. The MLDB Series offers the ability to connect with less force, higher sealing performance and are available in multiple configurable end connections.

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 color coding ring option available in ½” 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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>5.9</td>
<td>25</td>
<td>360</td>
<td>15</td>
<td>4</td>
<td>0.002</td>
<td>0.009</td>
</tr>
<tr>
<td>½</td>
<td>11.5</td>
<td>25</td>
<td>360</td>
<td>73</td>
<td>19</td>
<td>0.012</td>
<td>0.025</td>
</tr>
<tr>
<td>¾</td>
<td>15.5</td>
<td>25</td>
<td>360</td>
<td>120</td>
<td>32</td>
<td>0.030</td>
<td>0.050</td>
</tr>
<tr>
<td>1</td>
<td>18.5</td>
<td>25</td>
<td>360</td>
<td>200</td>
<td>53</td>
<td>0.150</td>
<td>0.130</td>
</tr>
</tbody>
</table>

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

Applications & Markets
- Process/Fluid transfer
- Cooling
- Corrosive environments
- Chemicals/Petrochemicals
- Pharmaceuticals
- Food processing
- Electrical

Flow Data

<table>
<thead>
<tr>
<th>Pressure Drop, psi</th>
<th>Flow Rate (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.264</td>
<td>0.13</td>
</tr>
<tr>
<td>0.297</td>
<td>0.20</td>
</tr>
<tr>
<td>0.324</td>
<td>0.27</td>
</tr>
<tr>
<td>0.351</td>
<td>0.33</td>
</tr>
<tr>
<td>0.378</td>
<td>0.40</td>
</tr>
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</table>

Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM</td>
<td>-20°C to +200°C/-4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)</td>
<td>-40°C to +150°C/-40°F to +302°F</td>
</tr>
<tr>
<td>Kalrez® 6375</td>
<td>-20°C to +275°C/-4°F to +527°F</td>
</tr>
<tr>
<td>Generic FFKM</td>
<td>-15°C to +275°C/+5°F to +527°F</td>
</tr>
</tbody>
</table>

* 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**

---

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKMS50FBS</td>
<td>1/4-19</td>
<td>1.79 x 0.96 x 0.87</td>
<td>45.4 lbs</td>
</tr>
<tr>
<td>FKMS50FBS</td>
<td>1/2-18</td>
<td>1.73 x 0.96 x 0.87</td>
<td>43.9 lbs</td>
</tr>
<tr>
<td>FKMS50FBS</td>
<td>3/4-14</td>
<td>2.44 x 1.4 x 1.28</td>
<td>61.9 lbs</td>
</tr>
<tr>
<td>FKMS50FBS</td>
<td>1-11/4</td>
<td>2.44 x 1.4 x 1.28</td>
<td>61.9 lbs</td>
</tr>
<tr>
<td>FKMS50FBS</td>
<td>1-11/2</td>
<td>3.02 x 1.89 x 1.61</td>
<td>76.8 lbs</td>
</tr>
<tr>
<td>FKMS50FBS</td>
<td>1-3/4-14</td>
<td>3.02 x 1.89 x 1.61</td>
<td>76.8 lbs</td>
</tr>
</tbody>
</table>

---

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML2DBP25FS</td>
<td>1/4-19</td>
<td>1.72 x 0.96 x 1.07</td>
<td>43.8 lbs</td>
</tr>
<tr>
<td>ML2DBP25FS</td>
<td>1/2-18</td>
<td>1.66 x 0.96 x 1.25</td>
<td>42.1 lbs</td>
</tr>
<tr>
<td>ML2DBP25FS</td>
<td>3/4-14</td>
<td>2.39 x 1.4 x 1.26</td>
<td>60.7 lbs</td>
</tr>
<tr>
<td>ML2DBP25FS</td>
<td>1-11/4</td>
<td>2.39 x 1.4 x 1.26</td>
<td>60.7 lbs</td>
</tr>
<tr>
<td>ML2DBP25FS</td>
<td>1-11/2</td>
<td>3.52 x 1.59 x 2.16</td>
<td>86.4 lbs</td>
</tr>
<tr>
<td>ML2DBP25FS</td>
<td>1-3/4-14</td>
<td>3.52 x 1.59 x 2.16</td>
<td>86.4 lbs</td>
</tr>
</tbody>
</table>

---

### Seal Kit and Tool for Servicing Sockets (Female)

- **Body Size**
  - 1/4
  - 1/2
  - 3/4
  - 1

### Seal Kit and Tool for Servicing Plugs (Male)

- **Body Size**
  - 1/4
  - 1/2
  - 3/4
  - 1

---

### Color Coding Ring Option

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket/Female Ring**</th>
<th>Plug/Male Ring**</th>
<th>Tool &amp; Rings Kit Part Number***</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>Blue</td>
<td>Blue</td>
<td>CR4DBESPB93</td>
</tr>
<tr>
<td></td>
<td>**</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td></td>
<td>CRKIT4DB</td>
<td>**</td>
<td>**</td>
</tr>
</tbody>
</table>

---

*Alternative end connections available upon request.*

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

---

*For requests on other sizes, 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.*

---

*For installation instructions, please contact your Eaton sales representative.*

For installation instructions, please contact your Eaton sales representative. No tool required for servicing of the plug(male).
5100 Series
Thread to Connect

Eaton’s 5100 Series brass coupling with steel tubular valve offers minimum air inclusion and fluid loss. Thread together latch provides connect under pressure capability and vibration resistance. The 5100 Series is not rated for continuous hydraulic impulse applications. For hydraulic impulse applications, refer to the FD86 and FD96 Series thread to connect product lines.

Product Features
- Tubular valve construction for virtually no fluid loss during disconnection, reduces environmental and worker safety hazards
- Low air inclusion during connection maintains system performance
- Available with wing or hex nut configurations
- Connect against pressure capability allows connecting of halves even when pressurized up to 500 psi
- Steel flange available for accessible bulkhead mounting
- Standard seal material: Buna-N
- Standard body material: Brass body with high resistance carbon steel with zinc trivalent plated valving components, hex and wing nuts

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Dash Size</th>
<th>Body Interface Size</th>
<th>Max. Operating Pressure Connected</th>
<th>Max. Operating Pressure Disconnected</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(in)</td>
<td>(bar) (psi)</td>
<td>Plug/Male Half S2 and S4 207 3,000</td>
</tr>
<tr>
<td>1/4</td>
<td>1/4</td>
<td>207 3,000</td>
<td>Socket/Female Half S5 207 3,000 28</td>
</tr>
<tr>
<td>3/8</td>
<td>1/2</td>
<td>207 3,000</td>
<td>Vac 28 15 4 .03 .01</td>
</tr>
<tr>
<td>1/2</td>
<td>1/2</td>
<td>207 3,000</td>
<td>Flow 26 7 .05 .10</td>
</tr>
<tr>
<td>5/8</td>
<td>3/4</td>
<td>207 3,000</td>
<td>Air Inclusion 68 18 .14 .10</td>
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<tr>
<td>3/4</td>
<td>3/4</td>
<td>207 3,000</td>
<td>Fluid Loss 68 18 .34 .26</td>
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<td>1</td>
<td>207 3,000</td>
<td></td>
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<tr>
<td>1 1/4</td>
<td>1 1/4</td>
<td>190 2,750</td>
<td></td>
</tr>
<tr>
<td>1 1/2</td>
<td>1 1/2</td>
<td>172 2,500</td>
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</table>

Applications & Markets
- Hydraulics and fluid transfer
- On-highway hydraulic wet lines
- Dump and refuse vehicles
- Bulk liquid transfer

Flow Data

Pressure Drop Versus Flow Graph

Gallons Per Minute Flow

Test Fluid: MIL-H-5606 Oil at 100°F
# 5100 Series
## Thread to Connect

### Dimensions (Female NPT, Valved without Flange)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Size</th>
<th>Body Size</th>
<th>Port Thread Type</th>
<th>Dimensions</th>
<th>Hex B</th>
<th>Hex A</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fig. A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>5100-S2-4B</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8-27 Female NPT</td>
<td>1</td>
<td>47.8</td>
<td>(1.88)</td>
</tr>
<tr>
<td>5110-S5-4B</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8-27 Female NPT</td>
<td>2</td>
<td>53.3</td>
<td>(2.10)</td>
</tr>
<tr>
<td>5111-4B</td>
<td>Complete</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8-27 Female NPT</td>
<td>3</td>
<td>81.3</td>
<td>(3.20)</td>
</tr>
<tr>
<td>5100-S2-6B</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>1/4</td>
<td>1/4-18 Female NPT</td>
<td>1</td>
<td>65.5</td>
<td>(2.58)</td>
</tr>
<tr>
<td>5110-S5-6B</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>1/4</td>
<td>1/4-18 Female NPT</td>
<td>2</td>
<td>61.0</td>
<td>(2.40)</td>
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<tr>
<td>5111-6B</td>
<td>Complete</td>
<td>3/8</td>
<td>1/4</td>
<td>1/4-18 Female NPT</td>
<td>3</td>
<td>104.4</td>
<td>(4.11)</td>
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<tr>
<td>5100-S2-8B</td>
<td>Plug/Male</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>1</td>
<td>65.5</td>
<td>(2.58)</td>
</tr>
<tr>
<td>5110-S5-8B</td>
<td>Socket/Female</td>
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<td>1/2</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>3</td>
<td>104.4</td>
<td>(4.11)</td>
</tr>
<tr>
<td>5100-S2-10B</td>
<td>Plug/Male</td>
<td>5/8</td>
<td>1/2</td>
<td>1/2-14 Female NPT</td>
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<td>79.0</td>
<td>(3.11)</td>
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<tr>
<td>5110-S5-10B</td>
<td>Socket/Female</td>
<td>5/8</td>
<td>1/2</td>
<td>1/2-14 Female NPT</td>
<td>2</td>
<td>78.0</td>
<td>(3.07)</td>
</tr>
<tr>
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<td>1/2</td>
<td>1/2-14 Female NPT</td>
<td>3</td>
<td>132.3</td>
<td>(5.21)</td>
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<tr>
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<td>Plug/Male</td>
<td>3/4</td>
<td>3/4</td>
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<td>1</td>
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<td>(3.11)</td>
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<tr>
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<td>Socket/Female</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14 Female NPT</td>
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<td>78.0</td>
<td>(3.07)</td>
</tr>
<tr>
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<td>3/4</td>
<td>3/4-14 Female NPT</td>
<td>3</td>
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</tr>
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<td>(3.71)</td>
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<td>1 1/4</td>
<td>1 1/4 - 11 1/2 Female NPT</td>
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<td>(4.00)</td>
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<td>1 1/4</td>
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<td>(6.31)</td>
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<td>1 1/2</td>
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<td>(4.12)</td>
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<td>(4.10)</td>
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<td>3</td>
<td>165.6</td>
<td>(6.52)</td>
</tr>
</tbody>
</table>

**Figure 1**

**Figure 2**

**Figure 3**
## 5100 Series

**Thread to Connect**

### Dimensions (Female NPT, Valved WITH Flange)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>B</th>
<th>Hex</th>
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<tbody>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>mm (in)</td>
<td>mm (in)</td>
<td>mm (in)</td>
</tr>
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<td>Plug/Male</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8-27</td>
<td>4</td>
<td>47.8 (1.88)</td>
<td>22.4 (.88)</td>
<td>23.3 (.96)</td>
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<td>Complete</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8-27</td>
<td>5</td>
<td>81.3 (3.20)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5100-S4-6B</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>1/4</td>
<td>1/4-18</td>
<td>4</td>
<td>65.5 (2.58)</td>
<td>26.7 (1.05)</td>
<td>28.5 (1.12)</td>
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<td>Complete</td>
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<td>1/4</td>
<td>1/4-18</td>
<td>5</td>
<td>104.4 (4.11)</td>
<td>-</td>
<td>-</td>
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<tr>
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<td>Plug/Male</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18</td>
<td>4</td>
<td>65.5 (2.58)</td>
<td>26.7 (1.05)</td>
<td>28.5 (1.12)</td>
</tr>
<tr>
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<td>Complete</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18</td>
<td>5</td>
<td>104.4 (4.11)</td>
<td>-</td>
<td>-</td>
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<td>Plug/Male</td>
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<td>1/2</td>
<td>1/2-14</td>
<td>4</td>
<td>79.0 (3.11)</td>
<td>35.2 (1.35)</td>
<td>41.2 (1.62)</td>
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<td>1/2</td>
<td>1/2-14</td>
<td>5</td>
<td>132.3 (5.21)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>5100-S4-12B</td>
<td>Plug/Male</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14</td>
<td>4</td>
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<td>35.2 (1.35)</td>
<td>41.2 (1.62)</td>
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<td>Complete</td>
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<td>3/4</td>
<td>3/4-14</td>
<td>5</td>
<td>132.3 (5.21)</td>
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<td>-</td>
</tr>
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<td>Plug/Male</td>
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<td>1-11/2</td>
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<td>44.2 (1.74)</td>
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<td>1 1/4</td>
<td>1 1/4 - 1 1/2</td>
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<td>1 1/4</td>
<td>1 1/4 - 1 1/2</td>
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<td>-</td>
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<td>1 1/2</td>
<td>1 1/2 - 1 1/2</td>
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<td>104.6 (4.12)</td>
<td>62.5 (2.46)</td>
<td>63.5 (2.50)</td>
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### Dimensions (Female NPT, Valved WITH Wing Nut Less Flange)

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<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>B</th>
<th>Hex</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>mm (in)</td>
<td>mm (in)</td>
<td>mm (in)</td>
</tr>
<tr>
<td>5100-S5-4B</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8-27</td>
<td>6</td>
<td>53.3 (2.10)</td>
<td>77.0 (3.03)</td>
<td>14.2 (.56)</td>
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<td>Complete</td>
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<td>1/8</td>
<td>1/8-27</td>
<td>7</td>
<td>81.3 (3.20)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5100-S5-6B</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>1/4</td>
<td>1/4-18</td>
<td>6</td>
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<td>87.4 (3.44)</td>
<td>19.3 (.76)</td>
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<td>3/8</td>
<td>1/4</td>
<td>1/4-18</td>
<td>7</td>
<td>104.4 (4.11)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5100-S5-8B</td>
<td>Socket/Female</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18</td>
<td>6</td>
<td>61.0 (2.40)</td>
<td>87.4 (3.44)</td>
<td>19.3 (.76)</td>
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<tr>
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<td>Complete</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18</td>
<td>7</td>
<td>104.4 (4.11)</td>
<td>-</td>
<td>-</td>
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<td>5/8</td>
<td>1/2</td>
<td>1/2-14</td>
<td>6</td>
<td>78.0 (3.07)</td>
<td>104.9 (4.13)</td>
<td>29.5 (1.16)</td>
</tr>
<tr>
<td>5101-10B</td>
<td>Complete</td>
<td>5/8</td>
<td>1/2</td>
<td>1/2-14</td>
<td>7</td>
<td>132.3 (5.21)</td>
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<td>-</td>
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<tr>
<td>5100-S5-12B</td>
<td>Socket/Female</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14</td>
<td>6</td>
<td>78.0 (3.07)</td>
<td>104.9 (4.13)</td>
<td>29.5 (1.16)</td>
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<tr>
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<td>Complete</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14</td>
<td>7</td>
<td>132.3 (5.21)</td>
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<td>111.3 (4.38)</td>
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<td>1</td>
<td>1-11/2</td>
<td>1</td>
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<td>151.9 (5.98)</td>
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<td>1 1/4</td>
<td>1 1/4 - 1 1/2</td>
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<td>133.9 (5.27)</td>
<td>45.2 (1.78)</td>
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<td>1 1/4</td>
<td>1 1/4 - 1 1/2</td>
<td>7</td>
<td>160.3 (6.31)</td>
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<td>-</td>
</tr>
<tr>
<td>5100-S5-24B</td>
<td>Socket/Female</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2 - 1 1/2</td>
<td>6</td>
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<td>136.7 (5.38)</td>
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<td>1 1/2</td>
<td>1 1/2 - 1 1/2</td>
<td>7</td>
<td>165.6 (6.52)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: Uses the 5100-S2 series plug/male half shown on page 49.
5100 Series
Thread to Connect

![Figure 8]

### Dimensions (Female NPT, Valved WITH Wing Nut and Flange)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Dimensions</th>
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<td></td>
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<td>mm (in)</td>
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<td>1/8-27</td>
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<td>1/4</td>
<td>1/4-18</td>
<td>Female NPT</td>
</tr>
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<td>5100-8B</td>
<td>Complete</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Female NPT</td>
</tr>
<tr>
<td>5100-10B</td>
<td>Complete</td>
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<td>1/2</td>
<td>1/2-14</td>
<td>Female NPT</td>
</tr>
<tr>
<td>5100-12B</td>
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<td>3/4</td>
<td>3/4-14</td>
<td>Female NPT</td>
</tr>
<tr>
<td>5100-16B</td>
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<td>1</td>
<td>1</td>
<td>1-11 1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>5100-20B</td>
<td>Complete</td>
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<td>1 1/4</td>
<td>1 1/4 - 1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>5100-24B</td>
<td>Complete</td>
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<td>1 1/2</td>
<td>1 1/2 - 1/2</td>
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</table>

Note: Uses the 5100-S2 series plug/male half shown on page 49.

### Repair Kits

<table>
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<tbody>
<tr>
<td>FF098-04</td>
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</tr>
<tr>
<td>FF098-08</td>
<td>3/8 &amp; 1/2</td>
</tr>
<tr>
<td>FF098-12</td>
<td>5/8 &amp; 3/4</td>
</tr>
<tr>
<td>FF098-16</td>
<td>1</td>
</tr>
<tr>
<td>FF098-20</td>
<td>1 1/4</td>
</tr>
<tr>
<td>FF098-24</td>
<td>1 1/2</td>
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</table>

Note: Each kit will repair both plug/male and socket/female halves.

### Dust Caps and Dust Plugs

<table>
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<th>Part Number</th>
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<td>5100-S7-5</td>
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</tr>
<tr>
<td>5100-S7-8</td>
<td>3/8 &amp; 1/2</td>
</tr>
<tr>
<td>5100-S7-12</td>
<td>5/8 &amp; 3/4</td>
</tr>
<tr>
<td>5100-S7-16</td>
<td>1</td>
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<td>5100-S7-20</td>
<td>1 1/4</td>
</tr>
<tr>
<td>5100-S7-24</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>

### 6-Bolt Flange Assembly

<table>
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<th>Body Size</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
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<tbody>
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<td>150-22-5</td>
<td>1/4</td>
<td>5.11 (0.201)</td>
<td>33.6 (1.32)</td>
</tr>
<tr>
<td>150-22-8</td>
<td>3/8 &amp; 1/2</td>
<td>5.11 (0.201)</td>
<td>42.9 (1.69)</td>
</tr>
<tr>
<td>150-22-12</td>
<td>5/8 &amp; 3/4</td>
<td>5.11 (0.201)</td>
<td>53.8 (2.12)</td>
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<td>150-22-16</td>
<td>1</td>
<td>5.11 (0.201)</td>
<td>60.5 (2.38)</td>
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<tr>
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<td>1 1/4</td>
<td>5.11 (0.201)</td>
<td>66.5 (2.62)</td>
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<td>150-22-245</td>
<td>1 1/2</td>
<td>5.11 (0.201)</td>
<td>82.6 (3.25)</td>
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</table>

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

**6 Bolt Flange-holes equally spaced. (See “A” for bolt hole diameter, and “B” for bolt circle diameter).
FD85 Series
Thread to Connect

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

Product Features

- Thread to connect feature allows for use in high vibration and impulse applications
- Standard body material: Zinc trivalent plated carbon steel. Stainless steel construction available upon request.
- Connect under pressure capability up to 5,000 psi (345 bar)
- Standard seal material: Buna-N. FKM seals are available upon request.
- Wing nut design allows for easy connection and disconnection.
- 3/4” design is offered in a hex nut design
- Available sizes include: 3/4”, 1”, 1 1/2”
- Female NPTF and BSPP ends available.

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure Connected</th>
<th>Min. Burst Pressure</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
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<tbody>
<tr>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>(bar)</td>
<td>(psi)</td>
</tr>
<tr>
<td>3/4</td>
<td>345</td>
<td>5,000</td>
<td>1,379</td>
<td>20,000</td>
</tr>
<tr>
<td>1</td>
<td>345</td>
<td>5,000</td>
<td>1,379</td>
<td>20,000</td>
</tr>
<tr>
<td>1 1/2</td>
<td>345</td>
<td>5,000</td>
<td>1,035</td>
<td>15,000</td>
</tr>
</tbody>
</table>

Applications & Markets

- Oilfields
- Offshore Drilling
- Construction
- Oil and Gas
## FD85 Series

Thread to Connect

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(in)</td>
</tr>
<tr>
<td>FD85-1001-12-12</td>
<td>Plug/Male</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>1</td>
</tr>
<tr>
<td>FD85-1017-12-12</td>
<td>Plug/Male</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>1</td>
</tr>
<tr>
<td>FD85-1001-16-16</td>
<td>Plug/Male</td>
<td>1</td>
<td>1 11-1/2 NPTF</td>
<td>1</td>
</tr>
<tr>
<td>FD85-1017-16-16</td>
<td>Plug/Male</td>
<td>1</td>
<td>1 11-1/2 NPTF</td>
<td>1</td>
</tr>
<tr>
<td>FD85-1001-24-24</td>
<td>Plug/Male</td>
<td>1 1/2</td>
<td>1 1/2 11-1/2 NPTF</td>
<td>1</td>
</tr>
<tr>
<td>FD85-1017-24-24</td>
<td>Plug/Male</td>
<td>1 1/2</td>
<td>1 1/2 11-1/2 NPTF</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(in)</td>
</tr>
<tr>
<td>FD85-1003-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1 11-1/2 NPTF</td>
<td>2</td>
</tr>
<tr>
<td>FD85-1019-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1 11-1/2 NPTF</td>
<td>2</td>
</tr>
<tr>
<td>FD85-1003-24-24</td>
<td>Socket/Female</td>
<td>1 1/2</td>
<td>1 1/2 11-1/2 NPTF</td>
<td>2</td>
</tr>
<tr>
<td>FD85-1019-24-24</td>
<td>Socket/Female</td>
<td>1 1/2</td>
<td>1 1/2 11-1/2 NPTF</td>
<td>2</td>
</tr>
</tbody>
</table>

### Complete Sets*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FD85-1000-12-12</td>
<td>Complete</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>1 &amp; 3</td>
</tr>
<tr>
<td>FD85-1016-12-12</td>
<td>Complete</td>
<td>3/4</td>
<td>3/4-14 NPTF</td>
<td>1 &amp; 3</td>
</tr>
<tr>
<td>FD85-1000-16-16</td>
<td>Complete</td>
<td>1</td>
<td>1 11-1/2 NPTF</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>FD85-1016-16-16</td>
<td>Complete</td>
<td>1</td>
<td>1 11-1/2 NPTF</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>FD85-1000-24-24</td>
<td>Complete</td>
<td>1 1/2</td>
<td>1 1/2 11-1/2 NPTF</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>FD85-1016-24-24</td>
<td>Complete</td>
<td>1 1/2</td>
<td>1 1/2 11-1/2 NPTF</td>
<td>1 &amp; 2</td>
</tr>
</tbody>
</table>

*Includes one socket/female and one plug/male half in the outlined size.
FD86 Series
Thread to Connect
5,000 psi Dry Break – High Impulse

Eaton’s FD86 Series is a thread together steel quick coupling offering dry break and high impulse technology and capabilities. The maximum operating pressure is 5,000 psi. The FD86 Series is available in either wing nut or hex nut configurations for ease of assembly and disassembly. (For higher pressure applications and additional size requirements, refer to FD96 on page 44.)

Product Features
- Tubular valve and sleeve construction for low fluid loss and air inclusion
- Thread together design using wing or hex nut allows connection and disconnection against pressures up to 750 psi
- Teflon® back-up rings along with secondary metal-to-metal sealing contact provides high impulse capability up to 5,000 psi operating pressure
- Acme threads prevent galling and provide ease of connection
- Steel flange available for bulkhead mounting
- Standard seal material: High resistance carbon steel with zinc trivalent plating

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure (bar)</th>
<th>Min. Burst Pressure (bar)</th>
<th>Vacuum Connected Only (in./Hg)</th>
<th>Rated Flow (lpm)</th>
<th>Air Inclusion cc. max.</th>
<th>Fluid Loss cc.max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>345</td>
<td>1,034</td>
<td>15,000</td>
<td>28</td>
<td>189</td>
<td>2.90</td>
</tr>
<tr>
<td>1 1/4</td>
<td>345</td>
<td>1,034</td>
<td>15,000</td>
<td>28</td>
<td>284</td>
<td>4.61</td>
</tr>
</tbody>
</table>

Applications & Markets
- Hydraulic and fluid transfer
- Mining equipment

Flow Data
Pressure Drop Versus Flow Graph

Test Fluid: MIL-H-5606 Oil at 100°F
## Dimensions (Female SAE O-Ring)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FKM</th>
<th>EPDM</th>
<th>Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Dimensions (mm (in))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>FD86-1008-16-16</td>
<td>FD86-1043-16-16</td>
<td>FD86-1053-16-16</td>
<td>Plug/Male</td>
<td>1</td>
<td>1/16</td>
<td>1/16-12</td>
<td>Female SAE O-Ring</td>
</tr>
<tr>
<td>FD86-1010-16-16</td>
<td>FD86-1044-16-16</td>
<td>FD86-1054-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1/16</td>
<td>1/16-12</td>
<td>Female SAE O-Ring</td>
</tr>
<tr>
<td>FD86-1006-16-16</td>
<td>FD86-1042-16-16</td>
<td>FD86-1052-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1/16</td>
<td>1/16-12</td>
<td>Female SAE O-Ring</td>
</tr>
<tr>
<td>FD86-1008-20-20</td>
<td>FD86-1043-20-20</td>
<td>FD86-1053-20-20</td>
<td>Plug/Male</td>
<td>1 1/4</td>
<td>1/8</td>
<td>1/8-12</td>
<td>Female SAE O-Ring</td>
</tr>
<tr>
<td>FD86-1010-20-20</td>
<td>FD86-1044-20-20</td>
<td>FD86-1054-20-20</td>
<td>Socket/Female</td>
<td>1 1/4</td>
<td>1/8</td>
<td>1/8-12</td>
<td>Female SAE O-Ring</td>
</tr>
<tr>
<td>FD86-1006-20-20</td>
<td>FD86-1042-20-20</td>
<td>FD86-1052-20-20</td>
<td>Socket/Female</td>
<td>1 1/4</td>
<td>1/8</td>
<td>1/8-12</td>
<td>Female SAE O-Ring</td>
</tr>
</tbody>
</table>

## Dimensions (Female NPT)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FKM</th>
<th>EPDM</th>
<th>Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Dimensions (mm (in))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>FD86-1002-16-16</td>
<td>FD86-1040-16-16</td>
<td>FD86-1050-16-16</td>
<td>Plug/Male</td>
<td>1</td>
<td>1-1/2</td>
<td>1-1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>FD86-1001-16-16</td>
<td>FD86-1039-16-16</td>
<td>FD86-1049-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1-1/2</td>
<td>1-1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>FD86-1004-16-16</td>
<td>FD86-1041-16-16</td>
<td>FD86-1051-16-16</td>
<td>Socket/Female</td>
<td>1</td>
<td>1-1/2</td>
<td>1-1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>FD86-1002-20-20</td>
<td>FD86-1040-20-20</td>
<td>FD86-1050-20-20</td>
<td>Plug/Male</td>
<td>1 1/4</td>
<td>1/4</td>
<td>1/4-1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>FD86-1001-20-20</td>
<td>FD86-1039-20-20</td>
<td>FD86-1049-20-20</td>
<td>Socket/Female</td>
<td>1 1/4</td>
<td>1/4</td>
<td>1/4-1/2</td>
<td>Female NPT</td>
</tr>
<tr>
<td>FD86-1004-20-20</td>
<td>FD86-1041-20-20</td>
<td>FD86-1051-20-20</td>
<td>Socket/Female</td>
<td>1 1/4</td>
<td>1/4</td>
<td>1/4-1/2</td>
<td>Female NPT</td>
</tr>
</tbody>
</table>

## Repair Kits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FKM</th>
<th>EPDM</th>
<th>Body Size</th>
<th>Coupling Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF10596-16</td>
<td>FF10597-16</td>
<td>FF10598-16</td>
<td>1</td>
<td>Male</td>
</tr>
<tr>
<td>FF10593-16</td>
<td>FF10594-16</td>
<td>FF10595-16</td>
<td>1</td>
<td>Female</td>
</tr>
<tr>
<td>FF10596-20</td>
<td>FF10597-20</td>
<td>FF10598-20</td>
<td>1 1/4</td>
<td>Male</td>
</tr>
<tr>
<td>FF10593-20</td>
<td>FF10594-20</td>
<td>FF10595-20</td>
<td>1 1/4</td>
<td>Female</td>
</tr>
</tbody>
</table>

## Dust Caps and Dust Plugs

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dust Cap with Chain</th>
<th>Dust Plug with Chain</th>
<th>Body Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD86-1018-16</td>
<td>FD86-1016-16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>FD86-1018-20</td>
<td>FD86-1016-20</td>
<td>1 1/4</td>
<td></td>
</tr>
</tbody>
</table>
W46000 Series

Eaton’s W46000 Series is a wing nut style screw to connect coupling used in hydraulic applications.

Product Features

- Wing Nut screw to connect
- Plug/Male half has bulkhead mount capability
- Metal dust caps and dust plugs
- Standard Body Material: Zinc trivalent plated steel
- Standard Seal Material: Nitrile

Physical Characteristics

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>DN/ND</th>
<th>Max. Operating Pressure (bar)</th>
<th>Min. Burst Pressure (bar)</th>
<th>Rated Flow (lpm)</th>
<th>Air Inclusion (ml max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4</td>
<td>16</td>
<td>250</td>
<td>1200</td>
<td>63</td>
<td>16,7</td>
</tr>
<tr>
<td>1</td>
<td>20</td>
<td>230</td>
<td>800</td>
<td>99</td>
<td>26,0</td>
</tr>
</tbody>
</table>

Applications & Markets

- Hydraulic Circuits

Flow Data

Flow rate (gpm)
Pressure drop (PSI)
Pressure drop (bar)
Flow rate (l/min)

<table>
<thead>
<tr>
<th>Size</th>
<th>DN/ND</th>
<th>Socket/Female</th>
<th>Socket Dust Plug Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig.</th>
<th>Dimensions L1</th>
<th>Hex 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>3/4</td>
<td>16</td>
<td>WA4604700</td>
<td>WA4614700 Socket/Female</td>
<td>G 3/4</td>
<td>1</td>
<td>77</td>
<td>M5</td>
<td>33</td>
</tr>
<tr>
<td>1</td>
<td>20</td>
<td>WA4605700</td>
<td>WA4615700 Socket/Female</td>
<td>G 1</td>
<td>1</td>
<td>83</td>
<td>M6</td>
<td>40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>DN/ND</th>
<th>Socket/Female</th>
<th>Socket Dust Plug Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig.</th>
<th>Dimensions L2</th>
<th>Hex 2</th>
<th>Hex 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>3/4</td>
<td>16</td>
<td>WA4604400</td>
<td>WA4614400 Plug/Male</td>
<td>G 3/4</td>
<td>2</td>
<td>78</td>
<td>G 1 1/4</td>
<td>46</td>
<td>50</td>
</tr>
<tr>
<td>1</td>
<td>20</td>
<td>WA4605400</td>
<td>WA4615400 Plug/Male</td>
<td>G 1</td>
<td>2</td>
<td>83</td>
<td>G 1 1/4</td>
<td>55</td>
<td>50</td>
</tr>
</tbody>
</table>
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 ¾”, 1” & 1¼ 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 trivalent plated steel
- Standard seal material: NBR

**Applications & Markets**
- Construction
- Agriculture
- Forestry machinery
- Snow-grooming machines

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure</th>
<th>Max. Residual Pressure during Connection</th>
<th>Rated Flow*</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>L/min</td>
</tr>
<tr>
<td>¾”</td>
<td>5.3 450</td>
<td>6525</td>
<td>50</td>
<td>725</td>
</tr>
<tr>
<td>¾”</td>
<td>7.3 450</td>
<td>6525</td>
<td>50</td>
<td>725</td>
</tr>
<tr>
<td>½”</td>
<td>10.2 400</td>
<td>5800**</td>
<td>50</td>
<td>725</td>
</tr>
<tr>
<td>½”</td>
<td>13.0 400</td>
<td>5800**</td>
<td>50</td>
<td>725</td>
</tr>
<tr>
<td>⅝”</td>
<td>16.9 300</td>
<td>4350</td>
<td>50</td>
<td>725</td>
</tr>
<tr>
<td>1¼”</td>
<td>22.4 300</td>
<td>4350</td>
<td>50</td>
<td>725</td>
</tr>
</tbody>
</table>

* 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.

**Flow Data**

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>-20°C to 100°C / -4°F to 212°F</td>
</tr>
</tbody>
</table>

* For reference only, based on Eaton recommended temperatures. Contact Eaton technical support for further information on fluid compatibility.
## W36000 Series
### Thread-to-Connect

**Sockets (Female) with Internal Thread**

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size*</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in) (mm)</td>
<td>(mm)</td>
<td>(Female)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NPT</td>
<td>BSPP</td>
<td>A (in)</td>
<td>B (in)</td>
<td>C (in)</td>
</tr>
<tr>
<td>WA360700</td>
<td>¼</td>
<td>-</td>
<td>0.94</td>
<td>0.94</td>
<td>0.87</td>
</tr>
<tr>
<td>WA362725</td>
<td>¼</td>
<td>-</td>
<td>0.94</td>
<td>0.94</td>
<td>0.87</td>
</tr>
<tr>
<td>WA3602725BS</td>
<td>¼</td>
<td>-</td>
<td>0.94</td>
<td>0.94</td>
<td>0.87</td>
</tr>
<tr>
<td>WA360700</td>
<td>½</td>
<td>-</td>
<td>0.94</td>
<td>0.94</td>
<td>0.87</td>
</tr>
</tbody>
</table>

* 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.**

**Sockets (Female) with External Thread**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size*</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in) (mm)</td>
<td>(mm)</td>
<td>(Male)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ISO 8434-1</td>
<td>ISO 8434-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(standard version)</td>
<td>(bulkhead version)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D (in)</td>
<td>E (in)</td>
<td>F (in)</td>
<td>G (in)</td>
<td>Across Flats (in)</td>
</tr>
<tr>
<td>WA363370BL</td>
<td>½</td>
<td>10 -</td>
<td>1.42</td>
<td>0.39</td>
<td>0.65</td>
</tr>
<tr>
<td>WA3633710L</td>
<td>½</td>
<td>10 -</td>
<td>1.42</td>
<td>0.43</td>
<td>0.63</td>
</tr>
<tr>
<td>WA3633712L</td>
<td>¼</td>
<td>1.42</td>
<td>0.43</td>
<td>0.71</td>
<td>1.61</td>
</tr>
<tr>
<td>WA3633715L</td>
<td>¼</td>
<td>1.42</td>
<td>0.47</td>
<td>0.87</td>
<td>1.61</td>
</tr>
</tbody>
</table>

* *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**

### Plugs (Male) with Internal Thread

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Male)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA3601400</td>
<td>¼</td>
<td>¼-19</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.41, grams 184</td>
</tr>
<tr>
<td>WA3624425BS</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.33, grams 150</td>
</tr>
<tr>
<td>WA3622425</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.39, grams 166</td>
</tr>
<tr>
<td>WA3602420</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
<tr>
<td>WA3622437</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 160</td>
</tr>
<tr>
<td>WA3624450</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 166</td>
</tr>
<tr>
<td>WA3623450</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
<tr>
<td>WA3603400</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
<tr>
<td>WA3623475</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
<tr>
<td>WA3604400</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
<tr>
<td>WA3624410</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
<tr>
<td>WA3625410</td>
<td>¾</td>
<td>¾-18</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
</tbody>
</table>

* 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.

### Plugs (Male) with External Thread

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Male)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA3633408L</td>
<td>¼</td>
<td>¼-19</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.41, grams 184</td>
</tr>
<tr>
<td>WA3633420L</td>
<td>¼</td>
<td>¼-19</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.33, grams 150</td>
</tr>
<tr>
<td>WA3633425L</td>
<td>¼</td>
<td>¼-19</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.39, grams 166</td>
</tr>
<tr>
<td>WA3633430L</td>
<td>¼</td>
<td>¼-19</td>
<td>H (in) 1.26, I = 0.94, J = 1.14, K = 0.87</td>
<td>lbs 0.35, grams 198</td>
</tr>
</tbody>
</table>

* 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**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>Anodized Aluminium</td>
<td>PVC</td>
</tr>
<tr>
<td>¼</td>
<td>WD3611700</td>
<td>WP3611700</td>
</tr>
<tr>
<td>⅜</td>
<td>WD3612700</td>
<td>WP3612700</td>
</tr>
<tr>
<td>½</td>
<td>WD3613700</td>
<td>WP3613700</td>
</tr>
<tr>
<td>¾</td>
<td>WD3614700</td>
<td>WP3614700</td>
</tr>
<tr>
<td>1</td>
<td>WD3615700</td>
<td>WP3615700</td>
</tr>
<tr>
<td>1¼</td>
<td>WD3616700</td>
<td>WP3616700</td>
</tr>
</tbody>
</table>

For installation instructions, please contact your Eaton sales representative

---

**Seal Kit for Servicing Sockets (Female)**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Seal &amp; Back-up Ring Kit* Part Number</th>
<th>NBR seals &amp; PTFE back-up rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>¼</td>
<td>WG3600700</td>
<td>10 seals + 10 back-up rings</td>
</tr>
<tr>
<td>⅜</td>
<td>WG3602700</td>
<td>10 seals + 10 back-up rings</td>
</tr>
<tr>
<td>½</td>
<td>WG3603700</td>
<td>10 seals + 10 back-up rings</td>
</tr>
<tr>
<td>¾</td>
<td>WG3604700</td>
<td>5 seals + 5 back-up rings</td>
</tr>
<tr>
<td>1</td>
<td>WG3605700</td>
<td>5 seals + 5 back-up rings</td>
</tr>
<tr>
<td>1¼</td>
<td>WG3606700</td>
<td>1 seal + 1 back-up ring</td>
</tr>
</tbody>
</table>

* The valve seal is not included in our repair kits
Eaton’s high pressure hydraulic coupling GA90090 was engineered to perform in applications that require the highest level of performance. Working pressure of up to 420 bar (6,000 psi) in all sizes. One of the most demanding applications is the drill hammer used in construction.

**Product Features**
- Maximum working pressure up to 420 bar [6,000 psi] in all sizes
- Available in size -8, -10, and -12
- Available thread configurations: Metric, UN, and BSP
- Self-sealing features guarantee minimum air inclusion and loss of fluid
- Connection via adapter
- Detachable under pressure
- Long lifetime in dynamic applications
- Works in applications that have extremely high pressure ratings (up to 420 bar)
- Exceeds the requirements of ISC7241/1
- Standard model available in zinc plated steel

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

---

**Metric Thread**

<table>
<thead>
<tr>
<th>Size</th>
<th>DN</th>
<th>Coupling Thread</th>
<th>A</th>
<th>B</th>
<th>Hex 1</th>
<th>Hex 2</th>
<th>Hex 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>-8</td>
<td>12</td>
<td>GA90090-8</td>
<td>89.1</td>
<td>105</td>
<td>27</td>
<td>41</td>
<td>27</td>
</tr>
<tr>
<td>-12</td>
<td>16</td>
<td>GA90090-12</td>
<td>143.6</td>
<td>183</td>
<td>36</td>
<td>65</td>
<td>46</td>
</tr>
<tr>
<td>-16</td>
<td>20</td>
<td>GA90090-16</td>
<td>163.7</td>
<td>196.7</td>
<td>50</td>
<td>75</td>
<td>55</td>
</tr>
</tbody>
</table>

**UNF-Thread**

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

<table>
<thead>
<tr>
<th>Size</th>
<th>DN</th>
<th>Coupling Thread</th>
<th>A</th>
<th>B</th>
<th>Hex 1</th>
<th>Hex 2</th>
<th>Hex 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>-8</td>
<td>12</td>
<td>GA90762-8</td>
<td>78.1</td>
<td>109</td>
<td>27</td>
<td>41</td>
<td>27</td>
</tr>
<tr>
<td>-12</td>
<td>16</td>
<td>GA90762-12</td>
<td>163.7</td>
<td>196.7</td>
<td>36</td>
<td>65</td>
<td>46</td>
</tr>
</tbody>
</table>

**BSP-Thread**

<table>
<thead>
<tr>
<th>Size</th>
<th>DN</th>
<th>Coupling Thread</th>
<th>A</th>
<th>B</th>
<th>Hex 1</th>
<th>Hex 2</th>
<th>Hex 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>-8</td>
<td>12</td>
<td>GA90767-8</td>
<td>99.1</td>
<td>115</td>
<td>27</td>
<td>41</td>
<td>27</td>
</tr>
<tr>
<td>-12</td>
<td>16</td>
<td>GA90767-12-16</td>
<td>158.8</td>
<td>188.7</td>
<td>36</td>
<td>65</td>
<td>46</td>
</tr>
<tr>
<td>-16</td>
<td>20</td>
<td>GA90767-16-20</td>
<td>163.7</td>
<td>196.7</td>
<td>50</td>
<td>75</td>
<td>55</td>
</tr>
</tbody>
</table>
Eaton’s W6000 Series steel quick disconnect coupling is a thread-to-connect with a rugged construction. It remains the series users refer to when it deals with severe hydraulic applications such as construction and mining. The design and materials used give this quick disconnect coupling resistance to heavy mechanical loads. Most common examples are ram loads, hydraulic shocks, and severe pulsating pressures.

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Flow Diameter (mm)</th>
<th>Nominal Flow Diameter &amp; Max. Operating Pressure*</th>
<th>Hazardous liquids &amp; gases in Group 2</th>
<th>Hazardous liquids &amp; gases in Group 1</th>
<th>Maximum Residual Pressure during Connection***</th>
<th>Rated Flow**</th>
<th>Fluid Loss (ml-cc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>5.7</td>
<td>1,100 15,950 100 15,950</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
<td>25.5 6.74 2.8</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
<tr>
<td>½</td>
<td>7.6</td>
<td>750 10,875 750 10,875</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
<td>25.5 6.74 2.8</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
<tr>
<td>¾</td>
<td>10.3</td>
<td>950 10,875 950 10,875</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
<td>25.5 6.74 2.8</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
<tr>
<td>1</td>
<td>14.2</td>
<td>650 9,425 650 9,425</td>
<td>50 725 14.5 3.8</td>
<td>2.8</td>
<td>12.5 3.42 2.5</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
<tr>
<td>1¼</td>
<td>20.5</td>
<td>450 6,525 450 6,525</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
<td>25.5 6.74 2.8</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
<tr>
<td>1½</td>
<td>25.8</td>
<td>450 6,525 450 6,525</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
<td>25.5 6.74 2.8</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
<tr>
<td>2</td>
<td>34.7</td>
<td>450 6,525 450 6,525</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
<td>25.5 6.74 2.8</td>
<td>30 435 16.7 4.41</td>
<td>1.9</td>
</tr>
</tbody>
</table>

* 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

**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

**Flow Data**

<table>
<thead>
<tr>
<th>Flow Rate (l/min)</th>
<th>Pressure Drop, psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.45</td>
</tr>
<tr>
<td>10</td>
<td>14.5</td>
</tr>
<tr>
<td>100</td>
<td>72.5</td>
</tr>
<tr>
<td>1000</td>
<td>110</td>
</tr>
</tbody>
</table>

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>-20°C to +100°C / -4°F to +212°F</td>
</tr>
<tr>
<td>FKM</td>
<td>-20°C to +200°C / -4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)</td>
<td>-40°C to +150°C / -40°F to +302°F</td>
</tr>
</tbody>
</table>

* For reference only, based on Eaton recommended temperatures. Contact Eaton technical support for further information on fluid compatibility.
### W6000 Series (Steel)

#### Thread-to-Connect

**Sockets (Female)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FKM</th>
<th>EPDM</th>
<th>Body Size (in)</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA0607000</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>¼</td>
<td>5.7</td>
<td>¼-19</td>
<td>2, 1.29</td>
<td>0.79</td>
</tr>
<tr>
<td>WA0607100</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>¼</td>
<td>5.7</td>
<td>¼-18</td>
<td>2, 1.29</td>
<td>0.79</td>
</tr>
<tr>
<td>WA0607200</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>¼</td>
<td>7.6</td>
<td>¼-19</td>
<td>2, 1.26</td>
<td>0.76</td>
</tr>
<tr>
<td>WA0607300</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>¼</td>
<td>7.6</td>
<td>¼-18</td>
<td>2, 1.26</td>
<td>0.76</td>
</tr>
<tr>
<td>WA0607400</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>½</td>
<td>10.3</td>
<td>½-19</td>
<td>2, 1.91</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0607500</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>½</td>
<td>10.3</td>
<td>½-18</td>
<td>2, 1.91</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0607600</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.26</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0607700</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.26</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0607800</td>
<td>WA0607V0</td>
<td>WA0607E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.26</td>
<td>1.14</td>
</tr>
</tbody>
</table>

* Alternative end connections available upon request.

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

---

**Plugs (Male)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FKM</th>
<th>EPDM</th>
<th>Body Size (in)</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA0604000</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>¼</td>
<td>5.7</td>
<td>¼-19</td>
<td>2</td>
<td>1.38</td>
</tr>
<tr>
<td>WA0604100</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>¼</td>
<td>5.7</td>
<td>¼-18</td>
<td>2</td>
<td>1.38</td>
</tr>
<tr>
<td>WA0604200</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>¼</td>
<td>7.6</td>
<td>¼-19</td>
<td>2</td>
<td>1.65</td>
</tr>
<tr>
<td>WA0604300</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>¼</td>
<td>7.6</td>
<td>¼-18</td>
<td>2</td>
<td>1.65</td>
</tr>
<tr>
<td>WA0604400</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>½</td>
<td>10.3</td>
<td>½-19</td>
<td>2</td>
<td>1.97</td>
</tr>
<tr>
<td>WA0604500</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>½</td>
<td>10.3</td>
<td>½-18</td>
<td>2</td>
<td>1.97</td>
</tr>
<tr>
<td>WA0604600</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.97</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0604700</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.97</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0604800</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.97</td>
<td>1.14</td>
</tr>
<tr>
<td>WA0604900</td>
<td>WA0604V0</td>
<td>WA0604E0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1.97</td>
<td>1.14</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>WD0611700</td>
<td>WD0611400</td>
</tr>
<tr>
<td>½</td>
<td>WD0612700</td>
<td>WD0612400</td>
</tr>
<tr>
<td>¾</td>
<td>WD0613700</td>
<td>WD0613400</td>
</tr>
<tr>
<td>1</td>
<td>WD0614700</td>
<td>WD0614400</td>
</tr>
<tr>
<td>1¼</td>
<td>WD0615700</td>
<td>WD0615400</td>
</tr>
<tr>
<td>1½</td>
<td>WD0616700</td>
<td>WD0616400</td>
</tr>
<tr>
<td>2</td>
<td>WD0617700</td>
<td>WD0617400</td>
</tr>
<tr>
<td>2½</td>
<td>WD0618700</td>
<td>WD0618400</td>
</tr>
</tbody>
</table>

Socket Dust Plug
Plug Dust Cap
Eaton's 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.

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure*</th>
<th>Maximum Residual Pressure during Connection***</th>
<th>Rated Flow**</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(bar)</td>
<td>(bar)</td>
<td>(lpm)</td>
<td>(gpm)</td>
</tr>
<tr>
<td>¼</td>
<td>5.7</td>
<td>1100</td>
<td>15,950</td>
<td>30</td>
<td>11.6</td>
</tr>
<tr>
<td>½</td>
<td>7.6</td>
<td>750</td>
<td>10,875</td>
<td>30</td>
<td>16.7</td>
</tr>
<tr>
<td>¾</td>
<td>10.3</td>
<td>750</td>
<td>10,875</td>
<td>30</td>
<td>25.5</td>
</tr>
<tr>
<td>1</td>
<td>14.2</td>
<td>650</td>
<td>9,425</td>
<td>50</td>
<td>72.5</td>
</tr>
<tr>
<td>1¼</td>
<td>18.5</td>
<td>450</td>
<td>6,525</td>
<td>650</td>
<td>140</td>
</tr>
<tr>
<td>1½</td>
<td>22.8</td>
<td>300</td>
<td>4,350</td>
<td>850</td>
<td>238</td>
</tr>
<tr>
<td>2</td>
<td>34.7</td>
<td>300</td>
<td>2,800</td>
<td>1000</td>
<td>357</td>
</tr>
</tbody>
</table>

* 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**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM</td>
<td>30°C to 200°C/+86°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)</td>
<td>-40°C to +150°C/-40°F to +302°F</td>
</tr>
</tbody>
</table>

* 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

#### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Nominal Body Size</th>
<th>Thread Size**</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in) (mm)</td>
<td>NPT</td>
<td>BSPP</td>
<td>Fig. A (in)</td>
</tr>
<tr>
<td>WV06017V0</td>
<td>¼</td>
<td>5.7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06017V0</td>
<td>½</td>
<td>7.6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06037V0</td>
<td>½</td>
<td>10.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06027V0</td>
<td>¾</td>
<td>7.6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06037V0</td>
<td>¾</td>
<td>10.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06047V0</td>
<td>1</td>
<td>16.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06057V0</td>
<td>1</td>
<td>16.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06067V0</td>
<td>1¼</td>
<td>20.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06077V0</td>
<td>1½</td>
<td>25.8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06097V0</td>
<td>2</td>
<td>34.7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* 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.

#### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Nominal Body Size</th>
<th>Thread Size**</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in) (mm)</td>
<td>NPT</td>
<td>BSPP</td>
<td>Fig. D (in)</td>
</tr>
<tr>
<td>WV06014V0</td>
<td>¼</td>
<td>5.7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06024V0</td>
<td>½</td>
<td>7.6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06034V0</td>
<td>¾</td>
<td>10.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06044V0</td>
<td>1</td>
<td>16.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06054V0</td>
<td>1½</td>
<td>25.8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WV06064V0</td>
<td>2</td>
<td>34.7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

** Alternative end connections available upon request.
W6000 Series (Stainless Steel)
Thread-to-Connect

### Dust Plugs and Dust Caps

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>½</td>
<td>WD0611700</td>
<td>WD0617400</td>
</tr>
<tr>
<td>¾</td>
<td>WD0612700</td>
<td>WD0612700</td>
</tr>
<tr>
<td>1</td>
<td>WD0613700</td>
<td>WD0613400</td>
</tr>
<tr>
<td>1¼</td>
<td>WD0614700</td>
<td>WD0614400</td>
</tr>
<tr>
<td>1½</td>
<td>WD0615700</td>
<td>WD0615400</td>
</tr>
<tr>
<td>2</td>
<td>WD0616700</td>
<td>WD0616400</td>
</tr>
<tr>
<td>1½</td>
<td>WD0617700</td>
<td>WD0617400</td>
</tr>
<tr>
<td>2</td>
<td>WD0619700</td>
<td>WD0619400</td>
</tr>
</tbody>
</table>
Eaton’s HP3 Series Hydraulic Jack/Enerpac Interchange is designed for high pressure applications up to 700 bar (10,000 psi).

**Product Features**
- Thread together design
- 700 bar (10,000 psi) operating pressure
- Ball valve
- Seal material: Buna-N

**Applications & Markets**
- Hydraulic jack
- Portable hydraulic rams

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure (Static)</th>
<th>Min. Burst Pressure</th>
<th>Rated Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>Connected (bar)</td>
<td>(psi)</td>
<td>Connected (bar)</td>
</tr>
<tr>
<td>3/8</td>
<td>700</td>
<td>10,000</td>
<td>1,850</td>
</tr>
</tbody>
</table>

*Connect and disconnect under pressure not allowed*

**Dimensions**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size (in)</th>
<th>Port Size (in)</th>
<th>Thread Size (in)</th>
<th>Type</th>
<th>Fig.</th>
<th>Dimensions A (mm) (in)</th>
<th>B (mm) (in)</th>
<th>Hex (mm) (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP3SB37M</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Male NPT</td>
<td>1</td>
<td>72.2 (2.84)</td>
<td>35.0 (1.38)</td>
<td>24 .94</td>
</tr>
<tr>
<td>HP3PB37F</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18</td>
<td>Female NPT</td>
<td>2</td>
<td>40.0 (1.57)</td>
<td>35.0 (1.38)</td>
<td>32 1.26</td>
</tr>
</tbody>
</table>

**Dust Caps and Dust Plugs**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Dust Cap</th>
<th>Dust Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>WA5612400</td>
<td>WA5612700</td>
</tr>
</tbody>
</table>
W56000 Series

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

Product Features
- Screw to connect double shut off with poppet valve
- Designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.
- Interchanges with other couplings with the same profile
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Buna-N

Flow Data

![Flow Data Graph]

<table>
<thead>
<tr>
<th>Pressure Drop, psi</th>
<th>Flow Rate, gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Hydraulic Oil at 100°F)</td>
<td></td>
</tr>
</tbody>
</table>

Physical Characteristics

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Min. Burst Pressure</th>
<th>Rated Flow</th>
<th>Air Inclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>(lpm)</td>
<td>(ml max)</td>
</tr>
<tr>
<td>1/4</td>
<td>5.7</td>
<td>700</td>
<td>10,000</td>
<td>11</td>
<td>1.1</td>
</tr>
<tr>
<td>3/8</td>
<td>76</td>
<td>700</td>
<td>10,000</td>
<td>16</td>
<td>1.9</td>
</tr>
</tbody>
</table>

Applications & Markets
- Hydraulic jacks, Lifts and Emergency Rescue Equipment

Dust Caps and Dust Plugs

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Dust Cap</th>
<th>Dust Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>WA5611400</td>
<td>WA5611700</td>
</tr>
<tr>
<td>3/8</td>
<td>WA5612400</td>
<td>WA5612700</td>
</tr>
</tbody>
</table>
FD35 Series
10,000 psi Ball Latch

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

Product Features
- Safety sleeve lock prevents accidental disconnection
- Heavy duty back-up ring prevents O-Ring extrusion
- Heat treated and plated steel for greater wear and corrosion resistance
- Self-sealing poppet valves provide excellent high and low pressure sealing
- Standard seal material: FKM
- Standard body material: High resistance carbon steel with zinc trivalent plating

Physical Characteristics

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>700</td>
<td>10,000</td>
<td>2,800</td>
<td>40,000</td>
<td>8</td>
<td>2</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Applications & Markets
- 10,000 psi hydraulic applications
- Hydraulic tool
- Hydraulic ram and work loading

Flow Data

Flow Drop Versus Flow Graph

Gallons Per Minute Flow
Test Fluid: MIL-H-5606 Oil at 100°F
FD35 Series
10,000 psi

Figure 1

Figure 2

Figure 3

Dimensions (Female NPT, Valved)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A (mm)</th>
<th>B (mm)</th>
<th>Hex (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD35-1002-06-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>1</td>
<td>53.8 (2.12)</td>
<td>-</td>
<td>23.9 (.94)</td>
</tr>
<tr>
<td>FD35-1001-06-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>2</td>
<td>65.0 (2.56)</td>
<td>32.3 (1.27)</td>
<td>23.9 (.94)</td>
</tr>
<tr>
<td>FD35-1000-06-06</td>
<td>Complete</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>3</td>
<td>89.9 (3.54)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Dimensions (Female SAE O-Ring, Valved)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A (mm)</th>
<th>B (mm)</th>
<th>Hex (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD35-1008-06-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16-18 Female SAE O-Ring</td>
<td>1</td>
<td>53.8 (2.12)</td>
<td>-</td>
<td>23.9 (.94)</td>
</tr>
<tr>
<td>FD35-1007-06-06</td>
<td>Socket/Female</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16-18 Female SAE O-Ring</td>
<td>2</td>
<td>65.0 (2.56)</td>
<td>32.3 (1.27)</td>
<td>23.9 (.94)</td>
</tr>
<tr>
<td>FD35-1006-06-06</td>
<td>Complete</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16-18 Female SAE O-Ring</td>
<td>3</td>
<td>89.9 (3.54)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A (mm)</th>
<th>Hex (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD35-1052-06-06</td>
<td>Plug/Male</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16-18 Female SAE O-Ring</td>
<td>1</td>
<td>53.8 (2.12)</td>
<td>23.9 (.94)</td>
</tr>
</tbody>
</table>

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

Dust Cap/Plug

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD35-1042-06</td>
<td>3/8</td>
</tr>
</tbody>
</table>

Note: Fits male and female halves
2UH Series

Eaton's 2UH Series quick disconnect coupling is a ball latch coupling used in high pressure hydraulic applications exceeding 20,000 psi or 1,500 bar.

Product Features
- Pull-to-connect high pressure coupling
- Standard body material: High tensile steel with anticorrosion finish, hardened steel sleeve
- Standard seal material: NBR
- Blue PVC Dust caps and plugs

Physical Characteristics

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow</th>
<th>Spillage</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>(lpm)</td>
<td>(gpm)</td>
</tr>
<tr>
<td>1/4</td>
<td>2.5</td>
<td>1,500</td>
<td>3</td>
<td>0.79</td>
</tr>
</tbody>
</table>

Applications & Markets
- High pressure hydraulic equipment: Lifts, jacks, shears, pullers

Flow Data

Flow rate (gpm)

Pressure drop (bar)

Flow rate (l/min)

Physical Characteristics

<table>
<thead>
<tr>
<th>Size</th>
<th>DN/ND</th>
<th>Socket/Female and Dust Plug</th>
<th>Socket/Female Dust Plug Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig. A</th>
<th>B</th>
<th>C</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>2.5</td>
<td>2UHS25BS</td>
<td>PSDC2UH</td>
<td>Socket/Female</td>
<td>G 1/4</td>
<td>1</td>
<td>60</td>
<td>12</td>
<td>27</td>
</tr>
</tbody>
</table>

Size DN/ND

<table>
<thead>
<tr>
<th>Size</th>
<th>DN/ND</th>
<th>Socket/Female and Dust Plug</th>
<th>Socket/Female Dust Plug Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig. D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>2.5</td>
<td>2UHP25BS</td>
<td>PPDC2UH</td>
<td>Plug/Male</td>
<td>G 1/4</td>
<td>2</td>
<td>38</td>
<td>12</td>
<td>15.6</td>
<td>19.6</td>
</tr>
</tbody>
</table>
Safeline Series Operation Guidelines

Synoptique de fonctionnement
Operation

ELIMINATION OF HOSE-WHIP with two distinct movements:

1. Button pressed
   - Dissipation of downstream pressure: the plug is retained in the socket

2. Plug pushed into the socket
   - Disconnection

Recommendation applicable to all profiles

Use with vibrating tools:
A flexible hose at least 300 mm long between the tool and the quick coupling is recommended.
Eaton’s Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

**Product Features**

- Safe and easy to connect and disconnect
- Light weight, compact ergonomic design
- Accepts 1/4” ISO 6150 Series B and A-A-59439 plugs/males
- Accepts all US industrial plugs/males
- Standard body material: Aluminum
- Standard seal material: Buna-N

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size (mm)</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure Connected or Disconnected (bar/psi)</th>
<th>Air Flow Rate* (\Delta p 0.6) bar/8.7 psi** (\Delta p 1) bar/14.5 psi*** (lpm/gpm)</th>
<th>Working Temperature °C/°F</th>
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<td>16/232</td>
<td>525/139 660/174</td>
<td>-20/4 -4/212</td>
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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
** This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**

- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

**Flow Data**

Air flow-rate at 6 bar (87 psi)

![Flow Data Graph](image-url)
Safeline Series
ISO 6150 B GD10500 Safety-Type Quick-Release

HEX1
Figure 1
HEX1
Figure 2
HEX1
Figure 3

Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam.</th>
<th>Type</th>
<th>Dimensions (in)</th>
<th>Hex1 (in)</th>
<th>Hex2 (in)</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
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<th>Weight (g)</th>
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<td>157</td>
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GD1055677   | --        | 6 mm      | Reusable Hose Fit. | 3    | 2.59 1.02 1.10 0.67 | 65.8      | 26.0      | 28.0   | 17     | 0.23   | 106         | 50         |
| GD1055678   | --        | 7 mm      | Reusable Hose Fit. | 3    | 2.57 1.02 1.10 0.67 | 65.8      | 26.0      | 28.0   | 17     | 0.24   | 107         | 50         |
| GD1055689   | --        | 8 mm      | Reusable Hose Fit. | 3    | 2.33 1.02 1.10 0.67 | 65.8      | 26.0      | 28.0   | 17     | 0.24   | 107         | 50         |
| GD1055690   | --        | 9 mm      | Reusable Hose Fit. | 3    | 2.33 1.02 1.10 0.67 | 65.8      | 26.0      | 28.0   | 17     | 0.24   | 108         | 50         |
| GD1055601   | --        | 10 mm     | Reusable Hose Fit. | 3    | 2.33 1.02 1.10 0.67 | 65.8      | 26.0      | 28.0   | 17     | 0.25   | 112         | 50         |

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6, 7, 8) together and subtract 23 mm (0.91 in).

*Alternative end connections available upon request.
### Safeline Series

**ISO 6150 B GD10500 Safety-Type Quick-Release**

#### Plugs (Male)

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<th>Type</th>
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<th>Weight</th>
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<td>M14x125 Female Metric</td>
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<td>0.06 29</td>
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<td>1/4-19 Female BSPP</td>
<td></td>
<td>1.732 0.669 44 17</td>
<td>0.06 29</td>
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<tr>
<td>GA0066245</td>
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<td>1/4-18 Female NPT</td>
<td></td>
<td>1.634 0.709 41.5 18</td>
<td>0.07 30</td>
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<td>3/8-19 Female BSPP</td>
<td></td>
<td>1.732 0.827 44 21</td>
<td>0.08 37</td>
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<td>M14</td>
<td>M14x125 Female Metric</td>
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<td>1.732 0.669 44 17</td>
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<td>1/4-19 Female BSPP</td>
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<tr>
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<td>0.06 26</td>
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</tr>
</tbody>
</table>

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6, 7, 8) together and subtract 23 mm (0,91 in).

*Alternative end connections available upon request.*
Eaton Gromelle™ ID10900 Series is a single shut-off compressed air coupling that interchanges with ISO 6150 C Standards requirements. Nominal diameter is 8 mm. Thanks to a distinct two-movement action, our couplings guarantee operator safety at disconnection by eliminating the “whiplash” effect. It is a must-have for safe air applications.

**Product Features**

- One-hand push-to-connect
- Automatic button for disconnection
- Meets safety standard ISO 4414
- Single shut-off valving
- Good flow capacity
- Wide selection of end connections
- Standard seal material: NBR (Nitrile)
- Standard body material (Female): Aluminum
- Standard body material (Male): Zinc plated steel

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure Connected or Disconnected</th>
<th>Air Flow Rate*</th>
<th>Δp 0.6 bar/8.7 psi**</th>
<th>Δp 1 bar/14.5 psi***</th>
<th>Working Temperature</th>
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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**

- General Pneumatics
- Air Tools

**Flow Data**

Air Flow-rate at 6 bar (87psi)
### Safeline Series
**ISO 6150 B ID10900 Safety-Type Quick-Release**

#### Sockets (Female)

<table>
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<tr>
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<th>Port Size</th>
<th>Thread or Hose Diam.</th>
<th>Type</th>
<th>Fig.</th>
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To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25.6 mm (1 in.).

*Alternative end connections available upon request.*

#### Plugs (Male)

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<th>Fig.</th>
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To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25.6 mm (1 in.).

*Alternative end connections available upon request.*
Eaton’s Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

**Product Features**
- Safe and easy to connect and disconnect
- Light weight, compact ergonomic design
- Meets Safety Standard ISO 4414
- Meets ISO 6150 Series C Standard
- Standard body material: Dural
- Standard seal material: Buna-N

**Physical Characteristics**

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<th>Body Size</th>
<th>Nominal Flow Diameter (mm)</th>
<th>Max. Operating Pressure Connected or Disconnected (bar/psi)</th>
<th>Air Flow Rate* (lpm/gpm)</th>
<th>Δp 0.6 bar/8.7 psi** (lpm/gpm)</th>
<th>Δp 1 bar/14.5 psi*** (lpm/gpm)</th>
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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**
- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

**Flow Data**

Air flow-rate at 6 bar (87 psi)
### Sockets (Female)

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<th>Type</th>
<th>Fig.</th>
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To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and substract 26 mm (1.02 in).

*Max bulkhead thickness: 10 mm (0.39 in) / Bulkhead hole diameter = 21 mm (0.83 in).
**Max bulkhead thickness: 12 mm (0.47 in) / Bulkhead hole diameter = 25 mm (0.98 in)

### Plugs (Male)

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<th>Type</th>
<th>Fig.</th>
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Safeline Series
ISO 6150 CID18900/IK18900

Eaton’s Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

Product Features
- Safe and easy to connect and disconnect
- Light weight, compact ergonomic design
- Meets Safety Standard ISO 4414
- Meets ISO 6150 Series C Standard
- Standard body material: Dural
- Standard seal material: Buna-N

Physical Characteristics

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<th>Working Temperature</th>
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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Markets
- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

Flow Data

Air flow-rate at 6 bar (87 psi)
**Safeline Series**

ISO 6150 C ID18900/IK18900

**Sockets (Female)**

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*Max bulkhead thickness: 12 mm (0.47 in) / Bulkhead hole diameter = 25 mm (0.98 in)

**Max bulkhead thickness: 15 mm (0.59 in) / Bulkhead hole diameter ≤ 31 mm (1.22 in)

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 40 mm (1.57 in).

**Plugs (Male)**

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To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 40 mm (1.57 in).
Eaton’s Safeline Series is an Industrial Interchange pneumatic coupling with push button safety feature designed for use with compressed air. Two-step disconnect procedure shuts off air supply and releases downstream air pressure before plug can be removed from socket/female, which prevents hose whip.

**Product Features**
- Safe and easy to connect and disconnect
- Light weight, compact ergonomic design
- Meets Safety Standard ISO 4414
- Meets ISO 6150 Series C Standard
- Standard body material: Dural
- Standard seal material: Buna-N

**Physical Characteristics**

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<tr>
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<th></th>
<th></th>
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<td>-20° -4° -4° +100° +212°</td>
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</table>

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
** This flow rate allows the optimum output from a pneumatic tool.
*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**
- General Pneumatics
- Air Tools
- Industrial Plants
- Maintenance and Repair

**Flow Data**

Air flow-rate at 6 bar (87 psi)
## Safeline Series

ISO 6150  CTD18300/TK18300

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam.</th>
<th>Type</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex1</th>
<th>Hex2</th>
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</table>

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 20 mm (0.79 in).

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
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<th>Port Size</th>
<th>Thread or Hose Diam.</th>
<th>Type</th>
<th>Fig.</th>
<th>Dimensions</th>
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<th>Hex2</th>
<th>Weight</th>
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<td>33</td>
<td>20 2.40</td>
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</table>

To obtain connected length of coupling add Dimensions A or A+C (Fig. 1, 2, 3, 4) and D or D+E (Fig. 5, 6, 7) together and subtract 20 mm (0.79 in).
Eaton’s CC Series provides unrestricted air flow, safety, efficiency, and extreme durability all in one pneumatic coupling.

### Product Features
- Two sleeve activation for safety
- Safe choice for employees due to safety venting that prevents hose whip
- External polymer construction prevents scratches on finished surfaces
- Accepts multiple plug/male configurations, making it extremely flexible
- Standard body material: Nickel plated brass internal body with polymer outer sleeves

### Physical Characteristics
<table>
<thead>
<tr>
<th>Series</th>
<th>Body Size</th>
<th>Max. Operating Pressure</th>
<th>Min. Burst Pressure</th>
<th>Rated Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>(bar)</td>
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### Applications & Markets
- General Pneumatics
- Air Tools

### Interchangeability

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### Flow Data

**PRESSURE DROP VS. AIR FLOW**

(100 psig inlet pressure)

**Pressure Drop, psi**

**Air Flow, scfm**

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<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Type</th>
<th>Fig.</th>
<th>Dimensions</th>
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<th>A</th>
<th>B</th>
<th>Hex</th>
<th>A</th>
<th>B</th>
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<td>2.64 1.188 0.75</td>
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</tbody>
</table>
1000 Series

Eaton’s 1000 Series is an Industrial Interchange pneumatic coupling that is rugged and reliable designed for use with compressed air, gases, and liquids.

Product Features
- Ball latching mechanism
- Optional sleeve lock prevents accidental disconnection
- All sizes accept US Industrial Interchange
- 1/4" accepts ISO 6150 B and A-A-59439 plugs/males
- Standard body material: Brass with nickel plated steel sleeve
- Standard seal material: Buna-N

Physical Characteristics

<table>
<thead>
<tr>
<th>Series</th>
<th>Body Size</th>
<th>Max. Operating Pressure</th>
<th>Min. Burst Pressure</th>
<th>Rated Flow</th>
</tr>
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<td></td>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
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Applications & Markets
- General Pneumatics
- Construction
- Industrial Plants

Flow Data

Flow Data

Pressure Drop, psi

Air Flow, scfm
(100 psig Inlet Pressure)
# 1000 Series

![Figure 1](image1.png)  
![Figure 2](image2.png)

## Male NPTF Connections

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Material</th>
<th>Fig.</th>
<th>Dimensions (in)</th>
<th>Hex (in)</th>
<th>A (in)</th>
<th>B (in)</th>
<th>C (in)</th>
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<th>Fig.</th>
<th>Dimensions (in)</th>
<th>Hex (in)</th>
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<th>B (in)</th>
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<td>52.83</td>
<td>25.40</td>
<td>17.53</td>
<td></td>
</tr>
</tbody>
</table>

## Dimensions

- **A**: Hexagon (in)  
- **B**: Hexagon (mm)  
- **Hex**: Hexagon (mm)  
- **Material** Options:  
  - Brass  
  - Stainless  
  - Steel  
  - Nickel plated

---

§ With Ball Check  
† With Bleeder Ball Check—Reduces Hose Whip  
* Nickel plated

---

Eaton Quick Disconnect Couplings  
EMEA  
E-MEQD-CC001-N  
July 2014  
Eaton Quick Disconnect Couplings  
EMEA  
E-MEQD-CC001-N  
July 2014  
87
### Hose Stem End Connections

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<th>Hose I.D.</th>
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†With Bleeder Ball Check—Reduces Hose Whip  ‡ For use with push-on style hose  *Nickel plated
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Eaton Gromelle™ G600 Series is a single shut-off compressed air coupling that incherchanges with ISO 6150 B and US A-A-59439 Standards requirements. Nominal diameter is 5.5 mm. Its new revamped design and the materials used make it a rugged and long-lasting coupling, offered in a wide selection of end connections. It is used in general pneumatic applications.

**Product Features**
- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Shock resistant ergonomic sleeve
- Standard body material (Socket): Nickel plated brass
- Standard body material (Plug): Zinc trivalent-plated steel
- Standard seal material: NBR

**Physical Characteristics**

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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.

**This flow rate allows the optimum output from a pneumatic tool.

*** This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**
- Compressed Air
- Pneumatic Tools

**Flow Data**

Air flow-rate at 6 bar (87 psi)

*Flow rate (l/min)*

*Pressure drop (bar)*

*Pressure drop (PSI)*
G600 Series
ISO 6150 B Interchange

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<td>Hose Tail</td>
<td></td>
<td>1.87 1.11 1.10 0.67</td>
<td>47.5</td>
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</table>

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3, 4, 5) and D or D+E (Fig. 6, 7, 8, 9, 10) together and subtract 20 mm (0.79 in.).

*Alternative end connections available upon request.

**Max bulkhead thickness: 10 mm (0.39 in.) / Bulkhead hole diameter: 21 mm (0.83 in.)
## G600 Series

**ISO 6150 B Interchange**

### Plug (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam.</th>
<th>Type</th>
<th>Dimensions</th>
<th>Hex1</th>
<th>Hex2</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<th>Hex2</th>
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<td>0.67</td>
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<td>0.55</td>
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<td>-</td>
<td>14</td>
<td>0.05</td>
<td>24</td>
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<td>8</td>
<td>1.10</td>
<td>1.02</td>
<td>0.55</td>
<td>28</td>
<td>26</td>
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<td>0.04</td>
<td>19</td>
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<td>1.02</td>
<td>0.55</td>
<td>28</td>
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<td>8 mm</td>
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<td>1.10</td>
<td>1.02</td>
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<td>1.02</td>
<td>0.55</td>
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<td>26</td>
<td>14</td>
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<td>1.10</td>
<td>1.02</td>
<td>0.55</td>
<td>28</td>
<td>26</td>
<td>14</td>
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<td>22</td>
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<td>0.75</td>
<td>56</td>
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<td>Reusable Hose Fit.</td>
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<td>-</td>
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<td>0.75</td>
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<td>-</td>
<td>0.63</td>
<td>0.75</td>
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<td>-</td>
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<td>0.75</td>
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<td>-</td>
<td>0.67</td>
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<td>M14x1.25</td>
<td>Female Swivel</td>
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<td>-</td>
<td>0.67</td>
<td>38</td>
<td>-</td>
<td>17</td>
<td>0.06</td>
<td>26</td>
<td></td>
</tr>
</tbody>
</table>

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3, 4, 5) and D or D+E (Fig. 6, 7, 8, 9, 10) together and subtract 20 mm (0.79 in.).

*Alternative end connections available upon request.*
Eaton Gromelle™ G700 Series is a single shut-off compressed air coupling with a European profile. Nominal diameter is 7.2/7.4 mm. This coupling offers an excellent flow capacity and is used in compressed air applications.

**Product Features**

- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Easy to connect
- Shock resistant ergonomic sleeve
- Standard body material (Socket): Nickel plated brass
- Standard body material (Plug): Zinc trivalent-plated steel
- Standard seal material: NBR

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter (mm)</th>
<th>Max. Operating Pressure (bar)</th>
<th>Air Flow Rate* (lpm)</th>
<th>Δp 0.6 bar/8.7 psi** (gpm)</th>
<th>Δp 1 bar/14.5 psi*** (gpm)</th>
<th>Working Temperature °C °F</th>
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<td>1/4</td>
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<td>410</td>
<td>1,960</td>
<td>520 -20° +100° -4° +212°</td>
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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**

- Compressed Air
- Pneumatic Tools

**Flow Data**

Air flow-rate at 6 bar (87 psi)
### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam.*</th>
<th>Type</th>
<th>Dimensions (in)</th>
<th>Fig.</th>
<th>Weight (lbs)</th>
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<td>GL0073614</td>
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<td>1/4-19</td>
<td>Male BSPT</td>
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<td>1.93 1.14 0.51 1</td>
<td>49  29 13 17</td>
<td>0.22 101</td>
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<tr>
<td>GL0073638</td>
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<td>3/8-19</td>
<td>Male BSPT</td>
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<td>0.24 110</td>
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<td>Female BSPP</td>
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<td>2.30 1.14 0.7</td>
<td>58.5 29 - 17</td>
<td>0.22 102</td>
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<td>3/8-19</td>
<td>Female BSPP</td>
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<td>0.22 100</td>
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<tr>
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<td>3</td>
<td>1.87 1.14 1.10</td>
<td>475 29 28 -</td>
<td>0.22 98</td>
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<tr>
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<td>0.22 100</td>
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<td>0.22 100</td>
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<td>Hose Tail</td>
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<td>475 29 33 -</td>
<td>0.22 100</td>
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</table>

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 19 mm (0.75 in.).

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam.*</th>
<th>Type</th>
<th>Dimensions (in)</th>
<th>Fig.</th>
<th>Weight (lbs)</th>
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<td>0.06 27</td>
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</table>

*Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 19 mm (0.75 in.).
**I900 Series**

**ISO 6150 B Interchange**

Eaton Gromelle™ I900 Series is a single shut-off compressed air coupling that interchanges with ISO 6150 B and US A-A-59439 Standards requirements. Nominal diameter is 8 mm.

**Product Features**
- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel plated brass
- Standard body material (Plug): Zinc trivalent plated steel
- Standard seal material: NBR

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure</th>
<th>Air Flow Rate*</th>
<th>Delta P 0.6 bar/8.7 psi**</th>
<th>Delta P 1 bar/14.5 psi***</th>
<th>Working Temperature</th>
</tr>
</thead>
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<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(bar)</td>
<td>(lpm)</td>
<td>(gpm)</td>
<td>(lpm)</td>
<td>°C</td>
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<td>20</td>
<td>2,200</td>
<td>580</td>
<td>2,700</td>
<td>710</td>
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</tbody>
</table>

*Indicated values refer to an inlet pressure of 6 bar/87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**
- Compressed Air
- Pneumatic Tools

**Flow Data**

Air flow-rate at 6 bar (87 psi)

---

**Flow rate (l/min)**

**Pressure drop (PSI)**

**Pressure drop (bar)**

**Flow rate (gpm)**
## Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam.*</th>
<th>Type</th>
<th>Dimensions A</th>
<th>B</th>
<th>C</th>
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<th>B</th>
<th>C</th>
<th>Hex1</th>
<th>Weight</th>
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<td>0.67</td>
<td>55</td>
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To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25.4 mm (1 in.).

*Alternative end connections available upon request.

## Plugs (Male)

<table>
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<th>Port Size</th>
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<td>0.63</td>
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</table>

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 25.4 mm (1 in.).

*Alternative end connections available upon request.
I1000 Series
European Profile

Eaton Gromelle™ I1000 Series is a single shut-off compressed air coupling with a European profile. This coupling offers excellent flow capacity and is used in many compressed air applications.

Product Features
- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel plated brass
- Standard body material (Plug): Zinc trivalent plated steel
- Standard seal material: NBR

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure</th>
<th>Air Flow Rate*</th>
<th>Δp 0.6 bar/8.7 psi**</th>
<th>Δp 1 bar/14.5 psi***</th>
<th>Working Temperature</th>
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<td>(mm)</td>
<td>(bar)</td>
<td>(lpm)</td>
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*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Markets
- Compressed Air
- Pneumatic Tools

Flow Data

Air flow-rate at 6 bar (87 psi)
## I1000 Series
### European Profile

**Sockets (Female)**

| Part Number | Body Size | Port Size | Thread or Hose Diam.a | Type       | Dimensions | A      | B      | C      | Hex1 | A | B | C | Hex1 | Weight |
|------------|-----------|-----------|-----------------------|------------|------------|--------|--------|--------|------|--------|--------|--------|--------|-------|--------|--------|--------|-------|
|            |           |           |                       |            | (in)       | (in)   | (in)   | (in)   | (mm) | (mm) | (mm) | (mm) | lbs | g  |
| IL0106014  | 1/4       | 1/4-19    | Male BSPT             | 1          | 2.16       | 1.09   | 0.51   | 0.87   | 53   | 27.7 | 13  | 22  | 0.29 | 130   |
| IL0106038  | 3/8       | 3/8-19    | Male BSPT             | 1          | 2.16       | 1.09   | 0.59   | 0.87   | 53   | 27.7 | 15  | 22  | 0.30 | 134   |
| IL0106012  | 1/2       | 1/2-14    | Male BSPT             | 1          | 2.16       | 1.09   | 0.67   | 0.87   | 53   | 27.7 | 17  | 22  | 0.32 | 147   |
| IL0107014  | 1/4       | 1/4-19    | Female BSPP           | 2          | 2.64       | 1.09   | -      | 0.87   | 65   | 27.7 | -   | 22  | 0.33 | 148   |
| IL0107038  | 3/8       | 3/8-19    | Female BSPP           | 2          | 2.76       | 1.09   | -      | 0.87   | 68   | 27.7 | -   | 22  | 0.32 | 145   |
| IL0107012  | 1/2       | 1/2-14    | Female BSPP           | 2          | 2.87       | 1.09   | -      | 1.06   | 71   | 27.7 | -   | 27  | 0.40 | 182   |
| IL0105689  | -         | 8 mm      | Hose Tail             | 3          | 2.20       | 1.09   | 1.10   | 0.87   | 54   | 27.7 | 28  | 22  | 0.29 | 130   |
| IL0105690  | -         | 9 mm      | Hose Tail             | 3          | 2.20       | 1.09   | 1.10   | 0.87   | 54   | 27.7 | 28  | 22  | 0.29 | 133   |
| IL0105601  | -         | 10 mm     | Hose Tail             | 3          | 2.20       | 1.09   | 1.10   | 0.87   | 54   | 27.7 | 28  | 22  | 0.30 | 134   |

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 19.8 mm (0.78 in.)

*Alternative end connections available upon request.

### Plugs (Male)

<table>
<thead>
<tr>
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<th>Port Size</th>
<th>Thread or Hose Diameter.a</th>
<th>Type</th>
<th>Dimensions</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Hex1</th>
<th>D</th>
<th>E</th>
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<th>Hex1</th>
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<td>(in)</td>
<td>(in)</td>
<td>(in)</td>
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<td>(mm)</td>
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To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 19.8 mm (0.78 in.)

*Alternative end connections available upon request.*
Eaton Gromelle™ T1100 Series is a single shut-off compressed air coupling that interchanges with ISO 6150 B and US A-A-59439 Standards requirements. This coupling offers excellent flow capacity and is used in many compressed air applications.

**Product Features**
- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel plated brass
- Standard body material (Plug): Zinc trivalent plated steel
- Standard seal material: NBR

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter (in)</th>
<th>Max. Operating Pressure (bar)</th>
<th>Air Flow Rate* (lpm)</th>
<th>Δp 0.6 bar/8.7 psi** (gpm)</th>
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*Indicated values refer to an inlet pressure of 6 bar/87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

**Applications & Markets**
- Compressed Air
- Pneumatic Tools

**Flow Data**

![Flow Data Graph](Image)

Air flow-rate at 6 bar (87 psi)
## T1100 Series
### ISO 6150 B Interchange

### Sockets (Female)

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<th>Thread or Hose Diam.*</th>
<th>Type</th>
<th>Dimensions Fig. A</th>
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<th>C</th>
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To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 34 mm (1.34 in.).

*Alternative end connections available upon request.*

### Plugs (Male)

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<th>Body Size</th>
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<tbody>
<tr>
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<td>3/8</td>
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<td>Male BSPT</td>
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<td>TA0111813</td>
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<td>13 mm</td>
<td>Hose Tail</td>
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<td>1.54</td>
<td>1.02</td>
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<td>26</td>
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<td>Hose Tail</td>
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<td>1.54</td>
<td>1.02</td>
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<td>26</td>
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</table>

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 34 mm (1.34 in.).

*Alternative end connections available upon request.*
T1300 Series
Proprietary Profile

Eaton Gromelle™ T1300 Series is a proprietary profile single shut-off compressed air coupling. This coupling offers excellent flow capacity and is used in high flow compressed air applications.

Product Features
- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel plated brass
- Standard body material (Plug): Zinc trivalent plated steel
- Standard seal material: NBR

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure</th>
<th>Air Flow Rate*</th>
<th>Δp 0.6 bar/8.7 psi**</th>
<th>Δp 1 bar/14.5 psi***</th>
<th>Working Temperature</th>
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<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(bar)</td>
<td>(lpm)</td>
<td>(gpm)</td>
<td>(lpm)</td>
<td>°C</td>
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<td>3,800</td>
<td>1,000</td>
<td>4,600</td>
<td>1,210</td>
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</table>

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.
**This flow rate allows the optimum output from a pneumatic tool.
***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Markets
- Compressed Air
- Pneumatic Tools

Flow Data

Air flow-rate at 6 bar (87 psi)
# T1300 Series

## Proprietary Profile

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam. Type</th>
<th>Dimensions</th>
<th>Fig.</th>
<th>Hex1 A</th>
<th>Hex1 B</th>
<th>Hex1 C</th>
<th>Weight</th>
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<td>1.30</td>
<td>1.06</td>
<td>71.2</td>
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</tbody>
</table>

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 32.5 mm (1.28 in.)

*Alternative end connections available upon request.

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread or Hose Diam. Type</th>
<th>Dimensions</th>
<th>Fig.</th>
<th>Hex1 D</th>
<th>Hex1 E</th>
<th>Hex1 F</th>
<th>Weight</th>
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<td>1/2-14</td>
<td>Male BSPT</td>
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<td>1.83</td>
<td>0.67</td>
<td>0.87</td>
<td>4.65</td>
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</tr>
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<td>3/8-19</td>
<td>Female BSPP</td>
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<td>2.17</td>
<td>-</td>
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<td>55</td>
<td>-</td>
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<td>1/2-14</td>
<td>Female BSPP</td>
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<td>Hose Tail</td>
<td>6</td>
<td>1.52</td>
<td>1.22</td>
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<td>38.5</td>
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<tr>
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<td>1.65</td>
<td>1.06</td>
<td>38.5</td>
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</table>

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 32.5 mm (1.28 in.)

*Alternative end connections available upon request.
Blow-Guns

Eaton offers two styles of Blow-Guns to fit your application needs.

Product Features

100 Series
- Progressive flow-control
- The airscreen version protects the operator against particle blow-back
- Body material: Nickel plated brass
- Seals: NBR

200 Series
- Pressure reduces to 2 bar (30 PSI) if the nozzle is obstructed by an obstacle
- Complies with OSHA STD 01-13-2001 standard
- When in use, the gun is designed to produce low noise levels with the comfort of the operator in mind. Complies with Directive 2003/10/EC and OSHA 1910.95(b) standard
- The <<SOFT TOUCH>> trigger and ergonomic design make it easy to grip and handle, even with work gloves. The graduated-opening system enables the operator to adjust the flow rate to his/her requirements.
- Body material: Nylon
- Nozzle: Stainless steel
- Seals: NBR

Physical Characteristics

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Connection</th>
<th>Max. Operating Pressure (bar)</th>
<th>Temperature Range C</th>
<th>Temperature Range F</th>
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<tbody>
<tr>
<td>100</td>
<td>Metal</td>
<td>G 1/4</td>
<td>20</td>
<td>100C/-20C</td>
<td>212F/-4F</td>
</tr>
<tr>
<td>200</td>
<td>Plastic</td>
<td>G 1/4</td>
<td>10</td>
<td>70C/-20C</td>
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Applications & Markets
- Pneumatic
- Manufacturing and Assembly

Product Specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Part Number</th>
<th>Description</th>
<th>Fig.</th>
<th>F (mm)</th>
<th>L (mm)</th>
<th>L1 (mm)</th>
<th>Hex (mm)</th>
<th>A (mm)</th>
<th>Weight (g)</th>
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<td>100</td>
<td>SA0017014</td>
<td>Progressive-flow blow-gun</td>
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<td>100</td>
<td>SA0017514</td>
<td>Blow-gun with airscreen</td>
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<td>SP0020014</td>
<td>Blow-gun with metal nozzle</td>
<td>3</td>
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<td>153</td>
<td>105</td>
<td>130</td>
<td>140</td>
<td>150</td>
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</table>
## Adapters

### Product Features

**200 Series**
- Zinc plated steel

**280 Series**
- Nickel plated brass

**700 Series**
- Zinc plated steel
  - EL is brass

### Physical Characteristics

<table>
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<th>Series</th>
<th>Max. Operating Pressure</th>
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<td></td>
<td>(bar)</td>
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<tr>
<td>200</td>
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<tr>
<td>280</td>
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<td>700</td>
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### Male BSP Taper Nipple

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<th>Connection F</th>
<th>Connection F1</th>
<th>Part Number</th>
<th>Fig.</th>
<th>Dimensions L (mm)</th>
<th>A (mm)</th>
<th>Hex (mm)</th>
<th>A1 (mm)</th>
<th>Weight (g)</th>
<th>Pressure (bar)</th>
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<tbody>
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<td>R 1/8</td>
<td>R 1/8</td>
<td>MA0024318</td>
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<td>26</td>
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<td>10</td>
<td>13</td>
<td>250</td>
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<tr>
<td>R 1/4</td>
<td>R 1/8</td>
<td>MA0024484</td>
<td>1</td>
<td>31</td>
<td>14</td>
<td>14</td>
<td>10</td>
<td>20</td>
<td>250</td>
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<tr>
<td>R 3/8</td>
<td>R 1/8</td>
<td>MA0024588</td>
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<td>32</td>
<td>15</td>
<td>17</td>
<td>9</td>
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<td>250</td>
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<td>R 1/4</td>
<td>R 1/4</td>
<td>MA0024314</td>
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<td>35</td>
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<td>14</td>
<td>25</td>
<td>250</td>
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<tr>
<td>R 3/8</td>
<td>R 1/4</td>
<td>MA0024448</td>
<td>1</td>
<td>36</td>
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<td>17</td>
<td>14</td>
<td>34</td>
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<td>R 1/2</td>
<td>R 1/4</td>
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<td>41</td>
<td>19</td>
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<td>R 3/8</td>
<td>MA0024482</td>
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<td>R 3/8</td>
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</table>

### Male BSP Taper/Metric Male Nipple

<table>
<thead>
<tr>
<th>Connection F</th>
<th>Connection F1</th>
<th>Part Number</th>
<th>Fig.</th>
<th>Dimensions L (mm)</th>
<th>A (mm)</th>
<th>Hex (mm)</th>
<th>A1 (mm)</th>
<th>Weight (g)</th>
<th>Pressure (bar)</th>
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<tbody>
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<td>M 14 x 1.25</td>
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<td>M 18 x 1.25</td>
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### 200 Series (cont.)

#### Reducing Bush

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<th>Fig.</th>
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<td>G 1/8</td>
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<td>G 1/2</td>
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#### Female/Male Reducer

<table>
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<tr>
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<th>Connection F1</th>
<th>Part Number</th>
<th>Fig.</th>
<th>Dimensions</th>
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<td></td>
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<td>L (mm)</td>
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#### 280 Series

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### 280 Series (cont.)

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### 700 Series

#### Male-Threaded Hose Tail

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**Figure 2**

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**Figure 3**

#### Hose Splicer

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<td>3</td>
<td>55 - -</td>
<td></td>
<td>19</td>
</tr>
<tr>
<td>-</td>
<td>12</td>
<td>EA0079712</td>
<td>3</td>
<td>55 - -</td>
<td></td>
<td>24</td>
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<tr>
<td>-</td>
<td>16</td>
<td>EA0079716</td>
<td>3</td>
<td>78 - -</td>
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<td>50</td>
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<tr>
<td>-</td>
<td>19</td>
<td>EA0079719</td>
<td>3</td>
<td>88 - -</td>
<td></td>
<td>81</td>
</tr>
</tbody>
</table>
Hose Reels

Eaton offers air hose reels and coil assemblies for pneumatic applications.

Product Features

**SPUBD Series**
- Tube material: Polyurethane
- Swivel connections: Nickel plated brass

**ENR Series**
- Guard material: Steel
- Polyurethane braid hose
- Plug material: Brass
- Swivel joint material: Steel

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Series</th>
<th>Connection</th>
<th>Max. Operating Pressure (bar)</th>
<th>Temperature Range C</th>
<th>Temperature Range F</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPUBD</td>
<td>G 1/4 x G 1/4</td>
<td>9</td>
<td>+60C/-40C</td>
<td>+122F/-40F</td>
</tr>
<tr>
<td>ENR</td>
<td>R 1/4</td>
<td>15</td>
<td>+60C/-5C</td>
<td>+140F/+23F</td>
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</tbody>
</table>

**Applications & Markets**

- Pneumatic
- Manufacturing and Assembly

**Series**

<table>
<thead>
<tr>
<th>Series</th>
<th>Part Number</th>
<th>Connection</th>
<th>Hose I.D./O.D. (mm)</th>
<th>Max. Length (mm)</th>
<th>Min. Length (mm)</th>
<th>Coil Diameter (mm)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPUBD</td>
<td>SPUBD0684E</td>
<td>G 1/4 x G 1/4</td>
<td>5 x 8</td>
<td>4</td>
<td>25</td>
<td>60</td>
<td>Blue</td>
</tr>
<tr>
<td>SPUBD</td>
<td>SPUBD65104E</td>
<td>G 1/4 x G 1/4</td>
<td>6.5 x 10</td>
<td>4</td>
<td>32</td>
<td>70</td>
<td>Blue</td>
</tr>
</tbody>
</table>

**Series**

<table>
<thead>
<tr>
<th>Series</th>
<th>Part Number</th>
<th>End Connection</th>
<th>Hose I.D./O.D. (mm)</th>
<th>L1 (mm)</th>
<th>L2 (mm)</th>
<th>H (mm)</th>
<th>I1 (mm)</th>
<th>I2 (mm)</th>
<th>Hose Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENR</td>
<td>ENRTPU081210E</td>
<td>R 1/4</td>
<td>8 x 12</td>
<td>345</td>
<td>380</td>
<td>320</td>
<td>121</td>
<td>170</td>
<td>10</td>
<td>9.5</td>
</tr>
</tbody>
</table>
The Eaton FD17 high pressure coupling can be connected by hand while under pressure up to 4,500 psi/310 bar. This quick disconnect coupling is most commonly used in SCBA transfilling and buddy breathing applications and is commonly found on SCBA equipment certified to various NIOSH, NFPA and CBRN standards.

**Product Features**
- Connect and disconnect under pressure up to 4,500 psi/310 bar
- Certified on SCBA equipment that meets NIOSH, NFPA 1981 and CBRN requirements
- Complies with NFPA 1981
- Standard body material: Stainless steel, aluminum

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Series</th>
<th>Max. Operating Pressure (bar)</th>
<th>Min. Burst Pressure (bar)</th>
<th>Rated Flow* (lpm)</th>
<th>Rated Temperature (-25°F/-32°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD17</td>
<td>310 4,500</td>
<td>930 13,500</td>
<td>125</td>
<td>-25°F (-32°C)/+160°F (+71°C)</td>
</tr>
</tbody>
</table>

**Part Number**

- FD17-1003-04-04: Socket/Female 1/4" -4 7/16-20 ORB 1 2.85 1.38 0.75 72.4 35.1 19.1
- FD17-1002-10-04: Plug/Male 1/4" -10 7/8-14 ORB 2 1.93 1.43 1 49.0 36.3 25.4

**Dimensions**

- Male Dust Cap: Part Number FD17-1064-04
- Female Dust Cap: Part Number FD17-1062-04
FD69 Series
10,000 psi Water Blast

Eaton’s FD69 Series design has a greater surface contact area for long service life in rugged high pressure and water blast applications. The maximum operating pressure is 10,000 psi with 40,000 psi minimum burst pressure.

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

Applications & Markets
- High pressure water blast
- Bridge/concrete repair
- Paint stripping
- Shipyards

Flow Data
Pressure Drop Versus Flow Graph

Gallons Per Minute Flow
Test Fluid: Water at 70°F
FD69 Series
10,000 psi Water Blast

**Dimensions (Female NPT)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FD69-1002-06-08</td>
<td>Plug/Male*</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>1</td>
<td>47.0 (1.85) 41.7 (1.64) 25.4 (1.00)</td>
</tr>
<tr>
<td>FD69-1001-06-08</td>
<td>Socket/Female</td>
<td>1/2</td>
<td>3/8</td>
<td>3/8-18 Female NPT</td>
<td>2</td>
<td>54.1 (2.13) 41.1 (1.62) 31.8 (1.25)</td>
</tr>
<tr>
<td>FD69-1002-08-08</td>
<td>Plug/Male*</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2-14 Female NPT</td>
<td>1</td>
<td>59.4 (2.34) 41.7 (1.64) 28.4 (1.12)</td>
</tr>
<tr>
<td>FD69-1001-08-08</td>
<td>Socket/Female</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2-14 Female NPT</td>
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<td>54.1 (2.13) 41.1 (1.62) 31.8 (1.25)</td>
</tr>
<tr>
<td>Stainless Steel</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FD69-1012-08-08</td>
<td>Plug/Male*</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2-14 Female NPT</td>
<td>1</td>
<td>59.4 (2.34) 41.7 (1.64) 28.4 (1.12)</td>
</tr>
<tr>
<td>FD69-1011-08-08</td>
<td>Socket/Female</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2-14 Female NPT</td>
<td>2</td>
<td>54.1 (2.13) 41.1 (1.62) 33.3 (1.31)</td>
</tr>
</tbody>
</table>

*Male halves contain no seals.

**Repair Kit, Female Interface Seal**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Size</th>
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</thead>
<tbody>
<tr>
<td>Buna-N</td>
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</tr>
<tr>
<td>FF10166</td>
<td>1/2</td>
</tr>
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</table>
FD83 Series
Full Flow Dual Interlock

Eaton’s FD83 is designed for fluid transfer and electronics cooling applications where full flow, fluid compatibility and safety are essential. The FD83 identical halves include two interlock features to eliminate spills and ensure maximum safety. Valves cannot be opened until the coupling halves are mated and coupling halves cannot be disconnected until both halves are closed. The FD83 coupling system can be used in a wide variety of low pressure industrial applications.

Product Features
- Dual interlock safety feature eliminates accidental opening of coupling when disconnected with the use of a patented locking pin design and lever handle
- Design provides reliable performance and minimal spillage during maintenance or service
- Standard seal material: EPDM, additional material available on request
- Standard body material: 303 stainless steel, additional material available on request
- Full-flow capability
- Available color coded bumper seals available
- Identical coupling halves
- Maintenance and service friendly
- 303 stainless steel material provides broad fluid compatibility
- 3/4” and 1” Female NPT port threads or hose barb

Physical Characteristics

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>Max. Operating Pressure</th>
<th>Min. Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Connected Socket/Female Half</td>
<td>Connected Socket/Female Half</td>
</tr>
<tr>
<td></td>
<td>Socket/Female Half</td>
<td>Socket/Female Half</td>
</tr>
<tr>
<td></td>
<td>(in)</td>
<td>(bar)</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>150</td>
</tr>
</tbody>
</table>

Flow Data

<table>
<thead>
<tr>
<th>Test Fluid: Water at 70°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop Versus Flow</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Type</th>
<th>Fig.</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>Hex</td>
</tr>
<tr>
<td>FD83-2052-16-16</td>
<td>1</td>
<td>1</td>
<td>1-11-1/2</td>
<td>Female NPT</td>
<td>1</td>
<td>95.5</td>
</tr>
<tr>
<td>FD83-2052-12-16</td>
<td>1</td>
<td>3/4</td>
<td>3/4-14</td>
<td>Female NPT</td>
<td>1</td>
<td>70.1</td>
</tr>
<tr>
<td>FD83-2046-16-16</td>
<td>1</td>
<td>1</td>
<td>NA</td>
<td>1” Hose Barb</td>
<td>2</td>
<td>84.2</td>
</tr>
</tbody>
</table>

Hose barb adapters available upon request.

Applications & Markets
- Electronics liquid based cooling
- Thermal management systems
- Industrial fluid transfer
Eaton’s 2HKIG/2HKIL Series stainless steel couplings can be used with various liquids and gases. They are functionally identical, but do not interchange. They can be used where it is necessary to avoid crossing lines.

Product Features

- Ball Lock
- Proprietary interchange with all stainless steel construction
- Female/Socket halves available with 90° connections
- Standard body material: Stainless steel
- Standard seal material: Buna-N

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure Connected</th>
<th>Min. Burst Pressure</th>
<th>Rated Flow</th>
<th>All Inclusion</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in) (bar) (psi)</td>
<td>(bar) (psi)</td>
<td>(lpm) (gpm)</td>
<td>cc. max.</td>
<td>cc. max.</td>
</tr>
<tr>
<td>1/4</td>
<td>103 1,500 412 6,000 8.3 2.2</td>
<td>412 6,000</td>
<td>8.3 2.2 2.2</td>
<td>2.2 1</td>
<td></td>
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</table>

Applications & Markets

- Chemical
- Food and Beverage
- Military
- Aerospace

Flow Data

![Flow Data Graph](image)
### Male End Connections

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>A</th>
<th>B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(in)</td>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>2HIG10</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/8-27 NPTF</td>
<td>1</td>
<td>2.18</td>
<td>1.06</td>
<td>0.81</td>
<td>55.4</td>
<td>26.9</td>
</tr>
<tr>
<td>2HIG15</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/4-18 NPTF</td>
<td>1</td>
<td>2.31</td>
<td>1.06</td>
<td>0.81</td>
<td>58.7</td>
<td>26.9</td>
</tr>
<tr>
<td>2HIG20</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>3/8-18 NPTF</td>
<td>1</td>
<td>2.31</td>
<td>1.06</td>
<td>0.81</td>
<td>58.7</td>
<td>26.9</td>
</tr>
<tr>
<td>2HIG720</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>7/16-20 NPTF</td>
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<td>2.27</td>
<td>1.06</td>
<td>0.81</td>
<td>57.7</td>
<td>26.9</td>
</tr>
<tr>
<td>2HIGLLRA720</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>7/16-20 NPTF</td>
<td>3</td>
<td>2.09</td>
<td>1.06</td>
<td>—</td>
<td>53.1</td>
<td>26.9</td>
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### Female End Connections

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<thead>
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<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>A</th>
<th>B</th>
<th>Hex</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(in)</td>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>2KIGF15</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/4-18 NPTF</td>
<td>2</td>
<td>1.98</td>
<td>1.01</td>
<td>0.69</td>
<td>50.3</td>
<td>25.7</td>
</tr>
<tr>
<td>2KIGF20</td>
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<td>3/8-18 NPTF</td>
<td>2</td>
<td>1.98</td>
<td>1.01</td>
<td>0.69</td>
<td>50.3</td>
<td>25.7</td>
</tr>
</tbody>
</table>

### Figures

- **Figure 1**: Male End Connections
- **Figure 2**: Female End Connections
- **Figure 3**: Male End Connections

---

**Figure 1**

**Figure 2**

**Figure 3**

---

**EATON Quick Disconnect Couplings EMEA E-MEQD-CC001-N July 2014**
### 2HKIL Series

#### Male End Connections

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
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<td>2HIL10</td>
<td>Socket/Female</td>
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<td>1.06</td>
<td>0.81</td>
<td>55.4</td>
<td>26.9</td>
</tr>
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<td>2HIL15</td>
<td>Socket/Female</td>
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<td>1/4-18 NPTF</td>
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<td>2.31</td>
<td>1.06</td>
<td>0.81</td>
<td>58.7</td>
<td>26.9</td>
</tr>
<tr>
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<td>3/8-18 NPTF</td>
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<td>1.06</td>
<td>0.81</td>
<td>58.7</td>
<td>26.9</td>
</tr>
<tr>
<td>2HIL720</td>
<td>Socket/Female</td>
<td>1/4</td>
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<td>0.81</td>
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<td>3</td>
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<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>C</th>
<th>D</th>
<th>Hex</th>
<th>C</th>
<th>D</th>
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<td>(in)</td>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td></td>
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<td>2KILF15</td>
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<td>1/4-18 NPTF</td>
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#### Female End Connections

<table>
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<tr>
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<th>Coupling Type</th>
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<th>Thread</th>
<th>Fig.</th>
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<th>A</th>
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<th>Hex</th>
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<th>D</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(in)</td>
<td>(in)</td>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
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</tr>
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<td>1.06</td>
<td>0.81</td>
<td>55.4</td>
<td>26.9</td>
<td>20.6</td>
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</tr>
<tr>
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<td>1/4-18 NPTF</td>
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<td>1.06</td>
<td>0.81</td>
<td>57.4</td>
<td>26.9</td>
<td>20.6</td>
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<thead>
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<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Hex</th>
<th>C</th>
<th>D</th>
<th>Hex</th>
<th>C</th>
<th>D</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(in)</td>
<td>(in)</td>
<td>(in)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td></td>
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<tr>
<td>2KILF16</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/4-18 NPTF</td>
<td>2</td>
<td>1.84</td>
<td>1.01</td>
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<tr>
<td>2KILF720</td>
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<td>7/16-20</td>
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<td>0.69</td>
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<td>17.5</td>
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<tr>
<td>2KILF</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>9/16-18</td>
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<td>1.17</td>
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<td>29.7</td>
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</tr>
</tbody>
</table>

**Figure 1**

**Figure 2**
J50000 Series

Eaton’s J50000 Series is commonly seen in injection molding applications on cooling and heating lines. Stainless steel and vibration resistant structure allows for use in demanding cooling and heating environments.

Product Features

- Offers double sealing when connected
- Vibration resistant
- Flat face valves with ball locking
- Standard body material: Stainless steel
- Standard seal material: FKM

Physical Characteristics

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow</th>
<th>Fluid Loss</th>
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<td></td>
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<td>(psi)</td>
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<tr>
<td>9</td>
<td>50</td>
<td>725</td>
<td>43</td>
</tr>
</tbody>
</table>

Applications & Markets

- Injection Molding
- Electronic Cooling
- Heat-transfer Fluid

Flow Data

Hydraulic Oil viscosity: 30 Cst at 40°C / 104°F

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Socket/Female Part Number</th>
<th>Coupling Type</th>
<th>Connection (F)</th>
<th>Fig.</th>
<th>Dimensions L</th>
<th>L1</th>
<th>ø1</th>
<th>Hex</th>
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<td></td>
<td>(mm)</td>
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<td>(mm)</td>
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<td>JX5062614</td>
<td>Female Thread</td>
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<td></td>
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<tr>
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<td>90° Female Thread</td>
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<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Plug/Male Part Number</th>
<th>Coupling Type</th>
<th>Connection (F)</th>
<th>Fig.</th>
<th>Dimensions L</th>
<th>A</th>
<th>ø1</th>
<th>ø2</th>
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<td></td>
<td>(mm)</td>
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<td>(mm)</td>
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<td>JX5067215</td>
<td>Male Thread</td>
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<td>12.5</td>
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<td>17</td>
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<td>JX5097239</td>
<td>Male Thread</td>
<td>G 3/8</td>
<td>3</td>
<td>56</td>
<td>10</td>
<td>27</td>
<td>17</td>
<td>24</td>
</tr>
</tbody>
</table>
**J70000 Series**

Eaton’s J70000 Series is commonly seen in injection molding applications on cooling and heating lines. Brass and vibration resistant structure allows for use in demanding cooling and heating environments.

**Product Features**
- Standard body material: Brass
- Standard seal material: Viton

**Physical Characteristics**

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(bar)</td>
<td>(psi)</td>
</tr>
<tr>
<td>8</td>
<td>15</td>
<td>217</td>
</tr>
<tr>
<td>12</td>
<td>15</td>
<td>217</td>
</tr>
</tbody>
</table>

**Applications & Markets**
- Injection Molding
- Cooling water
- Heat-transfer fluid

---

**Product Features**

- Standard body material: Brass
- Standard seal material: Viton

**Physical Characteristics**

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(bar)</td>
<td>(psi)</td>
</tr>
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<td>15</td>
<td>217</td>
</tr>
<tr>
<td>12</td>
<td>15</td>
<td>217</td>
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</tbody>
</table>

**Applications & Markets**
- Injection Molding
- Cooling water
- Heat-transfer fluid

---

**Product Features**

- Standard body material: Brass
- Standard seal material: Viton

**Physical Characteristics**

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(bar)</td>
<td>(psi)</td>
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<tr>
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<td>15</td>
<td>217</td>
</tr>
<tr>
<td>12</td>
<td>15</td>
<td>217</td>
</tr>
</tbody>
</table>

**Applications & Markets**
- Injection Molding
- Cooling water
- Heat-transfer fluid
## J70000 Series

### Fluid Transfer and Hydraulic Pneumatic Special Applications Diagnostic Agricultural Refrigerant

#### Plug/Male Part Coupling Hose Dimensions

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Plug/Male Part Number</th>
<th>Coupling Type</th>
<th>Dimensions (in)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>JL7088389</td>
<td>Plug with 135° hose tail</td>
<td>8 mm, 3</td>
<td>2.78 0.79 0.31 1.08 1.44 2.17 70.5 20 8</td>
</tr>
<tr>
<td>8</td>
<td>JL7088301</td>
<td>Plug with 135° hose tail</td>
<td>10 mm, 3</td>
<td>2.80 0.79 0.39 1.08 1.46 2.19 71 20 10</td>
</tr>
<tr>
<td>12</td>
<td>JL7088312</td>
<td>Plug with 135° hose tail</td>
<td>12 mm, 3</td>
<td>2.97 0.79 0.47 1.30 1.63 2.36 75.5 20 12</td>
</tr>
</tbody>
</table>

#### Plug/Male Part Coupling Thread Dimensions

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Plug/Male Part Number</th>
<th>Coupling Type</th>
<th>Dimensions (in)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>JL7086214</td>
<td>Plug with female thread G</td>
<td>1/4</td>
<td>1.77 0.79 1.18 0.67 45</td>
</tr>
<tr>
<td>12</td>
<td>JL7126212</td>
<td>Plug with female thread G</td>
<td>1/2</td>
<td>2.28 1.10 1.52 0.94 58</td>
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</table>

#### Plug/Male Part Coupling Size Dimensions

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Plug/Male Part Number</th>
<th>Coupling Type</th>
<th>Dimensions (in)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>JL7083618</td>
<td>Socket with male thread R</td>
<td>1/8</td>
<td>1.10 0.83 0.38 0.30 0.20 28</td>
</tr>
<tr>
<td>8</td>
<td>JL7083614</td>
<td>Socket with male thread R</td>
<td>1/4</td>
<td>1.22 0.83 0.51 0.43 0.31 31</td>
</tr>
<tr>
<td>8</td>
<td>JL7083638</td>
<td>Socket with male thread R</td>
<td>3/8</td>
<td>1.22 0.83 0.65 0.45 0.39 31</td>
</tr>
<tr>
<td>12</td>
<td>JL7123638</td>
<td>Socket with male thread R</td>
<td>3/8</td>
<td>1.56 1.26 0.65 0.45 0.39 39.5</td>
</tr>
<tr>
<td>12</td>
<td>JL7123612</td>
<td>Socket with male thread R</td>
<td>1/2</td>
<td>1.61 1.26 0.62 0.55 0.47 41</td>
</tr>
</tbody>
</table>

To obtain connected length of coupling add Dimensions F (Fig. 1, 2, 3, 4 or 5) and A (Fig. 6 or Fig. 7) together.
Eaton’s ST Series is a straight through coupling that is designed for use where minimum pressure drop is required and valving is not needed. These couplings are suited for various and versatile fluid transfer type systems.

**Product Features**
- Ball latching mechanism
- Smooth bore permits free flow of liquid or gas
- Available in NPTF, BSPP and Hose stem end connections
- Standard seal material: Buna-N
- Standard body material: Brass, 303 stainless steel, steel

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Diameter</th>
<th>Max. Operating Pressure Brass Socket &amp; Plug**</th>
<th>Max. Operating Pressure Stainless Socket &amp; Plug**</th>
<th>Max. All material Pressure Socket &amp; Plug**</th>
<th>Min. Burst Pressure*</th>
<th>Rated Flow</th>
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</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(bar)</td>
<td>(bar)</td>
<td>(bar)</td>
<td>(bar)</td>
<td>(lpm)</td>
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<tr>
<td>1ST 1/8</td>
<td>193</td>
<td>2,800</td>
<td>234</td>
<td>3,400</td>
<td>772</td>
</tr>
<tr>
<td>2ST 1/4</td>
<td>359</td>
<td>5,200</td>
<td>379</td>
<td>5,500</td>
<td>1,436</td>
</tr>
<tr>
<td>3ST 3/8</td>
<td>193</td>
<td>2,800</td>
<td>290</td>
<td>4,200</td>
<td>772</td>
</tr>
<tr>
<td>4ST 1/2</td>
<td>152</td>
<td>2,200</td>
<td>241</td>
<td>3,500</td>
<td>608</td>
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<tr>
<td>5ST 3/4</td>
<td>117</td>
<td>1,700</td>
<td>145</td>
<td>2,100</td>
<td>468</td>
</tr>
<tr>
<td>8ST 1</td>
<td>91</td>
<td>1,300</td>
<td>138</td>
<td>2,000</td>
<td>360</td>
</tr>
<tr>
<td>10ST 1 1/4</td>
<td>117</td>
<td>1,700</td>
<td>186</td>
<td>2,700</td>
<td>468</td>
</tr>
<tr>
<td>12ST 1 1/2</td>
<td>97</td>
<td>1,400</td>
<td>152</td>
<td>2,200</td>
<td>388</td>
</tr>
<tr>
<td>16ST 2</td>
<td>97</td>
<td>1,400</td>
<td>152</td>
<td>2,200</td>
<td>388</td>
</tr>
<tr>
<td>20ST 2 1/2</td>
<td>90</td>
<td>1,000</td>
<td>103</td>
<td>1,500</td>
<td>215</td>
</tr>
</tbody>
</table>

* For Brass socket and plug. Other materials have 4 to 1 safety factor
** Operating pressure for Non Hazardous liquids and gases from Group 2
*** Operating pressure is same as Non Hazardous liquids and gases from Group 2 for this size

**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.

**Applications & Markets**
- Fluid Transfer
- Chemical
- Food and Beverage
- Injection Molding
- Marine
- Medical
- Pressure Washing
- Steam Cleaning

**Flow Data**

- Pressure Drop, psi vs. Flow Rate, gpm (Hydraulic Oil at 100°F)
- Pressure Drop, psi vs. Flow Rate, gpm (Hydraulic Oil at 100°F)
### ST Series

#### Male End Connections

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Brass</th>
<th>Steel</th>
<th>Stainless</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Type</th>
<th>Dimensions</th>
<th>Fig.</th>
<th>A</th>
<th>B</th>
<th>Hex</th>
<th>A</th>
<th>B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>1S10</td>
<td>—</td>
<td>LL</td>
<td>—</td>
<td>Socket/Female</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8-27</td>
<td>NPTF</td>
<td>1</td>
<td>1.06</td>
<td>0.72</td>
<td>0.56</td>
<td>26.9</td>
<td>18.3</td>
<td>14.2</td>
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<td>LL</td>
<td>—</td>
<td>Socket/Female</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8-28</td>
<td>BSPP</td>
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<td>1.00</td>
<td>0.72</td>
<td>0.56</td>
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<td>1/4</td>
<td>1/4-18</td>
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<td>Socket/Female</td>
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<td>1/2</td>
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<td>1/2</td>
<td>1/2-14</td>
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<td>3/4-14</td>
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<td>LL</td>
<td>—</td>
<td>Socket/Female</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4-14</td>
<td>BSPP</td>
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<td>2.03</td>
<td>1.72</td>
<td>1.44</td>
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<td>1</td>
<td>1-11/2</td>
<td>NPTF</td>
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<td>2.03</td>
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<td>LL</td>
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<td>1</td>
<td>1-11</td>
<td>BSPP</td>
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<td>2.37</td>
<td>2.03</td>
<td>1.75</td>
<td>60.2</td>
<td>51.6</td>
<td>44.5</td>
<td></td>
</tr>
</tbody>
</table>

**High impulse heat treated 416 stainless steel**

---

**Figure 1**

**Figure 2**
### ST Series

#### Female End Connections

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Brass</th>
<th>Steel</th>
<th>Stainless</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size Range</th>
<th>Dimensions (in)</th>
<th>Thread Type</th>
<th>Type</th>
<th>Fig.</th>
<th>A (in)</th>
<th>B (in)</th>
<th>Hex A (mm)</th>
<th>Hex B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6S11</td>
<td>—</td>
<td>LL6S11</td>
<td>—</td>
<td>Socket/Female</td>
<td>1/8</td>
<td>1/8-27</td>
<td>0.97</td>
<td>NPTF</td>
<td>2</td>
<td>1.06</td>
<td>0.72</td>
<td>0.56</td>
<td>26.9</td>
<td>18.3</td>
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<tr>
<td>6S11BS</td>
<td>—</td>
<td>LL6S11BS</td>
<td>—</td>
<td>Socket/Female</td>
<td>1/8</td>
<td>1/8-28</td>
<td>0.97</td>
<td>BSPP</td>
<td>2</td>
<td>1.03</td>
<td>0.72</td>
<td>0.56</td>
<td>26.2</td>
<td>18.3</td>
</tr>
<tr>
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*With Steel Sleeve

**High impulse heat treated 416 stainless steel
### Hose Stem End Connections

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### Dust Caps and Dust Plugs

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Eaton’s 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 trivalent plated steel
- 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 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

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<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure (connected)*</th>
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<td>[mm]</td>
<td>bar (psi)</td>
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<td>10</td>
<td>700</td>
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<td>12</td>
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Seal Elastomer Data*

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*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.

Flow Data

The nominal flow diameter of the coupling has no impact on pressure drop, as it is wider than the circuit diameter.
## L7000 Series
### Full Flow (Steel)

#### Sockets (Female)

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<th>Thread Size (Female) **</th>
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<th>Dimensions B (in)</th>
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<td>0.63</td>
<td>41.5</td>
<td>24</td>
</tr>
<tr>
<td>LA0701100</td>
<td>¼</td>
<td>10</td>
<td>¾-19</td>
<td>1.42</td>
<td>1.10</td>
<td>0.83</td>
<td>0.75</td>
<td>36</td>
<td>28</td>
</tr>
<tr>
<td>LA0702100</td>
<td>½</td>
<td>12</td>
<td>¾-19</td>
<td>1.50</td>
<td>1.34</td>
<td>1.02</td>
<td>0.90</td>
<td>38</td>
<td>34</td>
</tr>
<tr>
<td>LA0703100</td>
<td>½</td>
<td>15</td>
<td>¾-14</td>
<td>1.77</td>
<td>1.50</td>
<td>1.18</td>
<td>1.06</td>
<td>46</td>
<td>38</td>
</tr>
<tr>
<td>LA0704100</td>
<td>¾</td>
<td>20</td>
<td>¾-14</td>
<td>2.20</td>
<td>1.89</td>
<td>1.50</td>
<td>1.38</td>
<td>56</td>
<td>48</td>
</tr>
<tr>
<td>LA0705100</td>
<td>1</td>
<td>25</td>
<td>1-11</td>
<td>2.40</td>
<td>2.05</td>
<td>1.77</td>
<td>1.61</td>
<td>61</td>
<td>52</td>
</tr>
<tr>
<td>LA0706100</td>
<td>1¼</td>
<td>33</td>
<td>1¼-11</td>
<td>2.64</td>
<td>2.95</td>
<td>2.36</td>
<td>2.16</td>
<td>67</td>
<td>75</td>
</tr>
<tr>
<td>LA0707100</td>
<td>1¾</td>
<td>40</td>
<td>1½-11</td>
<td>3.38</td>
<td>3.35</td>
<td>2.83</td>
<td>2.56</td>
<td>86</td>
<td>85</td>
</tr>
</tbody>
</table>

*Body sizes 1¼, 1½ and 2 are supplied with FKM seals as a standard.

**Alternative end connections available upon request.

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

#### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter (in)</th>
<th>Thread Size (Female) **</th>
<th>Dimensions</th>
<th>Weight lbs</th>
<th>Weight grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA0700200</td>
<td>¼</td>
<td>8</td>
<td>¾-28</td>
<td>0.43</td>
<td>0.72</td>
<td>0.41</td>
</tr>
<tr>
<td>LA0701200</td>
<td>¼</td>
<td>10</td>
<td>¾-19</td>
<td>0.56</td>
<td>0.82</td>
<td>0.41</td>
</tr>
<tr>
<td>LA0702200</td>
<td>¼</td>
<td>12</td>
<td>¾-19</td>
<td>0.75</td>
<td>1.02</td>
<td>0.42</td>
</tr>
<tr>
<td>LA0703200</td>
<td>½</td>
<td>16</td>
<td>½-14</td>
<td>0.81</td>
<td>1.18</td>
<td>0.51</td>
</tr>
<tr>
<td>LA0704200</td>
<td>¾</td>
<td>20</td>
<td>½-14</td>
<td>1.07</td>
<td>1.50</td>
<td>0.55</td>
</tr>
<tr>
<td>LA0705200</td>
<td>1</td>
<td>25</td>
<td>1-11</td>
<td>1.73</td>
<td>1.27</td>
<td>0.73</td>
</tr>
<tr>
<td>LA0706200</td>
<td>1¼</td>
<td>33</td>
<td>1¼-11</td>
<td>2.12</td>
<td>1.73</td>
<td>0.83</td>
</tr>
<tr>
<td>LA0707200</td>
<td>1½</td>
<td>40</td>
<td>1½-11</td>
<td>2.32</td>
<td>2.10</td>
<td>0.87</td>
</tr>
<tr>
<td>LA0709200</td>
<td>2</td>
<td>50</td>
<td>2-11</td>
<td>2.68</td>
<td>2.47</td>
<td>3.27</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
<th>Weight lbs</th>
<th>Weight grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>HD0510100</td>
<td>HD0510200</td>
<td>0.04</td>
<td>19</td>
</tr>
<tr>
<td>¼</td>
<td>HD0511100</td>
<td>HD0511200</td>
<td>0.12</td>
<td>54</td>
</tr>
<tr>
<td>⅜</td>
<td>HD0612100</td>
<td>HD0612200</td>
<td>0.14</td>
<td>66</td>
</tr>
<tr>
<td>½</td>
<td>HD0513100</td>
<td>HD0513200</td>
<td>0.16</td>
<td>78</td>
</tr>
<tr>
<td>⅜</td>
<td>HD0614100</td>
<td>HD0614200</td>
<td>0.22</td>
<td>102</td>
</tr>
<tr>
<td>⅜</td>
<td>HD0615100</td>
<td>HD0615200</td>
<td>0.28</td>
<td>138</td>
</tr>
<tr>
<td>½</td>
<td>HD0616100</td>
<td>HD0616200</td>
<td>0.34</td>
<td>162</td>
</tr>
<tr>
<td>⅜</td>
<td>HD0617100</td>
<td>HD0617200</td>
<td>0.40</td>
<td>196</td>
</tr>
<tr>
<td>⅜</td>
<td>HD0619100</td>
<td>HD0619200</td>
<td>0.46</td>
<td>230</td>
</tr>
</tbody>
</table>
**Eaton’s 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 should not be used to convey gases in Group 1 (hazardous). They are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.

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

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

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter (in)</th>
<th>Max. Operating Pressure (connected)* (bar) Liquids in Groups 1 and 2</th>
<th>Gases in Group 2 (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>8</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>½</td>
<td>10</td>
<td>230</td>
<td>230</td>
</tr>
<tr>
<td>¾</td>
<td>12</td>
<td>175</td>
<td>175</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>1¼</td>
<td>20</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>1½</td>
<td>25</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>33</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>1½</td>
<td>40</td>
<td>49</td>
<td>49</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>39</td>
<td>39</td>
</tr>
</tbody>
</table>

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

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>-20°C to +100°C / -4°F to +212°F</td>
</tr>
<tr>
<td>FKM (Fluorocarbon)</td>
<td>-20°C to +200°C / -4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)**</td>
<td>-40°C to +180°C / -40°F to +362°F</td>
</tr>
</tbody>
</table>

*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)**

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size**</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL0700100</td>
<td>8</td>
<td>1/4-28</td>
<td>1</td>
<td>1.83 0.94 0.83 0.63 41.5 24 21 16 0.21 95</td>
<td></td>
</tr>
<tr>
<td>LL0701100</td>
<td>10</td>
<td>1/4-19</td>
<td>1</td>
<td>1.42 1.10 0.83 0.75 36 28 21 19 0.21 96</td>
<td></td>
</tr>
<tr>
<td>LL0702100</td>
<td>12</td>
<td>1/4-19</td>
<td>1</td>
<td>1.50 1.34 1.02 1.00 38 34 26 23 0.31 142</td>
<td></td>
</tr>
<tr>
<td>LL0703100</td>
<td>15</td>
<td>1/4-14</td>
<td>1</td>
<td>1.77 1.50 1.18 1.06 46 38 30 27 0.43 195</td>
<td></td>
</tr>
<tr>
<td>LL0704100</td>
<td>20</td>
<td>1/4-14</td>
<td>1</td>
<td>2.20 1.89 1.50 1.38 56 48 38 35 0.86 391</td>
<td></td>
</tr>
<tr>
<td>LL0705100</td>
<td>25</td>
<td>1-11</td>
<td>1</td>
<td>2.40 2.05 1.77 1.61 61 52 45 41 1.37 484</td>
<td></td>
</tr>
<tr>
<td>LL0706100</td>
<td>33</td>
<td>1-11</td>
<td>1</td>
<td>2.64 2.35 2.16 2.10 67 55 50 44 2.37 1073</td>
<td></td>
</tr>
<tr>
<td>LL0707100</td>
<td>40</td>
<td>1-11</td>
<td>1</td>
<td>3.38 3.35 2.83 2.56 86 72 65 56 4.23 1920</td>
<td></td>
</tr>
</tbody>
</table>

* Body sizes 1¼, 1½ and 2 are supplied with FKM seals as a standard.
** Alternative end connections available upon request.

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

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size*</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL0700200</td>
<td>8</td>
<td>1/4-28</td>
<td>2</td>
<td>1.02 0.43 0.72 0.41 0.63 26 11 18.4 10.5 16 0.05 21</td>
<td></td>
</tr>
<tr>
<td>LL0701200</td>
<td>10</td>
<td>1/4-19</td>
<td>2</td>
<td>1.00 0.56 0.82 0.41 0.75 25.5 14.2 21 10.5 19 0.06 29</td>
<td></td>
</tr>
<tr>
<td>LL0702200</td>
<td>12</td>
<td>1/4-19</td>
<td>2</td>
<td>1.10 0.75 1.02 0.42 0.90 58 19 26 10.7 23 0.11 50</td>
<td></td>
</tr>
<tr>
<td>LL0703200</td>
<td>15</td>
<td>1/4-14</td>
<td>2</td>
<td>1.30 0.81 1.18 0.51 1.06 33 20.6 30 13 27 0.13 59</td>
<td></td>
</tr>
<tr>
<td>LL0704200</td>
<td>20</td>
<td>1/4-14</td>
<td>2</td>
<td>1.57 1.10 1.50 0.55 1.36 40 27.8 38 14 35 0.29 129</td>
<td></td>
</tr>
<tr>
<td>LL0705200</td>
<td>25</td>
<td>1-11</td>
<td>2</td>
<td>1.73 1.27 1.77 0.73 1.81 64 45 18.5 41 0.35 171</td>
<td></td>
</tr>
<tr>
<td>LL0706200</td>
<td>33</td>
<td>1-11</td>
<td>2</td>
<td>2.12 1.73 2.36 0.83 2.16 54 44 60 21 55 1.03 466</td>
<td></td>
</tr>
<tr>
<td>LL0707200</td>
<td>40</td>
<td>1-11</td>
<td>2</td>
<td>2.32 2.10 2.83 0.87 2.56 59 53.5 71.9 22 65 1.59 722</td>
<td></td>
</tr>
<tr>
<td>LL0708200</td>
<td>50</td>
<td>2-11</td>
<td>2</td>
<td>2.68 2.47 3.27 1.06 2.95 68 62.8 83 27 75 2.04 923</td>
<td></td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>HD0510100</td>
<td>HD0510200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0511100</td>
<td>HD0511200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0512100</td>
<td>HD0512200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0513100</td>
<td>HD0513200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0514100</td>
<td>HD0514200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0515100</td>
<td>HD0515200</td>
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<tr>
<td>1/4</td>
<td>HD0516100</td>
<td>HD0516200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0517100</td>
<td>HD0517200</td>
</tr>
<tr>
<td>1/4</td>
<td>HD0518100</td>
<td>HD0518200</td>
</tr>
</tbody>
</table>

Socket Dust Plug

Plug Dust Cap
Eaton’s 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

**Applications & Markets**
- Pressure Washing
- Steam-cleaning Equipment
- Fluid Transfer Lines
- Refrigerant Circuits
- Applications where maximum flow capacity is required

**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**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure (connected)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Non hazardous liquids &amp; gases Group 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(bar)</td>
</tr>
<tr>
<td>1/4</td>
<td>8</td>
<td>300</td>
</tr>
<tr>
<td>3/8</td>
<td>10</td>
<td>230</td>
</tr>
<tr>
<td>1/2</td>
<td>12</td>
<td>179</td>
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<td>5/8</td>
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<td>150</td>
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<td>3/4</td>
<td>20</td>
<td>125</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>100</td>
</tr>
<tr>
<td>1 1/4</td>
<td>33</td>
<td>100</td>
</tr>
<tr>
<td>1 1/2</td>
<td>40</td>
<td>75</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>40</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM (Fluorocarbon)</td>
<td>-20°C to +200°C/-4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)**</td>
<td>-40°C to +150°C/-40°F to +302°F</td>
</tr>
</tbody>
</table>

*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)**

### Sockets (Female)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>L707020V0</td>
<td>¾ 8</td>
<td>⅜-28</td>
<td>1 1.63</td>
<td>1 0.94</td>
<td>0.83</td>
</tr>
<tr>
<td>L707011V0</td>
<td>¾ 10</td>
<td>¾-19</td>
<td>1 1.42</td>
<td>1 1.10</td>
<td>0.83</td>
</tr>
<tr>
<td>L707021V0</td>
<td>¾ 12</td>
<td>¾-19</td>
<td>1 1.50</td>
<td>1 1.34</td>
<td>1.02</td>
</tr>
<tr>
<td>L707031V0</td>
<td>½ 15</td>
<td>½-14</td>
<td>1 1.77</td>
<td>1 1.50</td>
<td>1.18</td>
</tr>
<tr>
<td>L707041V0</td>
<td>¾ 20</td>
<td>¾-14</td>
<td>1 2.20</td>
<td>1.89</td>
<td>1.50</td>
</tr>
<tr>
<td>L707051V0</td>
<td>½ 25</td>
<td>1-11</td>
<td>1 2.40</td>
<td>2.05</td>
<td>1.77</td>
</tr>
<tr>
<td>L707061V0</td>
<td>½ 33</td>
<td>⅜-11</td>
<td>1 2.64</td>
<td>2.95</td>
<td>2.36</td>
</tr>
<tr>
<td>L707071V0</td>
<td>½ 40</td>
<td>⅜-11</td>
<td>1 3.38</td>
<td>3.35</td>
<td>2.83</td>
</tr>
<tr>
<td>L707091V0</td>
<td>50 50</td>
<td>2-11</td>
<td>1 3.46</td>
<td>3.82</td>
<td>3.27</td>
</tr>
</tbody>
</table>

*Alternative end connections available upon request.

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

### Plugs (Male)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>L7070200</td>
<td>¾ 8</td>
<td>⅜-28</td>
<td>2 1.02</td>
<td>0.43</td>
<td>0.72</td>
</tr>
<tr>
<td>L7070100</td>
<td>¾ 10</td>
<td>¾-19</td>
<td>2 1.00</td>
<td>0.56</td>
<td>0.82</td>
</tr>
<tr>
<td>L7070200</td>
<td>¾ 12</td>
<td>¾-19</td>
<td>2 1.10</td>
<td>0.75</td>
<td>1.02</td>
</tr>
<tr>
<td>L70703200</td>
<td>¾ 15</td>
<td>¾-14</td>
<td>2 1.30</td>
<td>0.81</td>
<td>1.19</td>
</tr>
<tr>
<td>L70704200</td>
<td>¾ 20</td>
<td>¾-14</td>
<td>2 1.57</td>
<td>1.10</td>
<td>1.50</td>
</tr>
<tr>
<td>L7070520</td>
<td>1 25</td>
<td>1-11</td>
<td>2 1.73</td>
<td>1.27</td>
<td>1.77</td>
</tr>
<tr>
<td>L7070620</td>
<td>1 ¼ 33</td>
<td>⅜-11</td>
<td>2 2.12</td>
<td>1.73</td>
<td>2.38</td>
</tr>
<tr>
<td>L7070720</td>
<td>1 ½ 40</td>
<td>⅜-11</td>
<td>2 2.32</td>
<td>2.10</td>
<td>2.83</td>
</tr>
<tr>
<td>L7070920</td>
<td>2 50</td>
<td>2-11</td>
<td>2 2.68</td>
<td>2.47</td>
<td>3.27</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Socket Dust Plug Part Number</th>
<th>Plug Dust Cap Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾</td>
<td>HD081000</td>
<td>HD0810200</td>
</tr>
<tr>
<td>¼</td>
<td>HD081100</td>
<td>HD0811200</td>
</tr>
<tr>
<td>½</td>
<td>HD081200</td>
<td>HD0812200</td>
</tr>
<tr>
<td>¾</td>
<td>HD081300</td>
<td>HD0813200</td>
</tr>
<tr>
<td>½</td>
<td>HD081400</td>
<td>HD0814200</td>
</tr>
<tr>
<td>¾</td>
<td>HD081500</td>
<td>HD0815200</td>
</tr>
<tr>
<td>½</td>
<td>HD081600</td>
<td>HD0816200</td>
</tr>
<tr>
<td>½</td>
<td>HD081700</td>
<td>HD0817200</td>
</tr>
<tr>
<td>2</td>
<td>HD081900</td>
<td>HD0819200</td>
</tr>
</tbody>
</table>

Socket dust plug

Plug dust cap
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).

Applications & Markets
- All Industries
- Agriculture
- Construction
- Fluid Transfer Lines

Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Max. Operating Pressure**</th>
<th>Rated Flow*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non hazardous liquids &amp; gases in Group 2</td>
<td>Hazardous liquids &amp; gases in Group 1</td>
</tr>
<tr>
<td>(in) (mm)</td>
<td>(bar (psi))</td>
<td>(bar (psi))</td>
</tr>
<tr>
<td>1/8</td>
<td>700</td>
<td>10,150</td>
</tr>
<tr>
<td>1/4</td>
<td>5.7</td>
<td>10,150</td>
</tr>
<tr>
<td>1/4</td>
<td>7.6</td>
<td>10,150</td>
</tr>
<tr>
<td>3/8</td>
<td>10.3</td>
<td>500</td>
</tr>
<tr>
<td>1/2</td>
<td>14.2</td>
<td>500</td>
</tr>
<tr>
<td>5/8</td>
<td>20.5</td>
<td>300</td>
</tr>
<tr>
<td>3/4</td>
<td>25.8</td>
<td>300</td>
</tr>
<tr>
<td>1</td>
<td>34.7</td>
<td>300</td>
</tr>
</tbody>
</table>

*Indicated values refer to a 1 bar/14.5 psi pressure drop.
**Group 1 = Hazardous media / Group 2 = Other media

Flow Data

Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>-20°C to +100°C / -4°F to +212°F</td>
</tr>
<tr>
<td>FKM (Fluorocarbon)</td>
<td>-20°C to +200°C / -4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)**</td>
<td>-40°C to +150°C / -40°F to +302°F</td>
</tr>
</tbody>
</table>

*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)

Cracking Pressure 0.5 bar (7.25 psi)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(in)</td>
<td>(mm)</td>
<td>BSPP</td>
<td>A (in)</td>
</tr>
<tr>
<td>RA0400000</td>
<td>RA040000V0</td>
<td>¼</td>
<td>3.8</td>
<td>¼</td>
<td>1</td>
</tr>
<tr>
<td>RA0401000</td>
<td>RA040100V0</td>
<td>½</td>
<td>5.7</td>
<td>½</td>
<td>1</td>
</tr>
<tr>
<td>RA0402000</td>
<td>RA040200V0</td>
<td>¾</td>
<td>7.6</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>RA0403000</td>
<td>RA040300V0</td>
<td>1</td>
<td>10.3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>RA0404000</td>
<td>RA040400V0</td>
<td>1 ¼</td>
<td>14.2</td>
<td>1 ¼</td>
<td>1</td>
</tr>
<tr>
<td>RA0405000</td>
<td>RA040500V0</td>
<td>1 ½</td>
<td>20.9</td>
<td>1 ½</td>
<td>1</td>
</tr>
<tr>
<td>RA0406000</td>
<td>RA040600V0</td>
<td>2</td>
<td>25.8</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>RA0407000</td>
<td>RA040700V0</td>
<td>2 ¼</td>
<td>34.7</td>
<td>2 ¼</td>
<td>1</td>
</tr>
</tbody>
</table>

*Body size 1¼, 1½ 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)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(in)</td>
<td>(mm)</td>
<td>BSPP</td>
<td>A (in)</td>
</tr>
<tr>
<td>RA040000B</td>
<td>RA04000VB</td>
<td>¼</td>
<td>3.8</td>
<td>¼</td>
<td>1</td>
</tr>
<tr>
<td>RA040100B</td>
<td>RA04010VB</td>
<td>½</td>
<td>5.7</td>
<td>½</td>
<td>1</td>
</tr>
<tr>
<td>RA040200B</td>
<td>RA04020VB</td>
<td>¾</td>
<td>7.6</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>RA040300B</td>
<td>RA04030VB</td>
<td>1</td>
<td>10.3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>RA040400B</td>
<td>RA04040VB</td>
<td>1 ¼</td>
<td>14.2</td>
<td>1 ¼</td>
<td>1</td>
</tr>
<tr>
<td>RA040500B</td>
<td>RA04050VB</td>
<td>1 ½</td>
<td>20.9</td>
<td>1 ½</td>
<td>1</td>
</tr>
<tr>
<td>RA040600B</td>
<td>RA04060VB</td>
<td>2</td>
<td>25.8</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>RA040700B</td>
<td>RA04070VB</td>
<td>2 ¼</td>
<td>34.7</td>
<td>2 ¼</td>
<td>1</td>
</tr>
</tbody>
</table>

*Body size 1¼, 1½ 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.
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

**Applications & Markets**
- All Industries
- Agriculture
- Construction
- Fluid Transfer Lines

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure*</th>
<th>Rated Flow*</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>3.8</td>
<td>400</td>
<td>5,800</td>
</tr>
<tr>
<td>⅜</td>
<td>5.7</td>
<td>400</td>
<td>5,800</td>
</tr>
<tr>
<td>½</td>
<td>7.6</td>
<td>400</td>
<td>5,800</td>
</tr>
<tr>
<td>⅝</td>
<td>10.3</td>
<td>250</td>
<td>3,625</td>
</tr>
<tr>
<td>1</td>
<td>14.2</td>
<td>250</td>
<td>3,625</td>
</tr>
<tr>
<td>1¼</td>
<td>16.5</td>
<td>250</td>
<td>3,625</td>
</tr>
<tr>
<td>1½</td>
<td>20.5</td>
<td>150</td>
<td>2,175</td>
</tr>
<tr>
<td>2</td>
<td>25.8</td>
<td>100</td>
<td>1,450</td>
</tr>
</tbody>
</table>

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

**Seal Elastomer Data**

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (Nitrile)</td>
<td>-20°C to +100°C/−4°F to +212°F</td>
</tr>
<tr>
<td>FKM (Fluorocarbon)</td>
<td>-20°C to +200°C/−4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)**</td>
<td>-40°C to +150°C/−40°F to +302°F</td>
</tr>
</tbody>
</table>

*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.
### Cracking Pressure 0.5 bar (7.25 psi)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter (in)</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL0400000</td>
<td>NBR*</td>
<td>3.8</td>
<td>¼</td>
<td>A (in) 1.46, B (in) 0.69, Hex (in) 0.63, A (mm) 37, B (mm) 17.5, Hex (mm) 16</td>
<td>0.11 lbs, 50 grams</td>
</tr>
<tr>
<td>RL0401000</td>
<td>FKM</td>
<td>5.7</td>
<td>¾</td>
<td>1.97, 0.83, 0.75, 50, 21, 19</td>
<td>0.19 lbs, 85 grams</td>
</tr>
<tr>
<td>RL0402000</td>
<td>EPDM</td>
<td>7.6</td>
<td>1</td>
<td>2.36, 0.98, 0.9, 60, 25, 23</td>
<td>0.31 lbs, 140 grams</td>
</tr>
<tr>
<td>RL0403000</td>
<td>EPDM</td>
<td>10.3</td>
<td>½</td>
<td>2.75, 1.15, 1.06, 70, 29.2, 27</td>
<td>0.47 lbs, 215 grams</td>
</tr>
<tr>
<td>RL0404000</td>
<td>EPDM</td>
<td>14.2</td>
<td>¾</td>
<td>3.38, 1.90, 1.38, 86, 38, 35</td>
<td>1.01 lbs, 460 grams</td>
</tr>
<tr>
<td>RL0405000</td>
<td>EPDM</td>
<td>16.6</td>
<td>1</td>
<td>3.94, 1.77, 1.61, 100, 45, 41</td>
<td>1.52 lbs, 690 grams</td>
</tr>
</tbody>
</table>

*Body sizes 1¼, 1½ 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)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter (in)</th>
<th>Thread Size** (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL040000B</td>
<td>NBR*</td>
<td>3.8</td>
<td>¼</td>
<td>A (in) 1.46, B (in) 0.69, Hex (in) 0.63, A (mm) 37, B (mm) 17.5, Hex (mm) 16</td>
<td>0.11 lbs, 50 grams</td>
</tr>
<tr>
<td>RL040100B</td>
<td>FKM</td>
<td>5.7</td>
<td>¾</td>
<td>1.97, 0.83, 0.75, 50, 21, 19</td>
<td>0.19 lbs, 85 grams</td>
</tr>
<tr>
<td>RL040200B</td>
<td>EPDM</td>
<td>7.6</td>
<td>1</td>
<td>2.36, 0.98, 0.9, 60, 25, 23</td>
<td>0.31 lbs, 140 grams</td>
</tr>
<tr>
<td>RL040300B</td>
<td>EPDM</td>
<td>10.3</td>
<td>½</td>
<td>2.75, 1.15, 1.06, 70, 29.2, 27</td>
<td>0.47 lbs, 215 grams</td>
</tr>
<tr>
<td>RL040400B</td>
<td>EPDM</td>
<td>14.2</td>
<td>¾</td>
<td>3.38, 1.90, 1.38, 86, 38, 35</td>
<td>1.01 lbs, 460 grams</td>
</tr>
<tr>
<td>RL040500B</td>
<td>EPDM</td>
<td>16.6</td>
<td>1</td>
<td>3.94, 1.77, 1.61, 100, 45, 41</td>
<td>1.52 lbs, 690 grams</td>
</tr>
</tbody>
</table>

*Body sizes 1¼, 1½ 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.
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.

### Physical Characteristics

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Max. Operating Pressure**</th>
<th>Non hazardous liquids &amp; gases Group 1</th>
<th>Non hazardous liquids &amp; gases Group 2</th>
<th>Rated Flow*</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>(bar)</td>
<td>(psi)</td>
</tr>
<tr>
<td>1/4</td>
<td>3.8</td>
<td>400</td>
<td>5,800</td>
<td>400</td>
<td>5,800</td>
</tr>
<tr>
<td>3/8</td>
<td>7.6</td>
<td>400</td>
<td>5,800</td>
<td>400</td>
<td>5,800</td>
</tr>
<tr>
<td>½</td>
<td>10.3</td>
<td>250</td>
<td>3,625</td>
<td>250</td>
<td>3,625</td>
</tr>
<tr>
<td>¾</td>
<td>14.2</td>
<td>250</td>
<td>3,625</td>
<td>250</td>
<td>3,625</td>
</tr>
<tr>
<td>1</td>
<td>16.5</td>
<td>250</td>
<td>3,625</td>
<td>250</td>
<td>3,625</td>
</tr>
<tr>
<td>1¼</td>
<td>20.5</td>
<td>150</td>
<td>2,175</td>
<td>150</td>
<td>2,175</td>
</tr>
<tr>
<td>1½</td>
<td>25.8</td>
<td>150</td>
<td>2,175</td>
<td>150</td>
<td>2,175</td>
</tr>
<tr>
<td>2</td>
<td>34.7</td>
<td>150</td>
<td>2,175</td>
<td>28</td>
<td>405</td>
</tr>
</tbody>
</table>

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

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

### 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 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).

### Applications & Markets

- All industries
- Agriculture
- Construction
- Fluid transfer lines

### Seal Elastomer Data*

<table>
<thead>
<tr>
<th>Seal Elastomer</th>
<th>Max. Operation Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM (Fluorocarbon)*</td>
<td>-20°C to +200°C/ -4°F to +392°F</td>
</tr>
<tr>
<td>EPDM (Ethylene-Propylene)**</td>
<td>-40°C to +150°C / -40°F to +302°F</td>
</tr>
</tbody>
</table>

*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)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FKM</td>
<td>EPDM</td>
<td>BSPP</td>
<td>A (in)</td>
<td>B (in)</td>
</tr>
<tr>
<td>RZ04000V0</td>
<td>¼</td>
<td>3.8</td>
<td>¼</td>
<td>1</td>
<td>1.46</td>
</tr>
<tr>
<td>RZ04010V0</td>
<td>½</td>
<td>5.7</td>
<td>½</td>
<td>1</td>
<td>1.97</td>
</tr>
<tr>
<td>RZ04020V0</td>
<td>¼</td>
<td>7.6</td>
<td>¼</td>
<td>1</td>
<td>2.36</td>
</tr>
<tr>
<td>RZ04030V0</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1</td>
<td>2.76</td>
</tr>
<tr>
<td>RZ04040V0</td>
<td>¾</td>
<td>14.2</td>
<td>¾</td>
<td>1</td>
<td>3.38</td>
</tr>
<tr>
<td>RZ04050V0</td>
<td>1</td>
<td>16.5</td>
<td>1</td>
<td>1</td>
<td>3.94</td>
</tr>
<tr>
<td>RZ04060V0</td>
<td>1¼</td>
<td>20.5</td>
<td>1¼</td>
<td>1</td>
<td>5.12</td>
</tr>
<tr>
<td>RZ04070V0</td>
<td>1½</td>
<td>25.8</td>
<td>1½</td>
<td>1</td>
<td>5.31</td>
</tr>
<tr>
<td>RZ04090V0</td>
<td>2</td>
<td>34.7</td>
<td>2</td>
<td>1</td>
<td>5.90</td>
</tr>
</tbody>
</table>

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

**Across flat dimension.

### Cracking Pressure 1 bar (14.5 psi)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
<th>Nominal Flow Diameter</th>
<th>Thread Size* (Female)</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FKM</td>
<td>EPDM</td>
<td>BSPP</td>
<td>A (in)</td>
<td>B (in)</td>
</tr>
<tr>
<td>RZ04000VB</td>
<td>¼</td>
<td>3.8</td>
<td>¼</td>
<td>1</td>
<td>1.46</td>
</tr>
<tr>
<td>RZ04010VB</td>
<td>½</td>
<td>5.7</td>
<td>½</td>
<td>1</td>
<td>1.97</td>
</tr>
<tr>
<td>RZ04020VB</td>
<td>¼</td>
<td>7.6</td>
<td>¼</td>
<td>1</td>
<td>2.36</td>
</tr>
<tr>
<td>RZ04030VB</td>
<td>½</td>
<td>10.3</td>
<td>½</td>
<td>1</td>
<td>2.76</td>
</tr>
<tr>
<td>RZ04040VB</td>
<td>¾</td>
<td>14.2</td>
<td>¾</td>
<td>1</td>
<td>3.38</td>
</tr>
<tr>
<td>RZ04050VB</td>
<td>1</td>
<td>16.5</td>
<td>1</td>
<td>1</td>
<td>3.94</td>
</tr>
<tr>
<td>RZ04060VB</td>
<td>1¼</td>
<td>20.5</td>
<td>1¼</td>
<td>1</td>
<td>5.12</td>
</tr>
<tr>
<td>RZ04070VB</td>
<td>1½</td>
<td>25.8</td>
<td>1½</td>
<td>1</td>
<td>5.31</td>
</tr>
<tr>
<td>RZ04090VB</td>
<td>2</td>
<td>34.7</td>
<td>2</td>
<td>1</td>
<td>5.90</td>
</tr>
</tbody>
</table>

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

**Across flat dimension.
FD15 Series Oil Sampling Valve

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

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

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

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

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

**Notes**
As required in MIL-V-81940/2-1 this valve’s flow rate is between 100 and 1500 milliliters per minute at pressures from 0–50 psi. (MIL-V-81940/2-1 applies only to pressures from 50–300 psi.)

The 1/4” NPTF version is qualified to MIL-V-81940/2-1 and its performance is representative of the other inlet port configurations listed above. QPL-81940-9 6-5-89
## FD15 Series

**Oil Sampling Valve**

### Dimensions (Male Pipe Thread)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sampling Port</th>
<th>Dimensions</th>
<th>Buna-N Type</th>
<th>Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Hex</th>
<th>Hex</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD15-1000-02</td>
<td>1/8</td>
<td>Male Pipe Thread</td>
<td>1</td>
<td>61.5 (2.42)</td>
<td>25.4 (1.00)</td>
<td>33.0 (1.30)</td>
<td>175 (.69)</td>
<td>9.7 (.38)</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FD15-1000-04</td>
<td>1/4</td>
<td>Male Pipe Thread</td>
<td>1</td>
<td>65.0 (2.56)</td>
<td>25.4 (1.00)</td>
<td>33.0 (1.30)</td>
<td>175 (.69)</td>
<td>9.7 (.38)</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions (Male SAE O-Ring Thread)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sampling Port</th>
<th>Dimensions</th>
<th>Buna-N Type</th>
<th>Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Hex</th>
<th>Hex</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD15-1002-04</td>
<td>7/16</td>
<td>Male SAE O-Ring Thread</td>
<td>2</td>
<td>70.9 (2.79)</td>
<td>25.4 (1.00)</td>
<td>33.0 (1.30)</td>
<td>175 (.69)</td>
<td>9.7 (.38)</td>
<td>14.2 (.56)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions (Male Pipe Thread)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sampling Port</th>
<th>Dimensions</th>
<th>Buna-N Type</th>
<th>Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Hex</th>
<th>Hex</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD15-1026-04</td>
<td>1/4</td>
<td>Male Pipe Thread</td>
<td>3</td>
<td>65.0 (2.56)</td>
<td>25.4 (1.00)</td>
<td>33.0 (1.30)</td>
<td>175 (.69)</td>
<td>9.7 (.38)</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions Male SAE O-Ring Thread)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sampling Port</th>
<th>Dimensions</th>
<th>Buna-N Type</th>
<th>Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Hex</th>
<th>Hex</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD15-1025-04</td>
<td>7/16</td>
<td>Male SAE O-Ring Thread</td>
<td>4</td>
<td>70.9 (2.79)</td>
<td>25.4 (1.00)</td>
<td>33.0 (1.30)</td>
<td>175 (.69)</td>
<td>9.7 (.38)</td>
<td>14.2 (.56)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure 1**

**Figure 2**

**Figure 3**

**Figure 4**
Eaton’s FD90 Series diagnostic coupling is designed to connect and disconnect pressure gauges to hydraulic systems, eliminating the need for permanent gauges. The maximum operating pressure is 7,000 psi.

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>Max. Operating Pressure</th>
<th>Min. Burst Pressure Connected</th>
<th>Vacuum Connected Only</th>
<th>Rated Flow</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(bar)</td>
<td>(psi)</td>
<td>(in./Hg)</td>
<td>(lpm)</td>
<td>(gpm)</td>
<td>cc. max.</td>
</tr>
<tr>
<td>1/4</td>
<td>483</td>
<td>7000</td>
<td>1,931</td>
<td>28</td>
<td>1.89</td>
<td>0.6</td>
</tr>
</tbody>
</table>

**Applications & Markets**

- Diagnostic pressure testing for hydraulic systems
- Standard seal material: High resistance carbon steel with zinc trivalent plating
- Broad range of end configurations for system accessibility
- Self-sealing valve design allows connection and disconnection at 500 psi
- Automatic sleeve for one hand push-to-connect operation
- Flush face valving provides minimal fluid loss and low air inclusion
- Standard seal material: Buna-N

**Product Features**

- **Standard seal material:** Buna-N
- **Diagnostic pressure testing for hydraulic systems**
- **Self-sealing valve design** allows connection and disconnection at 500 psi
- **Automatic sleeve for one hand push-to-connect operation**
- **Flush face valving** provides minimal fluid loss and low air inclusion

**Dimensions (Female Pipe, Valved)**

<table>
<thead>
<tr>
<th>Part Number with Dust Cap Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1034-02-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/8</td>
<td>Female NPT</td>
<td>1</td>
<td>38.6 (1.52)</td>
</tr>
<tr>
<td>FD90-1034-04-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/4</td>
<td>Female NPT</td>
<td>1</td>
<td>38.6 (1.52)</td>
</tr>
<tr>
<td>FD90-1021-02-04</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/8</td>
<td>Female NPT</td>
<td>2</td>
<td>40.1 (1.58)</td>
</tr>
<tr>
<td>FD90-1021-04-04</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/4</td>
<td>Female NPT</td>
<td>2</td>
<td>40.1 (1.58)</td>
</tr>
</tbody>
</table>

**Dimensions (Male SAE O-Ring, Valved)**

<table>
<thead>
<tr>
<th>Part Number with Dust Cap Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1044-03-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>3/8</td>
<td>Male SAE O-Ring</td>
<td>3</td>
<td>34.5 (1.32)</td>
</tr>
<tr>
<td>FD90-1044-04-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>7/16</td>
<td>Male SAE O-Ring</td>
<td>3</td>
<td>34.5 (1.32)</td>
</tr>
<tr>
<td>FD90-1044-05-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/2</td>
<td>Male SAE O-Ring</td>
<td>3</td>
<td>34.5 (1.32)</td>
</tr>
<tr>
<td>FD90-1044-06-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>9/16</td>
<td>Male SAE O-Ring</td>
<td>3</td>
<td>34.5 (1.32)</td>
</tr>
</tbody>
</table>

**Dimensions (Male Pipe, Valved)**

<table>
<thead>
<tr>
<th>Part Number with Dust Cap Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1012-02-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/8</td>
<td>Male NPT</td>
<td>4</td>
<td>40.6 (1.60)</td>
</tr>
<tr>
<td>FD90-1012-04-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/4</td>
<td>Male NPT</td>
<td>4</td>
<td>37.8 (1.49)</td>
</tr>
</tbody>
</table>

---

**Figure 1**

**Figure 2**

**Figure 3**

**Figure 4**
## FD90 Series

**Diagnostic Coupling**

**SAE J1502 Interchange**

---

**Dimensions (Metric Male O-Ring, Valved)**

<table>
<thead>
<tr>
<th>Part Number Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1046-06-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>M14</td>
<td>M14x1.5</td>
<td>5</td>
<td>38.5 (1.52)</td>
<td>-</td>
<td>19.1 (0.75)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1041-04-04</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>7/16</td>
<td>7/16 - 20</td>
<td>2</td>
<td>55.9 (2.20)</td>
<td>25.40 (1.00)</td>
<td>19.1 (0.75)</td>
</tr>
</tbody>
</table>

**Dimensions (Male ORS Bulkhead, Valved)**

<table>
<thead>
<tr>
<th>Part Number Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1206-04-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>9/16</td>
<td>9/16 - 18</td>
<td>6</td>
<td>62.5 (2.46)</td>
<td>20.6 (0.81)</td>
<td>20.6 (0.81)</td>
</tr>
</tbody>
</table>

**Dimensions (Male ORS Bulkhead, Valved)**

<table>
<thead>
<tr>
<th>Part Number Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1061-04-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>9/16</td>
<td>9/16 - 18</td>
<td>7</td>
<td>46.5 (1.79)</td>
<td>22.1 (0.87)</td>
<td>175 (0.69)</td>
</tr>
<tr>
<td>FD90-1061-06-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>11/16</td>
<td>11/16 - 16</td>
<td>7</td>
<td>46.5 (1.83)</td>
<td>23.9 (0.94)</td>
<td>20.6 (0.81)</td>
</tr>
<tr>
<td>FD90-1061-08-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>13/16</td>
<td>13/16 - 16</td>
<td>7</td>
<td>49.0 (1.93)</td>
<td>27.4 (1.08)</td>
<td>23.9 (0.94)</td>
</tr>
</tbody>
</table>

**Dimensions (Male Metric O-Ring, Valved)**

<table>
<thead>
<tr>
<th>Part Number Buna-N</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD90-1090-10-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>M10</td>
<td>M10x1</td>
<td>8</td>
<td>40.1 (1.58)</td>
<td>18.3 (0.72)</td>
<td>—</td>
</tr>
</tbody>
</table>

**Dust Cap for Plug/Male Halves**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>FD90-1040-04-04</td>
</tr>
</tbody>
</table>
Eaton’s FD48 Series coupling is poppet style quick disconnect coupling designed to interchange with Parker Bruning SM-250 couplings where excellent high and low pressure sealing is required. The FD48 operates with pressures up to 3,000 psi.

**Product Features**
- Self-sealing poppet valves provide excellent high and low pressure sealing
- PUSH-PULL™ ball latch design allows quick and easy connection and disconnection of fluid lines
- Heat-treated and plated steel for wear and corrosion resistance
- Standard seal material: Buna-N
- Standard seal material: High resistance carbon steel with zinc trivalent plating

**Applications & Markets**
- Hydraulic and fluid transfer
- Agricultural equipment

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Body Size (in)</th>
<th>Max. Operating Pressure (bar)</th>
<th>Min. Burst Pressure Connected (bar)</th>
<th>Vacuum Connected Only (in./Hg)</th>
<th>Rated Flow (lpm)</th>
<th>Air Inclusion (cc. max.)</th>
<th>Fluid Loss (cc.max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>210</td>
<td>840</td>
<td>12,000</td>
<td>28</td>
<td>11</td>
<td>3</td>
</tr>
</tbody>
</table>

**Dimensions (Female NPT, Valved)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread</th>
<th>Type</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD48-1002-04-04</td>
<td>Plug/Male</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4-18</td>
<td>Female NPT</td>
<td>36.6 (1.45)</td>
<td>-</td>
<td>-</td>
<td>19.0 (1.75)</td>
</tr>
<tr>
<td>FD48-1001-04-04</td>
<td>Socket/Female</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4-18</td>
<td>Female NPT</td>
<td>51.1 (2.01)</td>
<td>26.9 (1.06)</td>
<td>20.6 (1.81)</td>
<td></td>
</tr>
</tbody>
</table>

**Flow Data**

**Pressure Drop Versus Flow Graph**

Gallons Per Minute Flow
Test Fluid: MIL-H-5606 Oil at 100°F

**Dust Cap/Plug**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD48-1042-04*</td>
<td>1/4</td>
</tr>
</tbody>
</table>

*Fit both plug/male and socket/female halves
K8000 Series

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

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

Physical Characteristics

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow</th>
<th>Air Inclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(bar)</td>
<td>(psi)</td>
<td>(bar)</td>
</tr>
<tr>
<td>8</td>
<td>250</td>
<td>3,625</td>
<td>12</td>
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Applications & Markets
- Ag and Forestry Equipment

Flow Data

<table>
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<tr>
<th>DN/ND</th>
<th>Socket and Dust Plug</th>
<th>Socket Dust Plug Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig.</th>
<th>Dimensions</th>
<th>Across Flats</th>
<th>Hex</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E</td>
<td>F</td>
<td>G</td>
</tr>
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<td>8</td>
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<td>KA0812700</td>
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<td>KA082413</td>
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<td>KP0812400</td>
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<td>23</td>
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<tr>
<td></td>
<td>KA0802412</td>
<td>Plug/Male</td>
<td>G 1/2”</td>
<td>-</td>
<td>2</td>
<td>48</td>
<td>36</td>
<td>15</td>
</tr>
</tbody>
</table>

Figure 1

Figure 2
Eaton's Q9000 Series is a brake away coupling used on agriculture and forestry vehicles.

**Product Features**

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

**Physical Characteristics**

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow</th>
<th>Air Inclusion</th>
</tr>
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<td></td>
<td>(bar)</td>
<td>(psi)</td>
<td>(bar)</td>
</tr>
<tr>
<td>8</td>
<td>150</td>
<td>2,175</td>
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</tbody>
</table>

**Applications & Markets**

- Trailer Brake Circuits on Ag and Forestry Vehicles

**Flow Data**

![Flow Data Diagram]

**Figures**

![Figure 1](image1.png)

![Figure 2](image2.png)

**Socket and Dust Plug Dimensions**

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Socket and Dust Plug</th>
<th>Socket Dust Plug Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig. A</th>
<th>Dimensions B</th>
<th>C</th>
<th>Hex</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>QA0932118</td>
<td>QA0912100</td>
<td>Socket/Female</td>
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<td>1</td>
<td>55.5</td>
<td>44</td>
<td>30.2</td>
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**Plug and Dust Cap Dimensions**

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<th>Plug and Dust Cap</th>
<th>Plug Dust Cap Only</th>
<th>Coupling Type</th>
<th>Connection</th>
<th>Fig. D</th>
<th>Dimensions E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>Hex 1</th>
<th>Hex 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>8</td>
<td>QA0932212</td>
<td>QA0912200</td>
<td>Plug/Male</td>
<td>M18X150</td>
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<td>49</td>
<td>30</td>
<td>21</td>
<td>M18x1,50</td>
<td>5</td>
<td>34</td>
<td>32</td>
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<tr>
<td></td>
<td>QA0932213</td>
<td>QP0912200</td>
<td>Plug/Male</td>
<td>M20X150</td>
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<td>23</td>
<td>M20x1,50</td>
<td>5</td>
<td>36</td>
<td>32</td>
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</table>

![Figure Captions](image3.png)
H55000 Series

Eaton’s H55000 series hydraulic ball valved quick disconnect coupling is ideal for agriculture and forestry equipment.

Product Features
- May interchange with other makes of couplings with same profile
- Pull-to-Connect double shut off valve
- Stainless steel ball valves and springs
- Standard body material: Zinc trivalent plated steel
- Standard seal: NBR

Physical Characteristics

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>DN/ND</th>
<th>Max. Operating Pressure</th>
<th>Rated Flow</th>
<th>Fluid Loss</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>(bar)</td>
<td>(psi)</td>
<td>(lpm)</td>
<td>(gpm)</td>
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<tr>
<td>3/8&quot;</td>
<td>7.4</td>
<td>250</td>
<td>3,625</td>
<td>19</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>8.9</td>
<td>250</td>
<td>3,625</td>
<td>28</td>
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Applications & Markets
- Hydraulic Circuits and Equipment
- Forestry
- Agriculture
- Iron and Steel Industry

Flow Data

![Flow Data Diagram]

Figure 1

Figure 2

<table>
<thead>
<tr>
<th>DN/ND</th>
<th>Socket/Female</th>
<th>Socket Dust Plug</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions A</th>
<th>B</th>
<th>C</th>
<th>Hex</th>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>7.4</td>
<td>HA5502100</td>
<td>HD0512100*</td>
<td>Socket/Female</td>
<td>3/8&quot;</td>
<td>G 3/8</td>
<td>1</td>
<td>63</td>
<td>34</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td>8.9</td>
<td>HA5503100</td>
<td>HD0513100*</td>
<td>Socket/Female</td>
<td>1/2&quot;</td>
<td>G 1/2</td>
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<td>70</td>
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<table>
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<tr>
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<th>Plug/Male</th>
<th>Plug Dust Cap</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Thread</th>
<th>Fig.</th>
<th>Dimensions D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Hex</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>7.4</td>
<td>HA5502200</td>
<td>HD0512200*</td>
<td>Plug/Male</td>
<td>3/8&quot;</td>
<td>G 3/8</td>
<td>2</td>
<td>42.5</td>
<td>19</td>
<td>27</td>
<td>22.5</td>
<td>24</td>
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<td>8.9</td>
<td>HA5503200</td>
<td>HD0513200*</td>
<td>Plug/Male</td>
<td>1/2&quot;</td>
<td>G 1/2</td>
<td>2</td>
<td>48.0</td>
<td>20.6</td>
<td>30</td>
<td>26.5</td>
<td>27</td>
</tr>
</tbody>
</table>

*Dural/Aluminum
**PVC
Eaton’s 5400 Series low air inclusion product line is designed for air conditioning, refrigerant, gaseous and fluid transfer applications.

**Product Features**
- Brazed or threaded end connections for versatility of installation on tubing or hose
- Tubular valve construction for low fluid loss and air inclusion
- Thread together design allows connection and disconnection against pressure
- Lock washer and jam nut standard for optional bulkhead mounting
- Standard seal material: Neoprene
- Guardian Seal™ plating for excellent corrosion resistance

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>Max. Operating Pressure Connected</th>
<th>Min. Burst Pressure Connected</th>
<th>Max. Operating Pressure Disconnected Male Half</th>
<th>Female Half</th>
<th>Vacuum Connected Only</th>
<th>Rated Flow</th>
<th>Air Inclusion</th>
<th>Fluid Loss</th>
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<tr>
<td>(in)</td>
<td>(bar) (psi)</td>
<td>(bar) (psi)</td>
<td>(bar) (psi)</td>
<td>(bar) (psi)</td>
<td>(in./Hg)</td>
<td>(lpm) (gpm)</td>
<td>cc. max.</td>
<td>cc. max.</td>
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<tr>
<td>1/4</td>
<td>207 3,000</td>
<td>621 9,000</td>
<td>172 2,500</td>
<td>52 750</td>
<td>28</td>
<td>8 2</td>
<td>10 .05</td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>121 1,750</td>
<td>359 5,200</td>
<td>121 1,750</td>
<td>52 750</td>
<td>28</td>
<td>53 14</td>
<td>10 .10</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>48 700</td>
<td>145 2,100</td>
<td>48 700</td>
<td>45 650</td>
<td>28</td>
<td>132 35</td>
<td>30 .10</td>
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<tr>
<td>1</td>
<td>48 700</td>
<td>145 2,100</td>
<td>48 700</td>
<td>21 300</td>
<td>28</td>
<td>284 75</td>
<td>50 .20</td>
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**Applications & Markets**
- Mobile air conditioning and refrigerant

**Flow Data**

![Flow Data Graph]

Air flow rate at 100 PSI (6.89 bar) Inlet Pressure
### Dimensions – No Adapter

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Type</th>
<th>Dimensions A</th>
<th>B</th>
<th>Hex</th>
<th>Hex</th>
<th>Hex</th>
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<td>5400-S2-4</td>
<td>Male</td>
<td>1/4</td>
<td>No Adapter</td>
<td>1</td>
<td>27.4 (1.08)</td>
<td>21.1 (.83)</td>
<td>19 (.75)</td>
<td>-</td>
</tr>
<tr>
<td>5400-S5-4</td>
<td>Female</td>
<td>1/4</td>
<td>No Adapter</td>
<td>2</td>
<td>33.3 (1.31)</td>
<td>21.1 (.83)</td>
<td>16.0 (.63)</td>
<td>19 (.75)</td>
</tr>
<tr>
<td>5400-S2-8</td>
<td>Male</td>
<td>1/2</td>
<td>No Adapter</td>
<td>1</td>
<td>34.8 (1.37)</td>
<td>32.0 (1.26)</td>
<td>29.0 (1.14)</td>
<td>-</td>
</tr>
<tr>
<td>5400-S5-8</td>
<td>Female</td>
<td>1/2</td>
<td>No Adapter</td>
<td>2</td>
<td>40.6 (1.60)</td>
<td>33.0 (1.30)</td>
<td>26.0 (1.02)</td>
<td>30.0 (1.18)</td>
</tr>
<tr>
<td>5400-S2-12</td>
<td>Male</td>
<td>3/4</td>
<td>No Adapter</td>
<td>1</td>
<td>44.2 (1.74)</td>
<td>46.4 (1.83)</td>
<td>41.0 (1.61)</td>
<td>-</td>
</tr>
<tr>
<td>5400-S5-12</td>
<td>Female</td>
<td>3/4</td>
<td>No Adapter</td>
<td>2</td>
<td>55.1 (2.17)</td>
<td>45.0 (1.77)</td>
<td>35.0 (1.38)</td>
<td>41.0 (1.61)</td>
</tr>
<tr>
<td>5400-S2-16</td>
<td>Male</td>
<td>1</td>
<td>No Adapter</td>
<td>1</td>
<td>46.5 (1.83)</td>
<td>53.0 (2.09)</td>
<td>48.0 (1.89)</td>
<td>-</td>
</tr>
<tr>
<td>5400-S5-16</td>
<td>Female</td>
<td>1</td>
<td>No Adapter</td>
<td>2</td>
<td>61.1 (2.41)</td>
<td>56.0 (2.20)</td>
<td>45.0 (1.77)</td>
<td>50.0 (1.97)</td>
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</table>

Above items must be ordered at the component level - see page 148.

### Dimensions – SAE 37° (JIC) (Dimensional reference only)

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<th>Part Number</th>
<th>Coupling Type</th>
<th>Body Size</th>
<th>Port Size</th>
<th>Thread Type</th>
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<td>7/16</td>
<td>7/16-20</td>
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<td>Female</td>
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<td>7/16</td>
<td>7/16-20</td>
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<td>7/16</td>
<td>7/16-20</td>
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<td>9/16</td>
<td>9/16-18</td>
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<td>48.0 (1.89)</td>
<td>21.1 (.83)</td>
<td>19 (.75)</td>
</tr>
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<td>5410-S14-6-4*</td>
<td>Female</td>
<td>1/4</td>
<td>9/16</td>
<td>9/16-18</td>
<td>SAE 37° (JIC)</td>
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<td>9/16</td>
<td>9/16-18</td>
<td>SAE 37° (JIC)</td>
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<td>55.4 (2.18)</td>
<td>31.8 (1.25)</td>
<td>29 (1.14)</td>
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<tr>
<td>5410-S14-6-8*</td>
<td>Female</td>
<td>1/2</td>
<td>9/16</td>
<td>9/16-18</td>
<td>SAE 37° (JIC)</td>
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<td>61.7 (2.43)</td>
<td>33.3 (1.31)</td>
<td>26.0 (1.02)</td>
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<td>Complete</td>
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<td>9/16</td>
<td>9/16-18</td>
<td>SAE 37° (JIC)</td>
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<td>107.4 (4.23)</td>
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<td>-</td>
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<td>3/4</td>
<td>3/4-16</td>
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<td>57.9 (2.28)</td>
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<td>29 (1.14)</td>
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<td>3/4</td>
<td>3/4-16</td>
<td>SAE 37° (JIC)</td>
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<td>64.3 (2.53)</td>
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<tr>
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<td>Complete</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4-16</td>
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<td>5</td>
<td>112.8 (4.44)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5410-S17-10-12*</td>
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<td>3/4</td>
<td>7/8</td>
<td>7/8-14</td>
<td>SAE 37° (JIC)</td>
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<td>69.9 (2.75)</td>
<td>46.5 (1.83)</td>
<td>41 (1.62)</td>
</tr>
<tr>
<td>5410-S14-10-12*</td>
<td>Female</td>
<td>3/4</td>
<td>7/8</td>
<td>7/8-14</td>
<td>SAE 37° (JIC)</td>
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<td>80.3 (3.16)</td>
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<td>35 (1.38)</td>
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<td>1 1/16</td>
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<td>1 1/16-12</td>
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<td>1 1/16</td>
<td>1 1/16-12</td>
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Above items must be ordered at the component level - see page 148.
5400 Series
Low Air Inclusion Refrigerant

Dimensions – Braze Tubing Adapter (Dimensional reference only)

**Part Number**
**Neoprene**
**Coupling**
**Body**
**Tube O.D.**

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*Couplings must be ordered by components as shown on page 147.

**Dust Caps and Dust Plugs**

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**Adapter SAE 37° (JIC)**

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**Adapter – Braze**

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**Hose Fitting SAE 100R5†**

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†Additional dash styles available.
## 5400 Series

### Low Air Inclusion Refrigerant

For assemblies, order by components as shown by base number and dash (-) size below. Example, if a 5401-S14-10-12 is required, order as components, (1) 5400-S5-12, (1) 202208-10-12B Adapter and (1) 22546-23 O-Ring.

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<td>5410-S17-6-8</td>
<td>-8</td>
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<td>-17</td>
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</table>
5400 Series
Low Air Inclusion Refrigerant

Assembly Instructions

Component Part Numbers

1. After tubing or hose has been connected to adapters and on adapters, install O-Rings and on adapters. Be sure O-Rings are not twisted.

2. Oil O-Rings and liberally with system fluid to prevent them from scuffing and tearing when coupling body is threaded on adapter.

3. S2 Half—Lubricate poppet face with system fluid. Insert poppet valve assembly into body. Tighten body on adapter. After body and adapter make metal-to-metal contact, tighten by rotating body 1/8” with respect to adapter or torque per table value.

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

Typical Male Coupling Half (S2)
Assembly Instructions

Steps:

1. After tubing or hose has been connected to adapters and on adapters, install O-Rings and on adapters. Be sure O-Rings are not twisted.

2. Oil O-Rings and liberally with system fluid to prevent them from scuffing and tearing when coupling body is threaded on adapter.

3. S2 Half—Lubricate poppet face with system fluid. Insert poppet valve assembly into body. Tighten body on adapter. After body and adapter make metal-to-metal contact, tighten by rotating body 1/8” with respect to adapter or torque per table value.

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

Typical Female Coupling Half (S5)
Assembly Instructions

Steps:

1. After tubing or hose has been connected to adapters and on adapters, install O-Rings and on adapters. Be sure O-Rings are not twisted.

2. Oil O-Rings and liberally with system fluid to prevent them from scuffing and tearing when coupling body is threaded on adapter.

3. S2 Half—Lubricate poppet face with system fluid. Insert poppet valve assembly into body. Tighten body on adapter. After body and adapter make metal-to-metal contact, tighten by rotating body 1/8” with respect to adapter or torque per table value.

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

**Maximum Bulkhead Thickness**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Lock Washer Installed</th>
<th>Lock Washer Not Used</th>
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</thead>
<tbody>
<tr>
<td>1/4</td>
<td>.206</td>
<td>.256</td>
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<tr>
<td>1/2</td>
<td>.136</td>
<td>.203</td>
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<tr>
<td>3/4</td>
<td>.232</td>
<td>.292</td>
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<tr>
<td>1</td>
<td>.101</td>
<td>.161</td>
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</table>

**Torque Values**

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

<table>
<thead>
<tr>
<th>Adapter to Body</th>
<th>Adapter to Body</th>
<th>Adapter to Body</th>
<th>Adapter to Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dash Size</td>
<td>Braze Type or Aluminum</td>
<td>Non-braze Type Steel or Brass</td>
<td>S2 Half to S5 Half</td>
</tr>
<tr>
<td>–4</td>
<td>6–8</td>
<td>12–15</td>
<td>10–12</td>
</tr>
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<td>–8</td>
<td>15–20</td>
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<tr>
<td>–16</td>
<td>50–60</td>
<td>55–65</td>
<td>65–67</td>
</tr>
</tbody>
</table>

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

---

**Component Part Numbers**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Dash Size O.D. Tube Size →</th>
<th>Line Ref.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/4”–3/8” –4</td>
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<tr>
<td>2</td>
<td>1/4”–5/8” –8</td>
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</tr>
<tr>
<td>3</td>
<td>5/8”–7/8” –12</td>
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</tr>
<tr>
<td>4</td>
<td>7/8”–13/8” –16</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
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<tr>
<td>9</td>
<td>Union Nut and Body Assembly</td>
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<td>Valve and Sleeve Assembly</td>
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<td>11</td>
<td>Tubing Adapter</td>
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