

Eaton Hansen™ HK Series
ISO 7241/1 Series B Interchange





Powering Business Worldwide

The Power of Eaton



Char-Lynn®



Walterscheid®

Synflex®



1911

Airflex®

1968



1971

VICKERS
HYDROKRAFT™

1999

Aeroquip

2000

VICKERS

HYDROKRAFT™

BOSTON



WEATHERHEAD

2002

WALTERSCHEID

2004

2005

2006

2007

2008

2010

2011

Winner®



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

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

That's the power of Eaton.

EATON
Powering Business Worldwide

Serving eight key segments - sharing one focus



Alternative Energy

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



Discrete Manufacturing

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



Oil & Gas

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



Processing

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



Agriculture & Forestry

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



Commercial Vehicles

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



Material Handling

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



Construction & Mining

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

Eaton is a leading diversified power management company

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

Understanding and helping our customers succeed

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

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

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

Our strength is global reach with local responsiveness and support

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

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

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

Custom Design Capability – One Application at a Time

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

How to Order

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

Dimensions

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

Coupling Identification

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

Caution:

The user should carefully observe the precautions listed in this catalog. These include selection of seals and body materials for fluid compatibility and recommendations on the selection of quick disconnect couplings. In addition, care should be taken not to exceed the maximum operating pressures listed for each coupling size and type shown in the physical characteristics table for each coupling.

Because of possible variations in machining tolerances, quality control, inspection and quality assurance, Eaton coupling halves should not be used with coupling halves supplied by other manufacturers except where such use is approved for a particular coupling as noted in this catalog or specifically by Eaton.

Example: 4HP26 - VAA - SL - 143

How to build a socket or plug part number with options:

Standard Part Number from Part Number Tables

NV = No Valve¹
VAA = Valve Actuator Assembly²
VB = Bleeder Valve (Plugs Only)³
SL = Sleeve Lock (Sockets Only)

Seal Material:
115 = PTFE⁴
118 = Neoprene
143 = Fluorocarbon
146 = Buna-N⁵
192 = EPDM⁶
235 = Kalrez®
236 = EPDM (350°F+ Steam)⁶

Notes:

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

Safety Information 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, metals, etc.) are compatible with the fluid being conveyed. Failure to do so may result in high speed fluid discharge and/or leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful.
- 2.3 Temperature.** Ensure that the maximum operating temperature of the system or equipment does not exceed the rated operating temperature of the Eaton coupling product (including seals) or rupture may result.
- 2.4 Coupling Size.** Use properly sized couplings such that there is not a large pressure drop across them thus avoiding system damage due to excessive heat generation or failure of internal components.
- 2.5 Sleeve Lock.** Use sleeve locks or threaded couplings where there is the possibility of accidental disconnection. Failure to utilize sleeve locks or threaded couplings in these applications may result in hose whip, expelled components, high speed fluid discharge, system damage, or leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful.

2.6 Connect or Disconnect Under Pressure.

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

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

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

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

3.0 Installation of Eaton Couplings.

- 3.1 Inspection of Product.** Prior to installation, ensure that the Eaton product meets all of the requirements of the system and/or equipment it is to be used on. Ensure you have the correct part number, function test the coupling by connecting it with a mating half. The function test should result in smooth, non-binding operation or premature failure may result.
- 3.2 Cleanliness.** Use end caps and plugs to reduce the risk of system contamination or damage to critical sealing surfaces. Failure to do so may result in leakage of fluids which may be flammable, toxic, at extreme temperatures, or otherwise harmful. Caps and plugs are not a secondary seal unless explicitly noted.
- 3.3 Location.** Place Eaton couplings in a safe location such as not to expose the user to personal injury (slippage, tripping, falling, etc.) during installation, connection, disconnection and maintenance.
- 4.0 Product Maintenance.** A maintenance schedule should be put in place to ensure that Eaton couplings are functioning properly. Eaton is not responsible for product failures resulting from modification or improper maintenance.
- 4.1 Inspection.** Visually inspect to ensure that there is no leakage, cracked components, corrosion build-up, contamination build-up, wear, etc. If any abnormality is encountered, the coupling should be replaced immediately.

Fluid Compatibility

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

How to Use the Chart

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

This chart is intended for reference use only. The information in this chart pertains strictly to material compatibility and is not intended to be used as an application guide.

E=Excellent

G=Good

C=Conditional

U=Unsatisfactory

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

Seal Elastomer Data*

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

*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".

| Fluid | Seals | | | | Metal | | | |
|----------------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
| Aluminum Sulfate, 10% aq | E | E | E | E | U | C | E | C |
| Alums, 10% aq | E | E | E | E | U | C | E | C |
| Ammonia, Cold | E | E | E | U | E | U | E | E |
| Ammonia, Hot | U | G | G | U | E | U | E | E |
| Ammonia, Anhydrous | G | G | E | U | E | U | E | E |
| Ammonia, Aqueous | E | E | E | U | E | U | E | E |
| Ammonium Carbonate, 10% aq | U | E | E | U | C | U | C | C |
| Ammonium Chloride, 10% aq | E | E | E | U | U | U | C | U |
| Ammonium Hydroxide, 10% aq | C | C | E | C | G | U | C | C |
| Ammonium Nitrate, 10% aq | E | G | E | U | G | U | G | G |
| Ammonium Phosphate, 10% aq | E | E | E | – | U | C | G | U |
| Ammonium Sulfate/Sulfide, 10% aq | E | E | E | U | U | U | G | U |
| Amyl Acetate | U | U | G | U | E | E | E | E |
| Amyl Alcohol | G | C | E | G | G | G | E | U |
| Aniline, Aniline Oil | U | U | G | U | E | U | E | G |

Fluid Compatibility

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

| Fluid | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
|------------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| | Seals | Metal | | | | | | |
| Aniline Dyes | U | G | G | G | U | C | G | C |
| Asphalt, < 200°F | G | C | U | E | E | G | E | C |
| IRM 901 Oil | E | E | C | E | E | E | E | E |
| IRM 902 Oil | E | G | U | E | E | E | E | E |
| IRM 903 Oil | E | C | U | E | E | E | E | E |
| Automatic Trans. Fluid | E | C | U | E | E | E | E | E |
| Barium Chloride, 10% aq | E | E | E | E | U | G | G | G |
| Barium Hydroxide, 105 aq | E | E | E | E | G | U | G | U |
| Barium Sulfide, 10% aq | E | E | E | E | C | U | G | U |
| Benzene, Benzol | U | U | U | E | G | E | E | G |
| Benzoic Acid | U | U | U | E | U | G | G | G |
| Benzyl Alcohol | U | G | G | E | E | G | E | G |
| BioDiesel (<B20) | G | C | U | E | | | | |
| BioDiesel (>B20) | G | C | U | E | | | | |
| Black Sulfate Liquor | C | C | C | E | E | C | E | U |
| Blast Furnace Gas | U | U | U | E | E | C | E | U |
| Borax, 10% aq | G | G | E | E | E | E | E | G |
| Boric Acid, 10% aq | G | G | G | E | U | G | C | C |
| Brine | E | G | E | E | U | G | G | U |
| Bromine, Dry | U | U | U | E | U | C | U | C |
| Butane | E | C | U | E | E | E | E | E |
| Butyl Acetate | U | U | G | U | E | E | E | E |
| Butyl Alcohol | E | E | G | E | G | G | G | G |
| Butyl Cellosolve | U | U | G | U | E | E | E | E |
| Butylene (Butene) | C | U | U | E | E | E | E | E |
| Butyl Stearate | G | U | U | E | G | G | G | G |
| Butyraldehyde | U | U | G | U | E | E | E | E |
| Calcium Acetate, 10% aq | G | G | E | U | G | G | G | C |
| Calcium Bisulfate, 10% aq | E | E | U | E | U | C | C | U |
| Calcium Chloride, 10% aq | E | E | E | E | G | G | G | C |
| Calcium Hydroxide, 10% aq | E | E | E | E | G | G | G | U |
| Calcium Hypochlorite, 10% aq | U | U | E | E | U | G | C | U |
| Calcium Nitrate, 10% aq | E | E | E | E | G | G | G | G |
| Carbitol | G | G | G | G | E | E | E | E |
| Carboxlic Acid (Phenol) | U | U | G | E | U | E | E | - |
| Carbonic Acid | G | E | E | E | U | C | E | G |
| Carbon Dioxide, Dry Gas | G | G | E | E | E | E | E | E |
| Carbon Disulfide | U | U | U | E | G | G | G | E |
| Carbon Monoxide | G | G | E | E | E | E | E | E |
| Carbon Tetrachloride | U | U | U | E | U | G | G | U |
| Castor Oil | E | E | G | E | E | E | E | E |
| Cellosolve Acetate | U | U | G | U | U | U | E | G |
| China Wood Oil (Tung Oil) | G | G | U | E | E | G | E | E |
| Chlorine Gas, Dry | U | U | U | G | C | C | C | C |
| Chloroacetic Acid | U | U | G | U | U | U | U | U |
| Chloroacetone | U | U | E | U | G | G | G | U |
| Chlorobenzene | U | U | U | G | G | G | G | G |
| Chloroform | U | U | U | E | G | G | G | G |
| O-Chlorophenol | U | U | U | E | G | G | G | U |
| Chlosulfonic Acid | U | U | U | U | G | U | G | G |
| Chrome Plating Solution | U | U | G | E | C | U | U | U |

| Fluid | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
|---------------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| | Seals | Metal | | | | | | |
| Chromic Acid | U | U | C | E | C | U | U | U |
| Citric Acid | E | E | E | E | C | C | C | C |
| Coke Oven Gas | U | U | U | E | E | C | E | U |
| Copper Chloride, 10% aq | E | E | E | E | U | U | U | U |
| Copper Cyanide, 10% aq | E | E | E | E | E | U | G | U |
| Copper Sulfate, 10% aq | E | E | E | E | U | C | G | U |
| Cotton Seed Oil | E | G | C | E | E | E | E | E |
| Creosote (Coal Tar) | G | C | U | E | E | C | E | E |
| Crude Oil | E | G | U | E | G | U | G | U |
| Cyclohexanol | E | G | U | E | E | E | C | C |
| Cyclohexanone | U | U | G | U | E | E | E | C |
| Detergent/Water Solution | E | E | E | E | G | E | E | E |
| Diacetone Alchohol (Acetol) | U | U | E | U | E | E | E | E |
| Dibenzyl Ether | U | U | G | U | G | G | G | G |
| Diesel Oil | E | C | U | E | E | E | E | E |
| Diethylamine | G | G | G | U | E | U | E | - |
| Diocyl Phthalate (DOP) | U | U | G | G | E | E | E | E |
| DOT #3 / #4 Brake fluid | C | U | E | U | E | C | E | E |
| Dowtherm A&E | U | U | U | E | G | U | E | E |
| Ethyl Alcohol (Ethanol) | E | E | E | E | E | E | E | G |
| Ethyl Acetate | U | U | G | U | E | E | E | E |
| Ethyl Benzene | U | U | U | E | E | G | G | G |
| Ethyl Cellulose | G | G | G | U | E | G | G | G |
| Ethyl Chloride | U | U | U | E | E | E | E | G |
| Ethylene Dichloride | U | U | U | G | G | C | G | G |
| Ethylene Glycol | E | E | E | E | U | G | E | E |
| Ferric Chloride, 10% aq | E | G | E | E | U | U | U | U |
| Ferric Nitrate, 10% aq | E | E | E | E | U | U | G | U |
| Ferric Sulfate, 10% aq | G | G | G | E | U | U | E | U |
| Formaldehyde | C | C | G | G | E | E | E | G |
| Formic Acid | C | G | E | U | U | C | C | C |
| Fuel Oil | E | C | U | E | E | E | E | E |
| Furfural | C | C | G | U | G | G | G | G |
| Gallic Acid, Solution | G | G | G | E | U | - | G | C |
| Gasoline | E | U | U | E | E | E | E | E |
| Gasohol | G | U | U | E | E | E | E | G |
| Glycerine/Glycerol | E | E | E | E | E | G | E | E |
| Green Sulfate Liquor | G | G | E | E | U | U | E | U |
| Helium(1) | E | E | E | E | E | E | E | E |
| Heptane | E | G | U | E | E | E | E | E |
| Hexaldehyde | U | G | G | U | G | G | E | E |
| Hexane | E | G | U | E | E | E | E | E |
| Hydraulic Oils, petroleum based | G | C | U | E | E | E | E | E |
| Ester Blend | E | U | U | E | E | E | E | E |
| Phos. Ester/Petroleum Blend | U | U | U | C | E | E | E | E |
| Silicone Oils | E | E | E | E | E | E | E | E |
| Straight Petroleum Base | E | C | U | E | E | E | E | E |
| Straight Phosphate Ester | U | U | G | C | E | E | E | E |
| Water Glycol | E | E | E | E | E | E | E | G |
| Water Petroleum Emulsion | E | G | U | E | C | E | E | G |
| Hydrobromic Acid | U | U | E | E | E | U | E | E |

Fluid Compatibility

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

| Fluid | Seals | | | | Metal | | | |
|-----------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
| Hydrochloric Acid, Cold | U | U | G | E | U | U | U | U |
| Hydrocyanic Acid | C | C | E | E | E | E | G | E |
| Hydrofluoric Acid | U | U | C | U | U | U | U | U |
| Hydrofluosilic Acid | G | G | E | E | U | U | U | U |
| Hydrogen | E | E | E | E | E | E | E | E |
| Hydrogen Peroxide | G | G | G | E | U | U | G | E |
| Hydrogen Sulfide, Dry | U | G | E | U | E | G | G | G |
| Isocyanate | U | U | G | E | G | — | G | — |
| Iso Octane | E | G | U | E | E | E | E | E |
| Isopropyl Acetate | U | U | G | U | E | — | E | E |
| Isopropyl Alcohol | G | G | E | E | E | E | E | G |
| Isopropyl Ether | G | U | U | U | G | G | G | — |
| JP-4, JP-5 | E | U | U | E | E | E | E | E |
| Kerosene | E | U | U | E | E | E | E | E |
| Lacquer/Lacquer Solvents | U | U | U | U | U | E | E | E |
| Lime Sulfur | U | E | E | E | G | U | G | — |
| Linseed Oil | E | G | U | E | E | E | E | E |
| LPG | E | G | U | E | E | E | E | E |
| Magnesium Chloride, 10% aq | E | E | E | E | E | C | C | G |
| Magnesium Hydroxide, 10% aq | G | G | E | E | E | G | E | G |
| Magnesium Sulfate, 10% aq | E | E | E | E | E | E | E | E |
| Maleic Acid | U | U | U | E | E | G | G | G |
| Maleic Anhydride | U | U | U | E | G | U | E | G |
| Malic Acid | G | G | U | G | U | — | E | G |
| Mercuric Chloride | E | E | E | E | U | U | U | U |
| Mercury | E | E | E | E | E | U | E | U |
| Methanol | G | G | E | U | G | G | E | C |
| Methyl Bromide | G | U | U | E | E | E | G | U |
| Methyl Chloride | U | U | U | E | E | E | E | U |
| Methyl Butyl Ketone | U | U | E | U | E | E | E | — |
| Methyl Ethyl Ketone | U | U | E | U | G | G | G | G |
| Methylene Chloride | U | U | U | G | G | G | G | G |
| Methyl Isobutyl Ketone | U | U | U | U | G | G | G | G |
| Methyl Isopropyl Ketone | U | U | U | U | G | G | G | G |
| Methyl Salicylate | U | U | C | U | E | G | G | E |
| MIL-L-2104 | E | G | U | E | E | E | E | — |
| MIL-H-5606 | E | G | U | E | E | E | E | E |
| MIL-H-6083 | E | E | U | E | E | E | E | — |
| MIL-L-7808 | G | U | U | E | G | G | E | — |
| MIL-L-23699 | G | U | U | E | E | E | E | E |
| MIL-H-46170 | E | G | U | E | E | E | E | — |
| MIL-H-83282 | E | U | U | E | E | E | E | — |
| Mineral Oils | E | C | U | E | E | E | E | E |
| Naphtha | C | U | U | E | — | — | — | — |
| Naphthalene | U | U | U | E | E | G | E | G |
| Naphthenic Acid | C | U | U | E | — | G | E | G |
| Natural Gas | E | E | U | E | G | G | G | G |
| Nickel Acetate, 10% aq | C | C | E | G | G | C | E | G |
| Nickel Chloride, 10% aq | E | G | E | E | U | U | G | U |
| Nickel Sulfate, 10% aq | E | E | E | E | U | G | G | U |
| Nitric Acid, to 10% | U | U | U | E | U | U | E | U |

| Fluid | Seals | | | | Metal | | | |
|-------------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
| Nitric Acid, over 10% | U | U | U | G | U | U | E | C |
| Nitrobenzene | U | U | U | G | E | G | E | E |
| Nitrogen | E | E | E | E | E | E | E | E |
| Octyl Alcohol | E | E | E | E | E | E | E | E |
| Oleic Acid | U | U | C | G | C | E | G | C |
| Oleum, fuming sulfuric acid | U | U | U | E | E | E | E | E |
| Ortho-Dichlorobenzene | U | U | U | E | G | G | G | G |
| Oxalic Acid, 10% aq | G | G | E | E | U | C | C | C |
| Oxygen | — | — | E | E | G | G | G | G |
| Palmitic Acid | E | G | G | E | G | — | E | G |
| Para-Dichlorobenzene | U | U | U | E | G | G | G | G |
| Pentane | E | E | U | E | G | G | G | E |
| Perchloric Acid | E | G | G | E | U | U | U | U |
| Perchloroethylene | U | U | U | E | C | G | G | G |
| Petroleum Base Oils | E | G | U | E | E | E | E | E |
| Phenol (Carbolic Acid) | U | U | G | E | U | E | E | E |
| Phosphate Ester | U | U | G | C | E | E | E | E |
| Phosphoric Acid 20% | U | U | G | E | U | E | U | C |
| Phosphorous Trichloride | U | U | E | E | C | U | C | E |
| Potassium Acetate, 10% aq | G | G | E | U | C | G | C | U |
| Potassium Chloride, 10% aq | E | E | E | E | E | C | E | U |
| Potassium Cyanide, 10% aq | E | E | E | E | C | U | G | U |
| Potassium Dichromate, 10% aq | E | E | E | E | C | C | C | C |
| Potassium Hydroxide, to 10% | G | G | E | G | G | G | G | U |
| Potassium Hydroxide, over 10% | C | C | E | U | G | G | G | U |
| Potassium Nitrate, 10% aq | E | E | E | E | G | G | E | G |
| Potassium Sulfate, 10% aq | E | E | E | E | — | — | — | — |
| Propane (Liquified) | C | G | — | E | E | E | E | E |
| Propyl Acetate | U | U | G | U | E | — | E | E |
| Propyl Alcohol | E | E | E | E | E | E | E | E |
| Propylene | U | U | U | E | E | E | E | E |
| Rapeseed oil (B100) | G | C | U | E | | | | |
| Refrigerant R-12 | G | E | C | E | E | E | E | E |
| Refrigerant R-13 | G | E | C | E | E | E | E | E |
| Refrigerant R-22 | U | E | C | U | E | E | E | E |
| Refrigerant R-134a | E | C | G | U | E | E | E | E |
| Sewage | E | E | E | E | G | G | G | G |
| Silicone Oils | E | E | E | E | E | E | E | E |
| Soap (Water Solutions) | E | E | E | E | E | E | E | U |
| Sodium Acetate, 10% aq | G | G | E | U | E | E | G | E |
| Sodium Bicarbonate, 10% aq | E | E | E | E | G | G | E | G |
| Sodium Borate, 10% aq | E | E | E | E | E | E | E | G |
| Sodium Carbonate, 10% aq | E | E | E | E | E | G | E | U |
| Sodium Chloride, 10% aq | E | E | E | E | U | C | C | C |
| Sodium Cyanide, 10% aq | E | E | E | E | E | — | C | U |
| Sodium Hydroxide, to 10% | U | G | E | E | C | G | C | U |
| Sodium Hydroxide, over 10% | U | U | G | E | C | C | C | U |
| Sodium Hypochlorite, 10% aq | C | C | E | C | U | U | U | U |
| Sodium Metaphosphate, 10% aq | E | E | E | E | E | G | G | U |
| Sodium Nitrate, 10% aq | G | G | E | — | E | C | E | E |
| Sodium Perborate, 10% aq | G | G | E | E | C | U | C | U |

Fluid Compatibility

E=Excellent

G=Good

C=Conditional

U=Unsatisfactory

| | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
|----------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| Fluid | Seals | Metal | | | | | | |
| Sodium Peroxide, 10% aq | G | G | E | E | U | U | C | C |
| Sodium Phosphates, 10% aq | E | E | E | E | U | E | G | U |
| Sodium Silicate, 10% aq | E | E | E | E | E | E | E | E |
| Sodium Sulfate, 10% aq | E | E | E | E | C | G | G | G |
| Sodium Sulfide, 10% aq | E | E | E | E | C | U | C | U |
| Sodium Thiosulfate, 10% aq | G | E | E | E | U | U | C | G |
| Soy Bean Oil (B100) | E | C | U | E | E | E | E | E |
| Stannic Chloride | E | G | E | E | U | U | U | U |
| Steam (up to 388°F) | U | U | C | C | E | E | E | G |
| Stearic Acid | G | G | G | E | C | C | E | C |
| Stoddard Solvent | E | G | U | E | E | E | E | E |
| Styrene | U | U | U | G | E | E | E | E |
| Sulfur, Slurry | U | E | E | E | E | U | G | E |
| Sulfur Chloride, Wet | U | U | U | E | G | — | G | G |
| Sulfur Dioxide, Dry | U | U | G | E | E | G | G | E |
| Sulfur Trioxide | U | U | G | E | G | C | G | G |
| Sulfuric Acid, to 10% | U | G | U | E | U | G | C | — |
| Sulfuric Acid, over 10% | U | U | U | G | C | C | C | U |
| Sulfurous Acid | C | C | U | G | U | C | C | C |
| Tannic Acid | G | E | E | E | E | E | E | C |
| Tar (Bituminous) | G | U | U | E | E | G | E | E |

| | Buna-N | Neoprene | EPR/EPDM | Fluorocarbon | Steel | Brass | Stainless Steel | Aluminum |
|--------------------------|--------|----------|----------|--------------|-------|-------|-----------------|----------|
| Fluid | Seals | Metal | | | | | | |
| Tartaric Acid | E | G | G | E | U | C | C | E |
| Tertiary Butyl Alcohol | G | G | G | E | G | G | G | G |
| Titanium Tetrachloride | C | U | U | E | E | U | G | U |
| Toluene (Toluol) | U | U | U | E | E | E | E | E |
| Trichlorethylene | U | U | U | E | E | G | E | E |
| Tricresyl Phosphate | U | U | E | G | E | — | C | — |
| Triethanolamine | E | U | E | U | E | U | E | E |
| Tung Oil | G | G | U | E | E | G | E | E |
| Turpentine | G | U | U | E | G | G | G | G |
| Varnish | G | U | U | E | E | G | E | E |
| Vinyl Chloride | U | U | U | E | E | U | C | E |
| Water (to +150°F) | E | E | E | E | C | G | E | G |
| Water (+151°F to +200°F) | E | E | E | E | C | G | E | G |
| Water (+201°F to +350°F) | U | U | G | G | C | G | E | G |
| Water Glycol | E | E | E | E | E | E | E | G |
| Water Petroleum Emulsion | E | G | U | E | C | E | E | G |
| Xylene | U | U | U | E | E | E | E | E |
| Zinc Chloride, 10% aq | E | E | E | E | E | U | U | C |
| Zinc Sulfate, 10% aq | E | E | E | E | U | C | G | C |

HK Series ISO 7241/1 B

Steel



The HK Series Coupling sets the industry standard for ISO-B Couplings and came to Eaton with the recent acquisition of the Hansen™ and Gromelle™ businesses. The HK Series features a rugged ball latch mechanism with automatic self-sealing poppet valves in a wide array of port configurations and multiple valved and non-valved configurations.

Product Features

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

Physical Characteristics

| Body Size | ISO | Max. Operating Pressure | | Rated Flow | Air Inclusion | Fluid Loss | |
|-----------|------|-------------------------|-------|------------|---------------|------------|----------|
| | | mm | bar | (psi) | L/min | (gpm) | cc. max. |
| 1/8 | 5 | 275 | 4,000 | 3 | 0.8 | 0.6 | 0.5 |
| 1/4 | 6.3 | 345 | 5,000 | 12 | 3 | 1.2 | 0.9 |
| 3/8 | 10 | 255 | 3,700 | 23 | 6 | 2.9 | 2.1 |
| 1/2 | 12.5 | 345 | 5,000 | 45 | 12 | 3.6 | 3.5 |
| 3/4 | 20 | 275 | 4,000 | 100 | 26 | 11.5 | 9.3 |
| 1 | 25 | 275 | 4,000 | 189 | 50 | 18.0 | 16.9 |
| 1-1/4** | - | 118 | 1,700 | 288 | 76 | 48.0 | 48.0 |
| 1-1/2 | 40 | 152 | 2,200 | 375 | 99 | 91.3 | 91.3 |
| 2-1/2 | 50 | 104 | 1,500 | 757 | 200 | 209.9 | 209.9 |

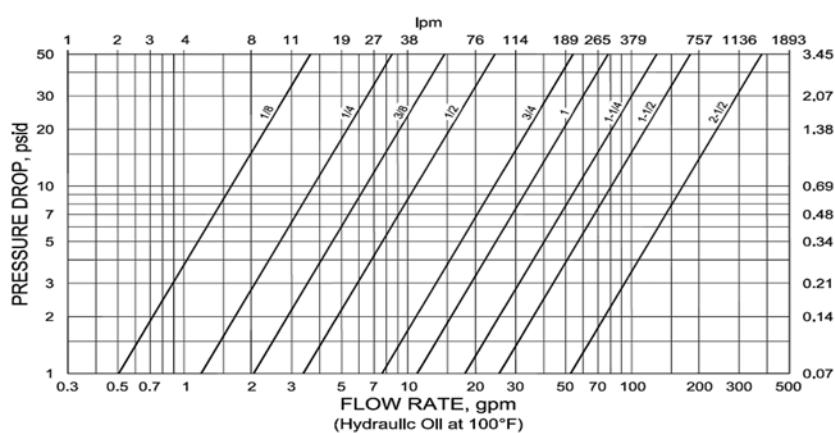
*For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

Applications & Markets



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



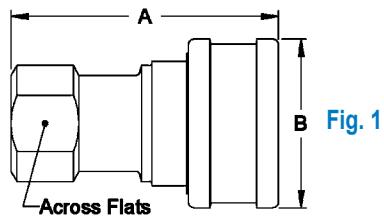


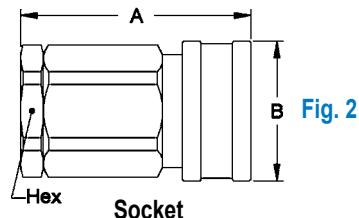
Fig. 1

HK Series ISO 7241/1 B Steel

Sockets(Female)

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

See Figure 1 A=Overall Length B=Maximum Diameter



Socket

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

See Figure 2 A=Overall Length B=Maximum Diameter

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard. To obtain connected length of coupling add Dimensions A and E together.

HK Series ISO 7241/1 B Steel

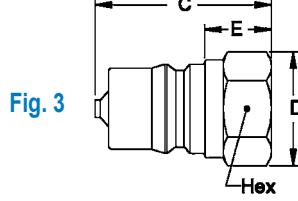


Fig. 3

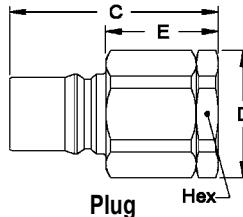


Fig. 4

Plugs(Male)

| Part Number HK1-8 Series | High Impulse | Body Size (inch) | ISO (mm) | Thread Size (Female) | | | Dimensions (inches) | | | | Dimensions (mm) | | | |
|-----------------------------|--------------|---------------------|-------------|----------------------|--------|----------|---------------------|------|------|------|-----------------|------|------|------|
| | | | | NPTF | BSPP | SAE | C | D | E | Hex | C | D | E | Hex |
| 1K11 | - | 1/8 | 5 | 1/8-27 | - | - | 1.26 | 0.65 | 0.44 | 0.56 | 32.0 | 16.5 | 11.2 | 14.2 |
| 1K4 | - | 1/8 | 5 | - | - | 7/16-20 | 1.41 | 0.79 | 0.59 | 0.69 | 35.8 | 20.1 | 15.0 | 17.5 |
| 2K16 | 2K16C | 1/4 | 6.3 | 1/4-18 | - | - | 1.52 | 0.87 | 0.56 | 0.75 | 38.6 | 22.1 | 14.2 | 19.1 |
| 2K16BS | - | 1/4 | 6.3 | - | 1/4-19 | - | 1.52 | 0.87 | 0.56 | 0.75 | 38.6 | 22.1 | 14.2 | 19.1 |
| 2K6 | 2K6C | 1/4 | 6.3 | - | - | 9/16-18 | 1.66 | 1.01 | 0.70 | 0.88 | 42.2 | 25.7 | 17.8 | 22.4 |
| 3K21 | 3K21C | 3/8 | 10 | 3/8-18 | - | - | 1.76 | 1.01 | 0.61 | 0.88 | 44.7 | 25.7 | 15.5 | 22.4 |
| 3K21BS | - | 3/8 | 10 | - | 3/8-19 | - | 1.76 | 1.01 | 0.61 | 0.88 | 44.7 | 25.7 | 15.5 | 22.4 |
| 3K8 | 3K8C | 3/8 | 10 | - | - | 3/4-16 | 1.94 | 1.15 | 0.79 | 1.00 | 49.3 | 29.2 | 20.1 | 25.4 |
| 4KP26 | 4KP26 | 1/2 | 12.5 | 1/2-14 | - | - | 2.03 | 1.30 | 0.76 | 1.13 | 51.6 | 33.0 | 19.3 | 28.7 |
| 4KP26BS | 4KP26BS | 1/2 | 12.5 | - | 1/2-14 | - | 2.03 | 1.30 | 0.76 | 1.13 | 51.6 | 33.0 | 19.3 | 28.7 |
| 4KP10 | 4KP10 | 1/2 | 12.5 | - | - | 7/8-14 | 2.11 | 1.37 | 0.84 | 1.19 | 53.6 | 34.8 | 21.3 | 30.2 |
| 6KP31 | 6KP31 | 3/4 | 20 | 3/4-14 | - | - | 2.36 | 1.52 | 0.71 | 1.31 | 59.9 | 38.6 | 18.0 | 33.3 |
| 6KP31BS | 6KP31BS | 3/4 | 20 | - | 3/4-14 | - | 2.36 | 1.52 | 0.71 | 1.31 | 59.9 | 38.6 | 18.0 | 33.3 |
| 6KP12 | 6KP12 | 3/4 | 20 | - | - | 11/16-12 | 2.54 | 1.59 | 0.89 | 1.38 | 64.5 | 40.4 | 22.6 | 35.1 |
| 8KP36 | 8KP36 | 1 | 25 | 1-11 1/2 | - | - | 2.85 | 1.88 | 0.97 | 1.63 | 72.4 | 47.8 | 24.6 | 41.4 |
| 8KP36BS | 8KP36BS | 1 | 25 | - | 1-11 | - | 2.85 | 1.88 | 0.97 | 1.63 | 72.4 | 47.8 | 24.6 | 41.4 |
| 8KP16 | 8KP16 | 1 | 25 | - | - | 15/16-12 | 2.85 | 2.17 | 0.97 | 1.88 | 72.4 | 55.1 | 24.6 | 47.8 |

See Figure 3 C=Overall Length D=Maximum Diameter E=Exposed Length when Connected
To obtain connected length of coupling add Dimensions A and E together.

| Part Number HK1-8 Series | High Impulse | Body Size (inch) | ISO (mm) | Thread Size NPTF | (Female) BSPP | Dimensions (inches) | | | | Dimensions (mm) | | | |
|-----------------------------|--------------|---------------------|-------------|---------------------|------------------|---------------------|------|------|------|-----------------|-------|-------|-------|
| | | | | | | C | D | E | Hex | C | D | E | Hex |
| 10K41* | - | 1 1/4 | - | 1 1/4-11 1/2 | - | 4.25 | 2.74 | 2.33 | 2.38 | 108.0 | 69.6 | 59.2 | 60.5 |
| 10K41BS* | - | 1 1/4 | - | - | 1-1/4-11 | 4.25 | 2.74 | 2.33 | 2.38 | 108.0 | 69.6 | 59.2 | 60.5 |
| 12K41 | 12K41C | 1 1/2 | 40 | 1 1/4-11 1/2 | - | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| 12K41BS | 12K41CBS | 1 1/2 | 40 | - | 1-1/4-11 | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| 12K46 | 12K46C | 1 1/2 | 40 | 1 1/2-11 1/2 | - | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| 12K46BS | 12K46CBS | 1 1/2 | 40 | - | 1-1/2-11 | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| 20K51 | 20K51C | 2 1/2 | 50 | 2-11 1/2 | - | 5.49 | 4.33 | 2.97 | 3.75 | 139.4 | 110.0 | 75.4 | 95.3 |
| 20K51BS | 20K51CBS | 2 1/2 | 50 | - | 2-11 | 5.49 | 4.33 | 2.97 | 3.75 | 139.4 | 110.0 | 75.4 | 95.3 |
| 20K56 | 20K56C | 2 1/2 | 50 | 2 1/2-8 | - | 6.08 | 4.33 | 3.56 | 3.75 | 154.4 | 110.0 | 90.4 | 95.3 |
| 20K56BS | 20K56CBS | 2 1/2 | 50 | - | 2-1/2-11 | 6.08 | 4.33 | 3.56 | 3.75 | 154.4 | 110.0 | 90.4 | 95.3 |
| 20K61 | 20K61C | 2 1/2 | 50 | 3-8 | - | 6.94 | 4.62 | 4.42 | 4.00 | 176.3 | 117.3 | 112.3 | 101.6 |
| 20K61BS | 20K61CBS | 2 1/2 | 50 | - | 3-11 | 6.94 | 4.62 | 4.42 | 4.00 | 176.3 | 117.3 | 112.3 | 101.6 |

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

Dust Plugs and Dust Caps Accessories

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

* Brass ** Aluminum



HK Series ISO 7241/1 B

Brass



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

Product Features

- Meets dimensional requirements to ISO standard 7241/1 Series B
- Brass construction with stainless steel springs for greater corrosion resistance and fluid compatibility
- Self-sealing poppet valves provide excellent high and low pressure sealing
- Standard seal material-Buna-N. Seal options available in PTFE, Neoprene, Fluorocarbon, EPDM, and Kalrez

Physical Characteristics

| Body Size | ISO | Max. Operating Pressure | Rated Flow | Air Inclusion | Fluid Loss | | |
|-----------|------|-------------------------|------------|---------------|------------|----------|----------|
| (mm) | | (bar) | (psi) | L/min | (gpm) | cc. max. | cc. max. |
| 1/8 | 5 | 207 | 3,000 | 3 | 0.8 | 0.6 | 0.5 |
| 1/4 | 6.3 | 186 | 2,700 | 12 | 3 | 1.2 | 0.9 |
| 3/8 | 10 | 152 | 2,200 | 23 | 6 | 2.9 | 2.1 |
| 1/2 | 12.5 | 155 | 2,250 | 45 | 12 | 3.6 | 3.5 |
| 3/4 | 20 | 138 | 2,000 | 100 | 26 | 11.5 | 9.3 |
| 1 | 25 | 103 | 1,500 | 189 | 50 | 18.0 | 16.9 |
| 1-1/4** | - | 83 | 1,200 | 288 | 76 | 48.0 | 48.0 |
| 1-1/2 | 40 | 104 | 1,500 | 375 | 99 | 91.3 | 91.3 |
| 2-1/2 | 50 | 49 | 700 | 757 | 200 | 209.9 | 209.9 |

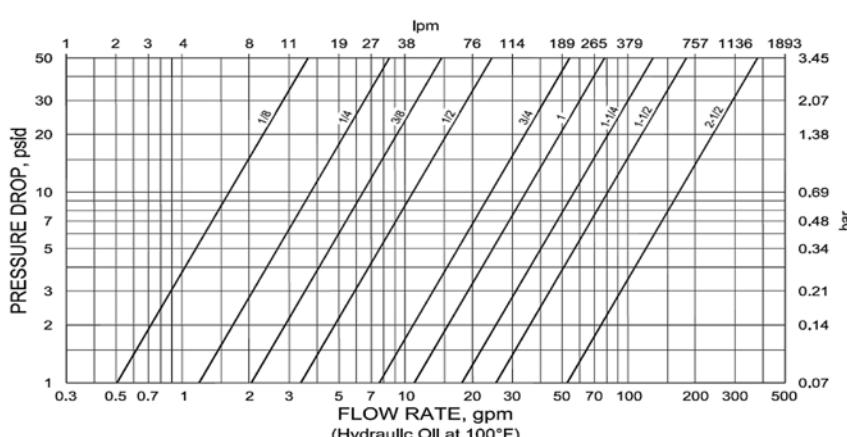
*For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

Applications & Markets



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



HK Series ISO 7241/1 B

Brass

Sockets(Female)

Fig. 1

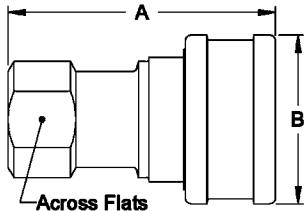
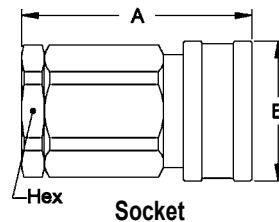


Fig. 2



| Part Number HK1-8 Series | Body Size (inch) | ISO (mm) | Thread Size (Female) | | Dimensions (inches) | | | Dimensions (mm) | | |
|-----------------------------|---------------------|-------------|----------------------|--------|---------------------|------|-----------------|-----------------|------|-----------------|
| | | | NPTF | BSPP | A | B | Across Flats | A | B | Across Flats |
| B1H11 | 1/8 | 5 | 1/8-27 | - | 1.91 | .98 | .56 | 48.5 | 24.9 | 14.2 |
| B2H16 | 1/4 | 6.3 | 1/4-18 | - | 2.26 | 1.14 | .75 | 57.4 | 29.0 | 19.1 |
| B2H16BS | 1/4 | 6.3 | - | 1/4-19 | 2.31 | 1.14 | .75 | 58.7 | 29.0 | 19.1 |
| B3H21 | 3/8 | 10 | 3/8-18 | - | 2.56 | 1.42 | .88 | 65.0 | 36.1 | 22.4 |
| B3H21BS | 3/8 | 10 | - | 3/8-19 | 2.56 | 1.42 | .88 | 65.0 | 36.1 | 22.4 |
| B4HP26 | 1/2 | 12.5 | 1/2-14 | - | 2.96 | 1.86 | 1.13 | 75.2 | 47.2 | 28.7 |
| BAHP26BS | 1/2 | 12.5 | - | 1/2-14 | 2.96 | 1.86 | 1.13 | 75.2 | 47.2 | 28.7 |
| B6HP31 | 3/4 | 20 | 3/4-14 | - | 3.48 | 2.22 | 1.31 | 88.4 | 56.4 | 33.3 |
| B6HP31BS | 3/4 | 20 | - | 3/4-14 | 3.48 | 2.22 | 1.31 | 88.4 | 56.4 | 33.3 |
| B8HP36 | 1 | 25 | 1-11 1/2 | - | 4.13 | 2.61 | 1.75 | 104.9 | 66.3 | 44.5 |
| B8HP36BS | 1 | 25 | - | 1-11 | 4.13 | 2.61 | 1.75 | 104.9 | 66.3 | 44.5 |

See Figure 1 A=Overall Length B=Maximum Diameter

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

See Figure 2 A=Overall Length B=Maximum Diameter

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard
To obtain connected length of coupling add Dimensions A and E together.



HK Series ISO 7241/1 B Brass

Plugs(Male)

| Part Number HK1-8 Series | Body Size (inch) | ISO (mm) | Thread Size (Female) NPTF | Thread Size (Female) BSPP | Dimensions (inches) | | | | Dimensions (mm) | | | |
|-----------------------------|---------------------|-------------|------------------------------|------------------------------|---------------------|------|------|------|-----------------|------|------|------|
| | | | | | C | D | E | Hex | C | D | E | Hex |
| B1K11 | 1/8 | 5 | 1/8-27 | - | 1.26 | 0.65 | 0.44 | 0.56 | 32.0 | 16.5 | 11.2 | 14.2 |
| B2K16 | 1/4 | 6.3 | 1/4-18 | - | 1.52 | 0.87 | 0.56 | 0.75 | 38.6 | 22.1 | 14.2 | 19.1 |
| B2K16BS | 1/4 | 6.3 | - | 1/4-19 | 1.52 | 0.87 | 0.56 | 0.75 | 38.6 | 22.1 | 14.2 | 19.1 |
| B3K21 | 3/8 | 10 | 3/8-18 | - | 1.76 | 1.01 | 0.61 | 0.88 | 44.7 | 25.7 | 15.5 | 22.4 |
| B3K21BS | 3/8 | 10 | - | 3/8-19 | 1.76 | 1.01 | 0.61 | 0.88 | 44.7 | 25.7 | 15.5 | 22.4 |
| B4KP26 | 1/2 | 12.5 | 1/2-14 | - | 2.03 | 1.30 | 0.76 | 1.13 | 51.6 | 33.0 | 19.3 | 28.7 |
| B4KP26BS | 1/2 | 12.5 | - | 1/2-14 | 2.03 | 1.30 | 0.76 | 1.13 | 51.6 | 33.0 | 19.3 | 28.7 |
| B6KP31 | 3/4 | 20 | 3/4-14 | - | 2.36 | 1.52 | 0.71 | 1.31 | 59.9 | 38.6 | 18.0 | 33.3 |
| B6KP31BS | 3/4 | 20 | - | 3/4-14 | 2.36 | 1.52 | 0.71 | 1.31 | 59.9 | 38.6 | 18.0 | 33.3 |
| B8KP36 | 1 | 25 | 1-11 1/2 | - | 2.85 | 1.88 | 0.97 | 1.63 | 72.4 | 47.8 | 24.6 | 41.4 |
| B8KP36BS | 1 | 25 | - | 1-11 | 2.85 | 1.88 | 0.97 | 1.63 | 72.4 | 47.8 | 24.6 | 41.4 |

See Figure 3 C=Overall Length D=Maximum Diameter E=Exposed Length when Connected

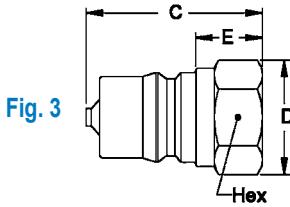


Fig. 3

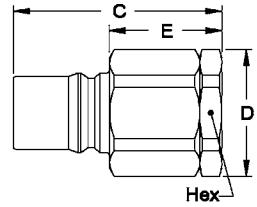


Fig. 4

| Part Number HK1-8 Series | Body Size (inch) | ISO (mm) | Thread Size (Female) NPTF | Thread Size (Female) BSPP | Dimensions (inches) | | | | Dimensions (mm) | | | |
|-----------------------------|---------------------|-------------|------------------------------|------------------------------|---------------------|------|------|------|-----------------|-------|-------|-------|
| | | | | | C | D | E | Hex | C | D | E | Hex |
| B10K41* | 1 1/4 | - | 1 1/4-11 1/2 | - | 4.25 | 2.74 | 2.33 | 2.38 | 108.0 | 69.6 | 59.2 | 60.5 |
| B12K41 | 1 1/2 | 40 | 1 1/4-11 1/2 | - | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| B12K41BS | 1 1/2 | 40 | - | 1 1/4-11 | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| B12K46 | 1 1/2 | 40 | 1 1/2-11 1/2 | - | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| B12K46BS | 1 1/2 | 40 | - | 1 1/2-11 | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| B20K51 | 2 1/2 | 50 | 2-11 1/2 | - | 5.49 | 4.33 | 2.97 | 3.75 | 139.4 | 110.0 | 75.4 | 95.3 |
| B20K51BS | 2 1/2 | 50 | - | 2-11 | 5.49 | 4.33 | 2.97 | 3.75 | 139.4 | 110.0 | 75.4 | 95.3 |
| B20K56 | 2 1/2 | 50 | 2 1/2-8 | - | 6.08 | 4.33 | 3.56 | 3.75 | 154.4 | 110.0 | 90.4 | 95.3 |
| B20K56BS | 2 1/2 | 50 | - | 2 1/2-11 | 6.08 | 4.33 | 3.56 | 3.75 | 154.4 | 110.0 | 90.4 | 95.3 |
| B20K61 | 2 1/2 | 50 | 3-8 | - | 6.94 | 4.62 | 4.42 | 4.00 | 176.3 | 117.3 | 112.3 | 101.6 |
| B20K61BS | 2 1/2 | 50 | - | 3-11 | 6.94 | 4.62 | 4.42 | 4.00 | 176.3 | 117.3 | 112.3 | 101.6 |

See Figure 4 C=Overall Length D=Maximum Diameter E=Exposed Length when Connected

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

To obtain connected length of coupling add Dimensions A and E together.

Dust Plugs and Dust Caps Accessories

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

* Brass ** Aluminum



HK Series ISO 7241/1 B

Stainless Steel



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

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 seal material-Buna-N . Seal options available in PTFE, Neoprene, Fluorocarbon, EPDM, and Kalrez
- Standard body material-303 or 316 Stainless Steel

Physical Characteristics

| Body Size | ISO | Max. Operating Pressure | | Rated Flow | | Air Inclusion cc. max. | Fluid Loss cc. max. |
|-----------|------|-------------------------|-------|------------|-------|------------------------|---------------------|
| | | (mm) | bar | (psi) | L/min | (gpm) | |
| 1/8 | 5 | 344 | 5,000 | 3 | | 0.8 | 0.6 |
| 1/4 | 6.3 | 255 | 3,700 | 12 | | 3 | 1.2 |
| 3/8 | 10 | 255 | 3,700 | 23 | | 6 | 2.9 |
| 1/2 | 12.5 | 293 | 4,250 | 45 | | 12 | 3.6 |
| 3/4 | 20 | 242 | 3,500 | 100 | | 26 | 11.5 |
| 1 | 25 | 207 | 3,000 | 189 | | 50 | 18.0 |
| 1-1/4** | - | 118 | 1,700 | 288 | | 76 | 48.0 |
| 1-1/2 | 40 | 152 | 2,200 | 375 | | 99 | 91.3 |
| 2-1/2 | 50 | 104 | 1,500 | 757 | | 200 | 209.9 |

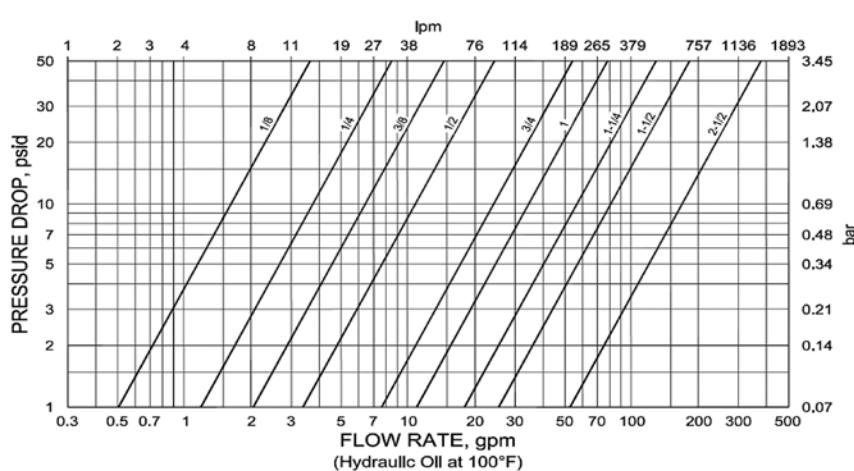
*For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

Applications & Markets



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



HK Series ISO 7241/1 B

Stainless Steel

Sockets(Female)

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

See Figure 1 A=Overall Length B=Maximum Diameter

Part Number

| Part Number HK 10/12/20 Series 303 Stainless Steel | Body Size (inch) | ISO (mm) | Thread Size (Female) | | A | B | HEX | Dimensions (mm) | | |
|--|---------------------|-------------|----------------------|----------|------|------|------|-----------------|-------|-------|
| | | | NPTF | BSPP | | | | A | B | HEX |
| LL10H41* | 1 1/4 | - | 1 1/4-11 1/2 | - | 4.51 | 2.73 | 2.38 | 114.6 | 69.3 | 60.5 |
| LL10H41BS* | 1 1/4 | - | - | 1 1/4-11 | 4.51 | 2.73 | 2.38 | 114.6 | 69.3 | 60.5 |
| LL12H41 | 1 1/2 | 40 | 1 1/4-11 1/2 | - | 4.82 | 3.23 | 2.38 | 122.4 | 82.0 | 60.5 |
| LL12H41BS | 1 1/2 | 40 | - | 1 1/4-11 | 4.82 | 3.23 | 2.38 | 122.4 | 82.0 | 60.5 |
| LL12H46 | 1 1/2 | 40 | 1 1/2-11 1/2 | - | 4.82 | 3.23 | 2.38 | 122.4 | 82.0 | 60.5 |
| LL12H46BS | 1 1/2 | 40 | - | 1 1/2-11 | 4.82 | 3.23 | 2.38 | 122.4 | 82.0 | 60.5 |
| LL20H51 | 2 1/2 | 50 | 2-11 1/2 | - | 5.55 | 4.11 | 3.75 | 141.0 | 104.4 | 95.3 |
| LL20H51BS | 2 1/2 | 50 | - | 2-11 | 5.55 | 4.11 | 3.75 | 141.0 | 104.4 | 95.3 |
| LL20H56 | 2 1/2 | 50 | 2 1/2-8 | - | 6.14 | 4.11 | 3.75 | 156.0 | 104.4 | 95.3 |
| LL20H56BS | 2 1/2 | 50 | - | 2 1/2-11 | 6.14 | 4.11 | 3.75 | 156.0 | 104.4 | 95.3 |
| LL20H61 | 2 1/2 | 50 | 3-8 | - | 7.00 | 4.11 | 4.00 | 177.8 | 104.4 | 101.6 |
| LL20H61BS | 2 1/2 | 50 | - | 3-11 | 7.00 | 4.11 | 4.00 | 177.8 | 104.4 | 101.6 |

See Figure 2 A=Overall Length B=Maximum Diameter

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

Fig. 1

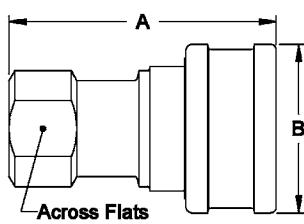
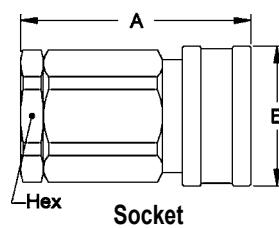


Fig. 2



HK Series ISO 7241/1 B

Stainless Steel

Fig. 3

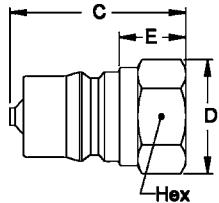
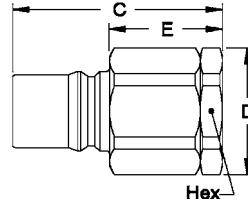


Fig. 4



Plugs (Male)

Part Number

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

See Figure 3 C=Overall Length D=Maximum Diameter E=Exposed Length when Connected

Part Number

| HK 10/12/20 Series | | Body Size (inch) | ISO (mm) | Thread Size (Female) | | Dimensions (inches) | | | | Dimensions (mm) | | | |
|---------------------|--|-------------------------------|-------------|---|-----------------------------------|---------------------|------|------|------|-----------------|-------|-------|-------|
| 303 Stainless Steel | | | | NPTF | BSPP | C | D | E | Hex | C | D | E | Hex |
| LL10K41* | | 1 ¹ / ₄ | - | 1 ¹ / ₄ -11-1 ¹ / ₂ | - | 4.25 | 2.74 | 2.33 | 2.38 | 108.0 | 69.6 | 59.2 | 60.5 |
| LL10K41BS* | | 1 ¹ / ₄ | - | - | 1 ¹ / ₄ -11 | 4.25 | 2.74 | 2.33 | 2.38 | 108.0 | 69.6 | 59.2 | 60.5 |
| LL12K41 | | 1 ¹ / ₂ | 40 | 1 ¹ / ₄ -11-1 ¹ / ₂ | - | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| LL12K41BS | | 1 ¹ / ₂ | 40 | - | 1 ¹ / ₄ -11 | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| LL12K46 | | 1 ¹ / ₂ | 40 | 1 ¹ / ₂ -11-1 ¹ / ₂ | - | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| LL12K46BS | | 1 ¹ / ₂ | 40 | - | 1 ¹ / ₂ -11 | 4.76 | 2.74 | 2.67 | 2.38 | 120.9 | 69.6 | 67.8 | 60.5 |
| LL20K51 | | 2 ¹ / ₂ | 50 | 2-11 ¹ / ₂ | - | 5.49 | 4.33 | 2.97 | 3.75 | 139.4 | 110.0 | 75.4 | 95.3 |
| LL20K51BS | | 2 ¹ / ₂ | 50 | - | 2-11 | 5.49 | 4.33 | 2.97 | 3.75 | 139.4 | 110.0 | 75.4 | 95.3 |
| LL20K56 | | 2 ¹ / ₂ | 50 | 2 ¹ / ₂ -8 | - | 6.08 | 4.33 | 3.56 | 3.75 | 154.4 | 110.0 | 90.4 | 95.3 |
| LL20K56BS | | 2 ¹ / ₂ | 50 | - | 2 ¹ / ₂ -11 | 6.08 | 4.33 | 3.56 | 3.75 | 154.4 | 110.0 | 90.4 | 95.3 |
| LL20K61 | | 2 ¹ / ₂ | 50 | 3-8 | - | 6.94 | 4.62 | 4.42 | 4.00 | 176.3 | 117.3 | 112.3 | 101.6 |
| LL20K61BS | | 2 ¹ / ₂ | 50 | - | 3-11 | 6.94 | 4.62 | 4.42 | 4.00 | 176.3 | 117.3 | 112.3 | 101.6 |

See Figure 4 C=Overall Length D=Maximum Diameter E=Exposed Length when Connected

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

Dust Plugs and Dust Caps Accessories

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

* Brass ** Aluminum

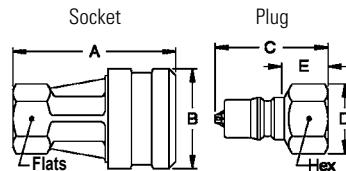


Quick Disconnect Coupling Options

- Seals: PTFE, Neoprene, Fluorocarbon, Buna-N, EPDM and Kalrez
- Non-valved socket and plug
- Valve actuator in socket or plug
- Bleeder-style plug
- Sleeve lock

Series P2HK Plastic Coupling

The Series P2-HK coupling is intended for use with air, water and various chemicals at low pressure. It is designed for use where an economical, light weight, corrosion resistant coupling is desired. All components, except springs and seals, are molded from natural polypropylene with a UV inhibitor. Valve springs are 316 stainless steel. Fluorocarbon seals are standard. EPDM seals are optional.

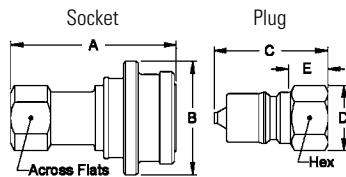


| Part Number | Body Size | Description | Thread Size | Dimensions A | Dimensions B | Dimensions Flats | Dimensions C | Dimensions D | Dimensions E | Dimensions HEX |
|-------------|-----------|----------------|-------------|--------------|--------------|------------------|--------------|--------------|--------------|----------------|
| PP2H25F | 1/4" | Socket(Female) | 1/4-18 | 2.38 | 1.45 | 0.88 | | | | |
| PP2K25F | 1/4" | Plug(Male) | 1/4-18 | | | | 1.65 | 1.01 | 0.67 | 0.88 |

* 50 psi 4 bar; +35° F to 150° F

Series 3HK Steam Coupling

The steam coupling has a large diameter flange on the sleeve to aid gripping while the user wears heavy gloves. EPDM seals are standard, and can be used with steam at temperatures up to 350°F. Options are BSPP threads, sleeve lock, EPDM seals for use with steam at temperatures above 350°F and Fluorocarbon seals.

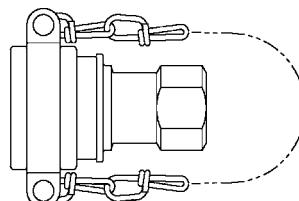


| Part Number | Body Size | Description | Thread Size | Dimensions A | Dimensions B | Dimensions Flats | Dimensions C | Dimensions D | Dimensions E | Dimensions HEX |
|-------------|-----------|----------------|-------------|--------------|--------------|------------------|--------------|--------------|--------------|----------------|
| B3H21Y | 3/8" | Socket(Female) | 3/8-18 | 2.56 | 1.75 | 0.88 | | | | |
| B3K21192 | 3/8" | Plug(Male) | 3/8-18 | | | | 1.76 | 1.01 | 0.61 | 0.88 |

E = Exposed length when connected

Release Clamp with Chain

The steam coupling has a large diameter flange on the sleeve to aid gripping while the user wears heavy gloves. EPDM seals are standard, and can be used with steam at temperatures up to 350°F. Options are BSPP threads, sleeve lock, EPDM seals for use with steam at temperatures above 350°F and Fluorocarbon seals.

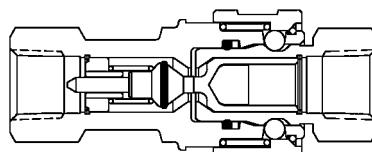


| Series | Body Size | Kit Part Number |
|--------|-----------|-----------------|
| 1HK | 1/8" | 1HRCK |
| 2HK | 1/4" | 2HRCK |
| 3HK | 3/8" | 3HRCK |
| 4HK | 1/2" | 4HRCK |
| 6HK | 3/4" | 6HRCK |
| 8HK | 1" | 8HRCK |

Bleeder-Style Plugs & One-Way Shut-Off Conversion Via (VAA)

Bleeder-style plugs can be used on air lines to prevent hose whip when disconnecting a line by reducing the exhaust velocity of air. Bleeder-style plugs can be used on hydraulic lines to prevent static pressure from building up in disconnected lines. Valves of these plugs are manufactured such that a small leak path exists when the plug is disconnected.

Bleeder-style plugs are available in Series 1HK through 6HKP.



Typical use of VAA option with series HK

| Series | Body Size | Plug Part No. | Valve Actuator |
|---------------|------------------|----------------------|-----------------------|
| 1HK | 1/8" | B1K11VB | B1K11VAA |
| 2HK | 1/4" | B2K16VB | B2K16VAA |
| 2HK | 1/4" | 2K16CVB | 2K16CVAA |
| 3HK | 3/8" | B3K21VB | B3K21VAA |
| 3HK | 3/8" | 3K21VB | 3K21VAA |

| Series | Body Size | Plug Part No. | Valve Actuator |
|---------------|------------------|----------------------|-----------------------|
| 3HK | 3/8" | 3K21CVB | 3K21CVAA |
| 4HKP | 1/8" | 4KP26VB | 4KP26VAA |
| 6HKP | 3/4" | B6KP31VB | B6KP31VAA |
| 6HKP | 3/4" | 6KP31VB | 6KP31VAA |

| Current P/N | Closest Equivalent HK Series P/N | Coupling Type | Material | Body Size | Port Class | Threads Spec | Valved | Seal Type | FD45 Specific Data | | | HK Specific Data | | | Max Hex (in) | Max Wrench Size | |
|-----------------|----------------------------------|---------------|----------|-----------|------------|--------------|----------|-----------|--------------------|----------|----------|------------------|----------|----------|--------------|-----------------|--------|
| | | | | | | | | | mm | 0AL (in) | DIA (mm) | mm | Hex (in) | DIA (mm) | mm | | |
| FD45-1053-04-04 | LL2H16NV | Female | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | NV | Buna-N | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 3000 | 13/16 |
| FD45-1053-08-10 | LL4HP26NV | Female | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | NV | Buna-N | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1500 | 1 5/16 |
| FD45-1053-16-16 | LL8HP36NV | Female | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | NV | Buna-N | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1250 | 2 |
| FD45-1056-06-06 | LL3H21VA | Female | 304 SS | 0.375 | 4 | NPTF | 3/8-18 | VAA | Buna-N | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1500 | 1 1/16 |
| FD45-1056-12-12 | LL6HP31VA | Female | 304 SS | 0.375 | 9 | NPTF | 3/4-14 | VAA | Buna-N | 89.4 | 3.52 | 51.1 | 2.01 | 41.1 | 1.62 | 1500 | 1 1/2 |
| FD45-1059-04-04 | LL2K16VA | Male | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | VAA | Buna-N | 33.8 | 1.33 | 0 | 0 | 17.5 | 0.59 | 3000 | 11/16 |
| FD45-1059-08-10 | LL4KP26VA | Male | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | VAA | Buna-N | 43.7 | 1.72 | 0 | 0 | 26.9 | 1.06 | 1500 | 1 1/16 |
| FD45-1059-16-16 | LL8KP36VA | Male | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | VAA | Buna-N | 61.7 | 2.43 | 0 | 0 | 41.1 | 1.62 | 1250 | 1 1/2 |
| FD45-1061-06-06 | 3K21NV | Male | Steel | 0.375 | 4 | NPTF | 3/8-18 | NV | Buna-N | 38.1 | 1.5 | 0 | 0 | 22.4 | 0.58 | 4000 | 7/8 |
| FD45-1061-12-12 | 6K231NV | Male | Steel | 0.375 | 9 | NPTF | 3/4-14 | NV | Buna-N | 50.8 | 2 | 0 | 0 | 33.3 | 1.31 | 4000 | 1 5/16 |
| FD45-1062-04-04 | LL2K16NV | Male | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | NV | Buna-N | 33.8 | 1.33 | 0 | 0 | 17.5 | 0.69 | 3000 | 11/16 |
| FD45-1062-08-10 | LL4KP26NV | Male | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | NV | Buna-N | 43.7 | 1.72 | 0 | 0 | 26.9 | 1.06 | 1500 | 1 1/16 |
| FD45-1062-16-16 | LL8KP36NV | Male | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | NV | Buna-N | 61.7 | 2.43 | 0 | 0 | 41.1 | 1.62 | 1250 | 1 1/2 |
| FD45-1064-04-04 | 2K16192 | Male | Steel | 0.250 | 2 | NPTF | 1/4-18 | Poppet | EPR | 38.9 | 1.53 | 0 | 0 | 19 | 0.75 | 5000 | 3/4 |
| FD45-1064-08-10 | 4KP26192 | Male | Steel | 0.500 | 7 | NPTF | 1/2-14 | Poppet | EPR | 49.8 | 1.96 | 0 | 0 | 26.9 | 1.06 | 4000 | 1 1/16 |
| FD45-1065-04-04 | 2H16192 | Female | Steel | 0.250 | 2 | NPTF | 1/4-18 | Poppet | EPR | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 5000 | 13/16 |
| FD45-1065-08-10 | 4HP26192 | Female | Steel | 0.500 | 7 | NPTF | 1-11 1/2 | Poppet | EPR | 102.1 | 4.02 | 62 | 2.44 | 50.8 | 2 | 4000 | 2 |
| FD45-1065-16-16 | 8HP36192 | Female | Steel | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | EPR | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 4000 | 1 5/16 |
| FD45-1070-04-04 | 2H16143 | Female | Steel | 0.250 | 2 | NPTF | 1/4-18 | Poppet | Fluorocarbon | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 5000 | 13/16 |
| FD45-1070-08-10 | 4HP26143 | Female | Steel | 0.500 | 7 | NPTF | 1/2-14 | Poppet | Fluorocarbon | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 4000 | 1 5/16 |

Comparison Chart between FD45 and closest equivalent HK Series Couplings

| Current FD45 P/N | Closest Equivalent HK Series P/N | Coupling Type | Material | Body Size | Port Class | Threads Spec | Valved | Seal Type | OAL (mm) | FD45 Specific Data DIA (mm) | Hex (in) | (mm) | HK Specific Data DIA (in) | | | Hex (mm) | (in) | (mm) | Max Press | Wrench Size | Wrench Size | | | | |
|------------------|----------------------------------|---------------|----------|-----------|------------|--------------|--------------|-----------|--------------|-----------------------------|----------|------|---------------------------|----------|-----------|----------|--------|---------|-----------|-------------|-------------|--------|------|------|--------|
| | | | | | | | | | | | | | (mm) | OAL (in) | Max Press | | | | | | | | | | |
| FD45-1070-16-16 | 8HP36143 | Female | Steel | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | Fluorocarbon | 102.1 | 4.02 | 62 | 244 | 50.8 | 2 | 4000 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 4000 | 1 1/16 |
| FD45-1071-04-04 | 2K16143 | Male | Steel | 0.250 | 2 | NPTF | 1/4-18 | Poppet | Fluorocarbon | 38.9 | 1.53 | 0 | 0 | 19 | 0.75 | 5000 | 3/4 | 38.608 | 1.52 | 22.098 | 0.87 | 19.05 | 0.75 | 5000 | 3/4 |
| FD45-1071-08-10 | 4KP26143 | Male | Steel | 0.500 | 7 | NPTF | 1/2-14 | Poppet | Fluorocarbon | 49.8 | 1.96 | 0 | 0 | 26.9 | 1.06 | 4000 | 1 1/16 | 51.562 | 2.03 | 33.02 | 1.3 | 28.702 | 1.13 | 5000 | 1 1/8 |
| FD45-1071-16-16 | 8KP36143 | Male | Steel | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | Fluorocarbon | 70.4 | 2.77 | 0 | 0 | 41.1 | 1.62 | 4000 | 1 1/2 | 72.39 | 2.85 | 47.752 | 1.88 | 41.402 | 1.63 | 4000 | 1 5/8 |
| FD45-1076-06-06 | L13H21143 | Female | 304 SS | 0.375 | 4 | NPTF | 3/8-18 | Poppet | Fluorocarbon | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1500 | 1 1/16 | 65.024 | 2.56 | 36.068 | 1.42 | 22.352 | 0.88 | 3700 | 7/8 |
| FD45-1076-12-12 | L16HP31143 | Female | 304 SS | 0.375 | 9 | NPTF | 3/4-14 | Poppet | Fluorocarbon | 86.4 | 3.4 | 51.1 | 2.01 | 41.1 | 1.62 | 1500 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 3500 | 1 5/16 |
| FD45-1078-04-04 | L12K16143 | Male | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | Poppet | Fluorocarbon | 37.8 | 1.49 | 0 | 0 | 17.5 | 0.69 | 3000 | 11/16 | 38.608 | 1.52 | 22.098 | 0.87 | 19.05 | 0.75 | 3700 | 3/4 |
| FD45-1078-08-10 | L14KP26143 | Male | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | Poppet | Fluorocarbon | 48.8 | 1.92 | 0 | 0 | 26.9 | 1.06 | 1500 | 1 1/16 | 51.562 | 2.03 | 33.02 | 1.3 | 28.702 | 1.13 | 4250 | 1 1/8 |
| FD45-1078-16-16 | L18KP36143 | Male | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | Fluorocarbon | 70.4 | 2.77 | 0 | 0 | 41.1 | 1.62 | 1250 | 1 1/2 | 72.39 | 2.85 | 47.752 | 1.88 | 41.402 | 1.63 | 3000 | 1 5/8 |
| FD45-1086-04-04 | B2K16 | Male | Brass | 0.250 | 2 | NPTF | 1/4-18 | Poppet | Buna-N | 38.9 | 1.53 | 0 | 0 | 17.5 | 0.69 | 1000 | 11/16 | 38.608 | 1.52 | 22.098 | 0.87 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1086-08-10 | B4KP26 | Male | Brass | 0.500 | 7 | NPTF | 1/2-14 | Poppet | Buna-N | 49.8 | 1.96 | 0 | 0 | 26.9 | 1.06 | 1000 | 1 1/16 | 51.562 | 2.03 | 33.02 | 1.3 | 28.702 | 1.13 | 2250 | 1 1/8 |
| FD45-1086-16-16 | B8KP36 | Male | Brass | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | Buna-N | 70.4 | 2.77 | 0 | 0 | 41.1 | 1.62 | 1000 | 1 1/2 | 72.39 | 2.85 | 47.752 | 1.88 | 41.402 | 1.63 | 1500 | 1 5/8 |
| FD45-1091-02-02 | B1H11143 | Female | Brass | 0.125 | 1 | NPTF | 1/8-27 | Poppet | Fluorocarbon | 46 | 1.81 | 23.9 | 0.94 | 19 | 0.75 | 1000 | 3/4 | 48.514 | 1.91 | 24.892 | 0.98 | 14.224 | 0.56 | 3000 | 9/16 |
| FD45-1091-06-06 | B3H21143 | Female | Brass | 0.375 | 4 | NPTF | 3/8-18 | Poppet | Fluorocarbon | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1000 | 1 1/16 | 65.024 | 2.56 | 36.068 | 1.42 | 22.352 | 0.88 | 2200 | 7/8 |
| FD45-1091-12-12 | B6HP31143 | Female | Brass | 0.375 | 9 | NPTF | 3/4-14 | Poppet | Fluorocarbon | 86.4 | 3.4 | 51.1 | 2.01 | 41.1 | 1.62 | 1000 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 2000 | 1 5/16 |
| FD45-1091-20-20 | B10H41143 | Female | Brass | 1.250 | 16 | NPTF | 1 1/4-11 1/2 | Poppet | Fluorocarbon | 114 | 4.49 | 66.5 | 2.62 | 60.5 | 2.38 | 1000 | 2 3/8 | 114.554 | 4.51 | 69.342 | 2.73 | 60.452 | 2.38 | 1200 | 2 3/8 |
| FD45-1092-04-04 | B2K16143 | Male | Brass | 0.250 | 2 | NPTF | 1/4-18 | Poppet | Fluorocarbon | 38.9 | 1.53 | 0 | 0 | 17.5 | 0.69 | 1000 | 11/16 | 38.608 | 1.52 | 22.098 | 0.87 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1092-08-10 | B4KP26143 | Male | Brass | 0.500 | 7 | NPTF | 1/2-14 | Poppet | Fluorocarbon | 49.8 | 1.96 | 0 | 0 | 26.9 | 1.06 | 1000 | 1 1/16 | 51.562 | 2.03 | 33.02 | 1.3 | 28.702 | 1.13 | 2250 | 1 1/8 |
| FD45-1092-16-16 | B8KP36143 | Male | Brass | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | Fluorocarbon | 70.4 | 2.77 | 0 | 0 | 41.1 | 1.62 | 1000 | 1 1/2 | 72.39 | 2.85 | 47.752 | 1.88 | 41.402 | 1.63 | 1500 | 1 5/8 |
| FD45-1101-02-02 | B1H11 | Female | Brass | 0.125 | 1 | NPTF | 1/8-27 | Poppet | Buna-N | 46 | 1.81 | 23.9 | 0.94 | 19 | 0.75 | 1000 | 3/4 | 48.514 | 1.91 | 24.892 | 0.98 | 14.224 | 0.56 | 3000 | 9/16 |
| FD45-1101-06-06 | B3H21 | Female | Brass | 0.375 | 4 | NPTF | 3/8-18 | Poppet | Buna-N | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1000 | 1 1/16 | 65.024 | 2.56 | 36.068 | 1.42 | 22.352 | 0.88 | 2200 | 7/8 |

| Current FD45 P/N | Closest Equiv. HK Series P/N | Coupling Type | Material | Body Size | Port Class | Threads Spec | Threads Size | Valved | Seal Type | OAL (mm) | FD45 Specific Data DIA (in) | Hex (mm) | Max Press | Wrench Size | HK Specific Data | | | Max Hex (in) | Max Wrench Size | | | | | | |
|------------------|------------------------------|---------------|----------|-----------|------------|--------------|--------------|--------|--------------|----------|-----------------------------|----------|-----------|-------------|------------------|------|--------|--------------|-----------------|--------|------|--------|------|------|---------|
| | | | | | | | | | | | | | | | (mm) | (in) | (mm) | | | | | | | | |
| FD45-1101-12-12 | B6HP31 | Female | Brass | 0.375 | 9 | NPTF | 3/4-14 | Poppet | Buna-N | 86.4 | 3.4 | 51.1 | 2.01 | 41.1 | 1.62 | 1000 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 2000 | 1 5/16 |
| FD45-1101-20-20 | B10H41 | Female | Brass | 1.250 | 16 | NPTF | 1 1/4-11 1/2 | Poppet | Buna-N | 114 | 4.49 | 66.5 | 2.62 | 60.5 | 2.38 | 1000 | 2 3/8 | 114.554 | 4.51 | 69.342 | 2.73 | 60.452 | 2.38 | 1200 | 2 3/8 |
| FD45-1121-06-06 | LL3K21192 | Male | 304 SS | 0.375 | 4 | NPTF | 3/8-18 | Poppet | EPR | 42.9 | 1.69 | 0 | 0 | 22.4 | 0.88 | 1500 | 7/8 | 44.704 | 1.76 | 25.654 | 1.01 | 22.352 | 0.88 | 3700 | 7/8 |
| FD45-1121-12-12 | LL6KP31192 | Male | 304 SS | 0.375 | 9 | NPTF | 3/4-14 | Poppet | EPR | 58.2 | 2.29 | 0 | 0 | 33.3 | 1.31 | 1500 | 1 5/16 | 59.944 | 2.36 | 38.608 | 1.52 | 33.274 | 1.31 | 3500 | 1 5/16 |
| FD45-1122-04-04 | LL2H16192 | Female | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | Poppet | EPR | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 3000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 3700 | 3/4 |
| FD45-1122-08-10 | LL4HP26192 | Female | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | Poppet | EPR | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1500 | 1 5/16 | 75.184 | 2.96 | 47.244 | 1.86 | 28.702 | 1.13 | 4250 | 1 1/8 |
| FD45-1122-16-16 | LL8HP36192 | Female | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | EPR | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1250 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 3000 | 1 11/16 |
| FD45-1142-06-06 | LL3H21INV192 | Female | 304 SS | 0.375 | 4 | NPTF | 3/8-18 | NV | EPR | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1500 | 1 1/16 | 65.024 | 2.56 | 36.068 | 1.42 | 22.352 | 0.88 | 3700 | 7/8 |
| FD45-1142-12-12 | LL6HP31INV192 | Female | 304 SS | 0.375 | 9 | NPTF | 3/4-14 | NV | EPR | 89.4 | 3.52 | 51.1 | 2.01 | 41.1 | 1.62 | 1500 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 3500 | 1 5/16 |
| FD45-1153-02-02 | B1K1192 | Male | Brass | 0.125 | 1 | NPTF | 1/8-27 | Poppet | EPR | 32.5 | 1.28 | 0 | 0 | 14.2 | 0.56 | 1000 | 9/16 | 32.004 | 1.26 | 16.51 | 0.65 | 14.224 | 0.56 | 3000 | 9/16 |
| FD45-1153-06-06 | B3K21192 | Male | Brass | 0.375 | 4 | NPTF | 3/8-18 | Poppet | EPR | 42.9 | 1.69 | 0 | 0 | 22.4 | 0.88 | 1000 | 7/8 | 44.704 | 1.76 | 25.654 | 1.01 | 22.352 | 0.88 | 2200 | 7/8 |
| FD45-1153-12-12 | B6KP31192 | Male | Brass | 0.375 | 9 | NPTF | 3/4-14 | Poppet | EPR | 61.2 | 2.41 | 0 | 0 | 33.3 | 1.31 | 1000 | 1 5/16 | 59.944 | 2.36 | 38.608 | 1.52 | 33.274 | 1.31 | 2000 | 1 5/16 |
| FD45-1153-20-20 | B10K41192 | Male | Brass | 1.250 | 16 | NPTF | 1 1/4-11 1/2 | Poppet | EPR | 108 | 4.25 | 0 | 0 | 60.5 | 2.38 | 1000 | 2 3/8 | 107.95 | 4.25 | 69.342 | 2.73 | 60.452 | 2.38 | 1200 | 2 3/8 |
| FD45-1156-04-04 | B2H16192 | Female | Brass | 0.250 | 2 | NPTF | 1/4-18 | Poppet | EPR | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 1000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1156-08-10 | B4HP26192 | Female | Brass | 0.500 | 7 | NPTF | 1/2-14 | Poppet | EPR | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1000 | 1 5/16 | 75.184 | 2.96 | 47.244 | 1.86 | 28.702 | 1.13 | 2250 | 1 1/8 |
| FD45-1156-16-16 | B8HP36192 | Female | Brass | 1.000 | 13 | NPTF | 1-11 1/2 | Poppet | EPR | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1000 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 1500 | 1 11/16 |
| FD45-1168-08-06 | 3K8 | Male | Steel | 0.375 | 10 | SAE | 3/4-16 | Poppet | Buna-N | 50 | 1.97 | 0 | 0 | 25.4 | 1 | 4000 | 1 | 49.276 | 1.94 | 29.21 | 1.15 | 25.4 | 1 | 4000 | 1 |
| FD45-1172-04-04 | 2H16NV143 | Female | Steel | 0.250 | 2 | NPTF | 1/4-18 | NV | Fluorocarbon | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 5000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 5000 | 3/4 |
| FD45-1172-08-10 | 4HP26NV143 | Female | Steel | 0.500 | 7 | NPTF | 1/2-14 | NV | Fluorocarbon | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 4000 | 1 5/16 | 75.184 | 2.96 | 47.244 | 1.86 | 28.702 | 1.13 | 5000 | 1 1/8 |
| FD45-1172-16-16 | 8HP36NV143 | Female | Steel | 1.000 | 13 | NPTF | 1-11 1/2 | NV | Fluorocarbon | 102.1 | 4.02 | 62 | 2.44 | 50.8 | 2 | 4000 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 4000 | 1 11/16 |

Comparison Chart between FD45 and closest equivalent HK Series Couplings

26

| Current FD45 P/N | Closest Equiv. HK Series P/N | Coupling Type | Material | Body Size | Port Class | Threads Size | Valved | Seal Type | OAL (mm) | DIA (in) | Hex (mm) | Max Press | Wrench Size | HK Specific Data | | | Max Press | Wrench Size | | | | | | | |
|---------------------|---------------------------------|------------------|----------|--------------|---------------|-----------------|--------------|--------------|--------------|-------------|-------------|--------------|----------------|------------------|------|-------------|--------------|----------------|------|--------|------|--------|------|------|---------|
| | | | | | | | | | | | | | | DIA (mm) | (mm) | Hex (in) | | | | | | | | | |
| FD45-1175-04-04 | B2K16NW | Male | Brass | 0.250 | 2 | NPTF | 1/4-18 | NV | Buna-N | 34.8 | 1.37 | 0 | 0 | 17.5 | 0.69 | 1000 | 11/16 | 38.608 | 1.52 | 22.098 | 0.87 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1175-06-06 | B3K21NW | Male | Brass | 0.375 | 4 | NPTF | 3/8-18 | NV | Buna-N | 20.6 | 1.5 | 0 | 0 | 22.4 | 0.88 | 1000 | 7/8 | 44.704 | 1.76 | 25.654 | 1.01 | 22.352 | 0.88 | 2200 | 7/8 |
| FD45-1175-12-12 | B6KP31INV | Male | Brass | 0.375 | 9 | NPTF | 3/4-14 | NV | Buna-N | 50.8 | 2 | 0 | 0 | 33.3 | 1.31 | 1000 | 1 5/16 | 59.944 | 2.36 | 38.608 | 1.52 | 33.274 | 1.31 | 2000 | 1 5/16 |
| FD45-1175-20-20 | B10K41INV | Male | Brass | 1.250 | 16 | NPTF | 1 1/4-11 1/2 | NV | Buna-N | 108 | 4.25 | 0 | 0 | 60.5 | 2.38 | 1000 | 2 3/8 | 107.95 | 4.25 | 69.342 | 2.73 | 60.452 | 2.38 | 1200 | 2 3/8 |
| FD45-1176-04-04 | B2H16NW | Female | Brass | 0.250 | 2 | NPTF | 1/4-18 | NV | Buna-N | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 1000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1176-08-10 | B4HP26NW | Female | Brass | 0.500 | 7 | NPTF | 1/2-14 | NV | Buna-N | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1000 | 1 5/16 | 75.184 | 2.96 | 47.244 | 1.86 | 28.702 | 1.13 | 2250 | 1 1/8 |
| FD45-1176-16-16 | B8HP36NW | Female | Brass | 1.000 | 13 | NPTF | 1-11 1/2 | NV | Buna-N | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1000 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 1500 | 1 11/16 |
| FD45-1178-02-02 | B1H11NV192 | Female | Brass | 0.125 | 1 | NPTF | 1/8-27 | NV | EPR | 46 | 1.81 | 24.4 | 0.96 | 19.1 | 0.75 | 1000 | 3/4 | 48.514 | 1.91 | 24.892 | 0.98 | 14.224 | 0.56 | 3000 | 9/16 |
| FD45-1178-06-06 | B3H21NV192 | Female | Brass | 0.375 | 4 | NPTF | 3/8-18 | NV | EPR | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1000 | 1 1/16 | 65.024 | 2.56 | 36.068 | 1.42 | 22.352 | 0.88 | 2200 | 7/8 |
| FD45-1178-12-12 | B6HP31INV192 | Female | Brass | 0.375 | 9 | NPTF | 3/4-14 | NV | EPR | 86.4 | 3.4 | 51.1 | 2.01 | 41.1 | 1.62 | 1000 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 2000 | 1 5/16 |
| FD45-1178-20-20 | B10H41INV192 | Female | Brass | 1.250 | 16 | NPTF | 1 1/4-11 1/2 | NV | EPR | 114 | 4.49 | 66.5 | 2.62 | 60.5 | 2.38 | 1000 | 2 3/8 | 114.554 | 4.51 | 69.342 | 2.73 | 60.452 | 2.38 | 1200 | 2 3/8 |
| FD45-1180-04-04 | B2H16NW143 | Female | Brass | 0.250 | 2 | NPTF | 1/4-18 | NV | Fluorocarbon | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 1000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1180-08-10 | B4HP26NW143 | Female | Brass | 0.500 | 7 | NPTF | 1/2-14 | NV | Fluorocarbon | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1000 | 1 5/16 | 75.184 | 2.96 | 47.244 | 1.86 | 28.702 | 1.13 | 2250 | 1 1/8 |
| FD45-1180-16-16 | B8HP36NW143 | Female | Brass | 1.000 | 13 | NPTF | 1-11 1/2 | NV | Fluorocarbon | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1000 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 1500 | 1 11/16 |
| FD45-1195-04-04 | L12H16NW143 | Female | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | NV | Fluorocarbon | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 3000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 3700 | 3/4 |
| FD45-1195-08-10 | L14H26NW143 | Female | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | NV | Fluorocarbon | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1500 | 1 5/16 | 75.184 | 2.96 | 47.244 | 1.86 | 28.702 | 1.13 | 4250 | 1 1/8 |
| FD45-1195-16-16 | L18HP36NW143 | Female | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | NV | Fluorocarbon | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1250 | 2 | 104.902 | 4.13 | 66.294 | 2.61 | 44.45 | 1.75 | 3000 | 1 11/16 |
| FD45-1197-06-06 | L13H21VA143 | Female | 304 SS | 0.375 | 4 | NPTF | 3/8-18 | VAA | Fluorocarbon | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 1500 | 1 1/16 | 65.024 | 2.56 | 36.068 | 1.42 | 22.352 | 0.88 | 3700 | 7/8 |
| FD45-1197-12-12 | L16HP31VA143 | Female | 304 SS | 0.375 | 9 | NPTF | 3/4-14 | VAA | Fluorocarbon | 89.4 | 3.52 | 51.1 | 2.01 | 41.1 | 1.62 | 1500 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 3500 | 1 5/16 |
| FD45-1198-04-04 | B2H16VA143 | Female | Brass | 0.250 | 2 | NPTF | 1/4-18 | VAA | Fluorocarbon | 56.4 | 2.22 | 27.9 | 1.1 | 20.6 | 0.81 | 1000 | 13/16 | 57.404 | 2.26 | 28.956 | 1.14 | 19.05 | 0.75 | 2700 | 3/4 |
| FD45-1198-12-12 | B6HP31VA143 | Female | Brass | 0.375 | 9 | NPTF | 3/4-14 | VAA | Fluorocarbon | 86.4 | 3.4 | 50.5 | 1.99 | 41.1 | 1.62 | 1000 | 1 1/2 | 88.392 | 3.48 | 56.388 | 2.22 | 33.274 | 1.31 | 2000 | 1 5/16 |

| Current FD45 P/N | Closest Equiv. HK Series P/N | Coupling Type | Material | Body Size | Port Class | Threads Spec | Threads Size | Valved | Seal Type | 0AL (mm) | 0AL (in) | FD45 Specific Data DIA (mm) | FD45 Specific Data DIA (in) | Max Press (mm) | Max Press (in) | Wrench Size (mm) | Wrench Size (in) | Max Hex (mm) | Max Hex (in) | Wrench Size |
|------------------|------------------------------|---------------|----------|-----------|------------|--------------|--------------|--------|--------------|----------|----------|-----------------------------|-----------------------------|----------------|----------------|------------------|------------------|--------------|--------------|-------------|
| FD45-1201-12-12 | B6KP31VAA | Male | Brass | 0.375 | 9 | NPTF | 3/4-14 | VAA | Buna-N | 57.9 | 2.28 | 0 | 0 | 33.3 | 1.31 | 1000 | 1 5/16 | 59.94 | 2.36 | 38.608 |
| FD45-1203-12-12 | B6HP31VAA | Female | Brass | 0.375 | 9 | NPTF | 3/4-14 | VAA | Buna-N | 86.4 | 3.4 | 50.5 | 1.99 | 41.1 | 1.62 | 1000 | 1 1/2 | 88.392 | 3.48 | 56.388 |
| FD45-1207-06-06 | 3H2INV192 | Female | Steel | 0.375 | 4 | NPTF | 3/8-18 | NV | EPR | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 4000 | 1 1/16 | 65.024 | 2.56 | 36.068 |
| FD45-1207-12-12 | 6HP31NV192 | Female | Steel | 0.375 | 9 | NPTF | 3/4-14 | NV | EPR | 86.4 | 3.4 | 52.3 | 2.06 | 41.1 | 1.62 | 4000 | 1 1/2 | 88.392 | 3.48 | 56.388 |
| FD45-1209-04-04 | LL2H16VAA192 | Female | 304 SS | 0.250 | 2 | NPTF | 1/4-18 | VAA | EPR | 86.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 3000 | 13/16 | 57.404 | 2.26 | 28.956 |
| FD45-1209-08-10 | LL4HP26VAA192 | Female | 304 SS | 0.500 | 7 | NPTF | 1/2-14 | VAA | EPR | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 1500 | 1 5/16 | 75.184 | 2.96 | 47.244 |
| FD45-1209-16-16 | LL8HP36VAA192 | Female | 304 SS | 1.000 | 13 | NPTF | 1-11 1/2 | VAA | EPR | 102.1 | 4.02 | 60.5 | 2.38 | 50.8 | 2 | 1250 | 2 | 104.902 | 4.13 | 66.294 |
| FD45-1211-06-06 | B3H21VAA192 | Female | Brass | 0.375 | 4 | NPTF | 3/8-18 | VAA | EPR | 62.2 | 2.45 | 34.5 | 1.36 | 26.9 | 1.06 | 1000 | 1 1/16 | 65.024 | 2.56 | 36.068 |
| FD45-1228-04-04 | 2H16VAA143 | Female | Steel | 0.250 | 2 | NPTF | 1/4-18 | VAA | Fluorocarbon | 56.4 | 2.22 | 28.7 | 1.13 | 20.6 | 0.81 | 5000 | 13/16 | 57.404 | 2.26 | 28.956 |
| FD45-1228-16-10 | 4HP26VAA143 | Female | Steel | 0.500 | 7 | NPTF | 1/2-14 | VAA | Fluorocarbon | 72.6 | 2.86 | 42.9 | 1.69 | 33.3 | 1.31 | 4000 | 1 5/16 | 75.184 | 2.96 | 47.244 |
| FD45-1228-16-16 | 8HP36VAA143 | Female | Steel | 1.000 | 13 | NPTF | 1-11 1/2 | VAA | Fluorocarbon | 102.1 | 4.02 | 62 | 2.44 | 50.8 | 2 | 4000 | 2 | 104.902 | 4.13 | 66.294 |
| FD45-1229-06-06 | 3H21VAA192 | Female | Steel | 0.375 | 4 | NPTF | 3/8-18 | VAA | EPR | 62.2 | 2.45 | 35.1 | 1.38 | 26.9 | 1.06 | 4000 | 1 1/16 | 65.024 | 2.56 | 36.068 |
| FD45-1237-06-04 | 2H6192 | Female | Steel | 0.250 | 8 | SAE | 9/16-18 | Poppet | EPR | 58.7 | 2.31 | 28.7 | 1.13 | 23.9 | 0.94 | 5000 | 15/16 | 60.96 | 2.4 | 28.956 |
| FD45-1399-20-20 | B10K41NV143 | Male | Brass | 1.250 | 16 | NPTF | 1 1/4-11 1/2 | NV | Fluorocarbon | 108 | 4.25 | 0 | 0 | 60.5 | 2.38 | 1000 | 2 3/8 | 107.95 | 4.25 | 69.342 |
| FD45-1414-06-04 | 2H6 | Female | Steel | 0.250 | 8 | SAE | 9/16-18 | Poppet | Buna-N | 58.7 | 2.31 | 28.7 | 1.13 | 23.9 | 0.94 | 5000 | 15/16 | 60.96 | 2.4 | 28.956 |

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