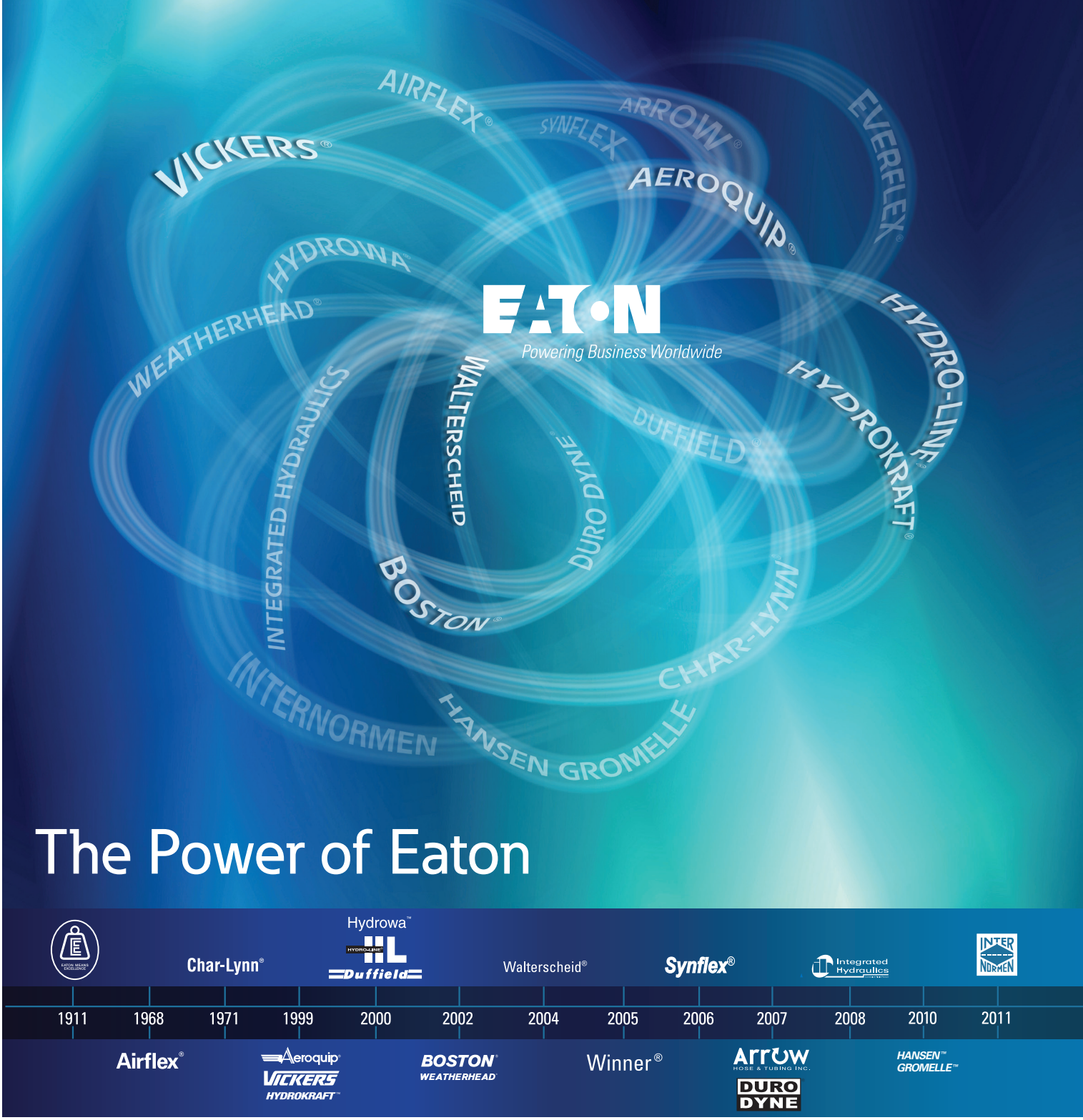
Eaton® Hansen™

HK Series ISO 7241/1 Series B Interchange

Powering Business Worldwide



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.

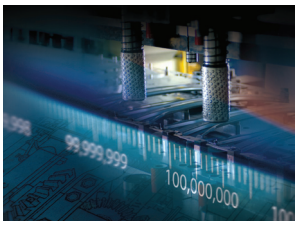
That's the power of Eaton.

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

Table of Contents

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.

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

Example: 4HP26 - VAA - SL - 143

Standard Part Number from Part Number Tables		
NV	=	No Valve[1]
VAA	=	Valve Actuator Assembly[2]
VB	=	Bleeder Valve (Plugs Only)[3]
SL	=	Sleeve Lock (Sockets Only)

Seal Material:
115 = PTFE[4]
118 = Neoprene
143 = Fluorocarbon
146 = Buna-N[5]
192 = EPDM[6]
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 8HKP plugs do not contain seals. Do not specify a seal material.

2) The VAA option should be specified for either a socket or a plug when a one-way coupling is desired. (Not available for series 10HK)

3) The VB option can be ordered for Series 1HK through 6HKP plugs to prevent pressure build-up in disconnected hydraulic lines or to reduce hose whip when disconnecting pneumatic lines.

4) Series HK couplings are designed for use with elastomer seals. PTFE is not an elastomer. It is rigid and not resilient. Couplings with PTFE seals may leak and/or be difficult to connect. Force to connect may be reduced by heating connected couplings in hot water; then, cooling before disconnecting. PTFE seals are available for Series 1-HK through 8-HKP, except Series P2-HK.

5) The 146 seal option may be specified for fuels and hydraulic fluids that are known to cause standard Buna-N seals to swell excessively.

6) The 236 EPDM seal option should be ordered for use with steam at or above 350° F. The 192 EPDM seal option should be ordered for hot water above 180° F and steam below 350° F.

7) Some part numbers may be subject to minimum order quantities and/or available only by special quotation. Consult your local distributor or sales representative.

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

3.0 Installation of Eaton Couplings.

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

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

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

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

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

Fluid Compatibility

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

How to Use the Chart

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

Seal Elastomer Data*

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

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

Resistance Rating Key

E = Excellent – Fluid has little or no effect

G = Good – Fluid has minor to moderate effect

C = Conditional – Service conditions should be described to Eaton for determination of suitability for application

U = Unsatisfactory

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

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

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

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

Fluid	Seals				Metal			
	Buna-N	Neoprene	EPR/EPDM	Viton	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
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U=Unsatisfactory

Fluid	Seals				Metal			
	Buna-N	Neoprene	EPR/EPDM	Viton	Steel	Brass	Stainless Steel	Aluminum
Aniline Dyes	U	G	G	G	U	C	G	C
Asphalt, < 200°F	G	C	U	E	E	G	E	C
IRM 901 Oil	E	E	C	E	E	E	E	E
IRM 902 Oil	E	G	U	E	E	E	E	E
IRM 903 Oil	E	C	U	E	E	E	E	E
Automatic Trans. Fluid	E	C	U	E	E	E	E	E
Barium Chloride, 10% aq	E	E	E	E	U	G	G	G
Barium Hydroxide, 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
Carbolic Acid (Phenol)	U	U	G	E	U	E	E	–
Carbonic Acid	G	E	E	E	U	C	E	G
Carbon Dioxide, Dry Gas	G	G	E	E	E	E	E	E
Carbon Disulfide	U	U	U	E	G	G	G	E
Carbon Monoxide	G	G	E	E	E	E	E	E
Carbon Tetrachloride	U	U	U	E	U	G	G	U
Castor Oil	E	E	G	E	E	E	E	E
Cellosolve Acetate	U	U	G	U	U	U	E	G
China Wood Oil (Tung Oil)	G	G	U	E	E	G	E	E
Chlorine Gas, Dry	U	U	U	G	C	C	C	C
Chloroacetic Acid	U	U	G	U	U	U	U	U
Chloroacetone	U	U	E	U	G	G	G	U
Chlorobenzene	U	U	U	G	G	G	G	G
Chloroform	U	U	U	E	G	G	G	G
O-Chlorophenol	U	U	U	E	G	G	G	U
Chlosulfonic Acid	U	U	U	U	G	U	G	G
Chrome Plating Solution	U	U	G	E	C	U	U	U
Chromic Acid	U	U	C	E	C	U	U	U
Citric Acid	E	E	E	E	C	C	C	C
Coke Oven Gas	U	U	U	E	E	C	E	U
Copper Chloride, 10% aq	E	E	E	E	U	U	U	U
Copper Cyanide, 10% aq	E	E	E	E	E	U	G	U
Copper Sulfate, 10% aq	E	E	E	E	U	C	G	U
Cotton Seed Oil	E	G	C	E	E	E	E	E
Creosote (Coal Tar)	G	C	U	E	E	C	E	E
Crude Oil	E	G	U	E	G	U	G	U
Cyclohexanol	E	G	U	E	E	E	E	C
Cyclohexanone	U	U	G	U	E	E	E	C
Detergent/Water Solution	E	E	E	E	G	E	E	E
Diacetone 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	–
Dioctyl 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
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Fluid	Seals				Metal			
	Buna-N	Neoprene	EPR/EPDM	Viton	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
Hydrofluorosilic Acid	G	G	E	E	U	U	U	U
Hydrogen	E	E	E	E	E	E	E	E
Hydrogen Peroxide	G	G	G	E	U	U	G	E
Hydrogen Sulfide, Dry	U	G	E	U	E	G	G	G
Isocyanate	U	U	G	E	G	–	G	–
Iso Octane	E	G	U	E	E	E	E	E
Isopropyl Acetate	U	U	G	U	E	–	E	E
Isopropyl Alcohol	G	G	E	E	E	E	E	G
Isopropyl Ether	G	U	U	U	G	G	G	–
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	Viton	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

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

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

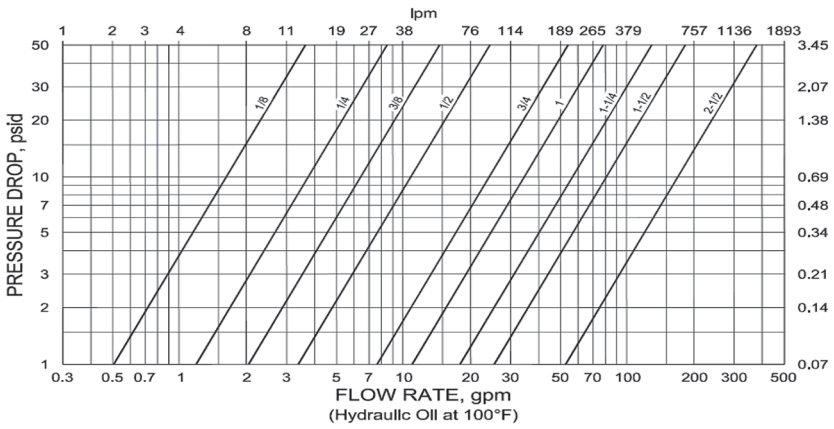
Physical Characteristics

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



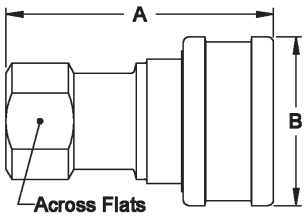


Fig. 1

HK Series ISO 7241/1 B
Steel

Sockets(Female)

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

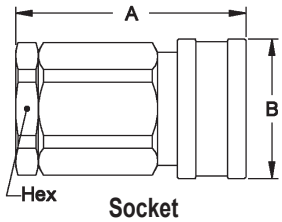


Fig. 2

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

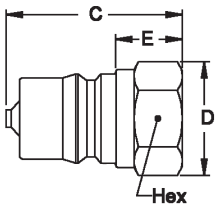
See Figure 2 A=Overall Length B=Maximum Diameter

* 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



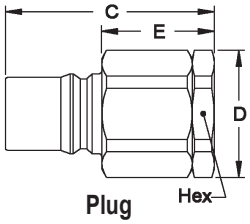


Fig. 4

Plugs(Male)

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

Part Number HK1-8 Series	High Impulse	Body Size (inch)	Thread Size (Female) NPTF	BSPP	Dimensions (inches) C	D	E	Hex	Dimensions (cm) 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	1 1/4-11 1/2	-	4.76	2.74	2.67	2.38	12.0.9	69.6	67.8	60.5
12K41BS	12K41CBS	1 1/2	-	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	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	-	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	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	-	2-11	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
20K56	20K56C	2 1/2	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	-	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	3-8	-	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6
20K61BS	20K61CBS	2 1/2	-	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	Vinyl	Socket Dust Plug Part No. Metal	Vinyl
1HK	PDC1HK*	PPDC1HK	SDC1HK*	PSDC1HK
2HK	PDC2HK*	PPDC2HK	SDC2HK*	PSDC2HK
3HK	PDC3HK*	PPDC3HK	SDC3HK*	PSDC3HK
4HK	PDC4HK**	PPDC4HK	SDC4HK**	PSDC4HK
6HK	PDC6HK**	PPDC6HK	SDC6HK**	PSDC6HK
8HK	PDC8HK**	PPDC8HK	SDC8HK**	PSDC8HK
12HK	PDC12HK*		SDC12HK*	
20HK	PDC20HK*		SDC20HK*	

* *Brass* ** *Aluminum*

HK Series 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 excelllent 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

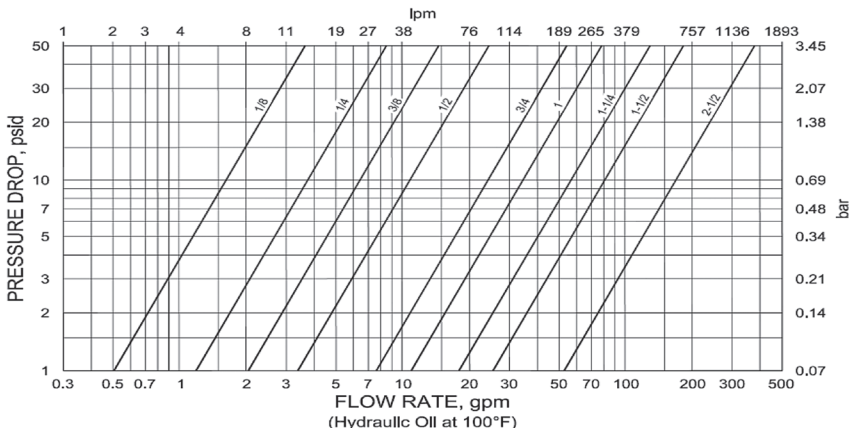
Physical Characteristics

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

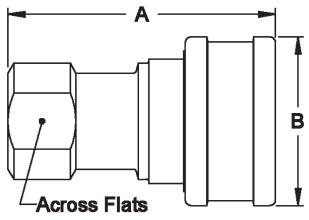
- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Chemical
- Oil and Gas
- Transportation
- Food and Beverage
- Trucks
- Nuclear



HK Series ISO 7241/1 B

Brass

Fig. 1



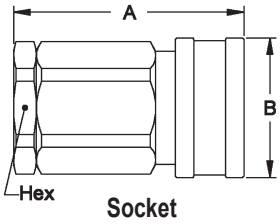


Fig. 2

Sockets(Female)

Part Number HK1-8 Series	Body Size (inch)	Thread Size (Female) NPTF	BSPP	Dimensions (inches) A	B	Across Flats	Dimensions (mm) A	B	Across Flats
B1H11	1/8	1/8-27	-	1.91	.98	.56	48.5	24.9	14.2
B2H16	1/4	1/4-18	-	2.26	1.14	.75	57.4	29.0	19.1
B2H16BS	1/4	-	1/4-19	2.31	1.14	.75	58.7	29.0	19.1
B3H21	3/8	3/8-18	-	2.56	1.42	.88	65.0	36.1	22.4
B3H21BS	3/8	-	3/8-19	2.56	1.42	.88	65.0	36.1	22.4
B4HP26	1/2	1/2-14	-	2.96	1.86	1.13	75.2	47.2	28.7
BAHP26BS	1/2	-	1/2-14	2.96	1.86	1.13	75.2	47.2	28.7
B6HP31	3/4	3/4-14	-	3.48	2.22	1.31	88.4	56.4	3.3.3
B6HP31BS	3/4	-	3/4-14	3.48	2.22	1.31	88.4	56.4	33.3
B8HP36	1	1-11 1/2	-	4.13	2.61	1.75	104.9	66.3	44.5
B8HP36BS	1	-	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)	Thread Size (Female) NPTF	BSPP	Dimensions (inches) A	B	HEX	Dimensions (mm) A	B	HEX
B10H41*	1 1/4	1 1/4-11 1/2	-	4.51	2.73	2.38	114.6	69.3	60.5
B12H41	1 1/2	1 1/4-11 1/2	-	4.82	3.23	2.38	122.4	82.0	60.5
B12H41BS	1 1/2	-	1 1/4 -11	4.82	3.23	2.38	122.4	82.0	60.5
B12H46	1 1/2	1 1/2-11	-	4.82	3.23	2.38	122.4	82.0	60.5
B12H46BS	1 1/2	-	1 1/2-11	4.82	3.23	2.38	122.4	82.0	60.5
B20H51	2 1/2	2-11 1/2	-	5.55	4.11	3.75	141.0	104.4	95.3
B20H51BS	2 1/2	-	2-11	5.55	4.11	3.75	141.0	104.4	95.3
B20H56	2 1/2	2 1/2-8	-	6.14	4.11	3.75	156.0	104.4	95.3
B20H56BS	2 1/2	-	2 1/2-11	6.14	4.11	3.75	156.0	104.4	95.3
B20H61	2 1/2	3-8	-	7.00	4.11	4.00	177.8	104.4	101.6
B20H61BS	2 1/2	-	3-11	7.00	4.11	4.00	177.8	104.4	101.6

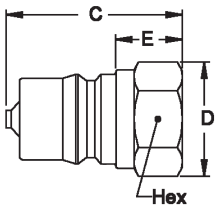
See Figure 2 A=Overall Length B=Maximum Diameter

* 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

Fig. 3



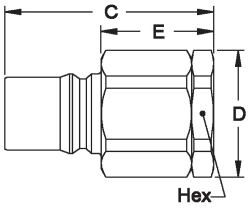


Fig. 4

Plugs(Male)

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

Part Number HK1-8 Series	Body Size (inch)	Thread Size (Female) NPTF	BSPP	Dimensions (inches) C	D	E	Hex	Dimensions (mm) 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	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	-	1 1/4-11	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K46	1 1/2	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	-	1 1/2-11	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B20K51	2 1/2	2-11 1/2	-	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
B20K51BS	2 1/2	-	2-11	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
B20K56	2 1/2	2 1/2-8	-	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
B20K56BS	2 1/2	-	2 1/2-11	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
B20K61	2 1/2	3-8	-	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6
B20K61BS	2 1/2	-	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	Vinyl	Socket Dust Plug Part No. Metal	Vinyl
1HK	PDC1HK*	PPDC1HK	SDC1HK*	PSDC1HK
2HK	PDC2HK*	PPDC2HK	SDC2HK*	PSDC2HK
3HK	PDC3HK*	PPDC3HK	SDC3HK*	PSDC3HK
4HK	PDC4HK**	PPDC4HK	SDC4HK**	PSDC4HK
6HK	PDC6HK**	PPDC6HK	SDC6HK**	PSDC6HK
8HK	PDC8HK**	PPDC8HK	SDC8HK**	PSDC8HK
12HK	PDC12HK*		SDC12HK*	
20HK	PDC20HK*		SDC20HK*	

* *Brass* ** *Aluminum*

HK Series 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

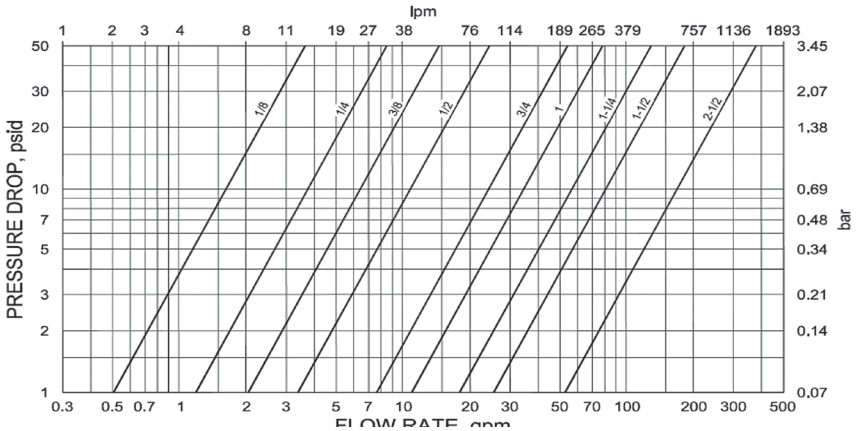
Physical Characteristics

Body Size	Max. Operating Pressure		Rated Flow		Air Inclusion	Fluid Loss
	bar	(psi)	L/min	(gpm)	cc. max.	cc. max.
1/8	344	5,000	3	0.8	0.6	0.5
1/4	255	3,700	12	3	1.2	0.9
3/8	255	3,700	23	6	2.9	2.1
1/2	293	4,250	45	12	3.6	3.5
3/4	242	3,500	100	26	11.5	9.3
1	207	3,000	189	50	18.0	16.9
1 1/4**	118	1,700	288	76	48.0	48.0
1 1/2	152	2,200	375	99	91.3	91.3
2 1/2	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



HK Series ISO 7241/1 B
Stainless Steel

Sockets(Female)

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

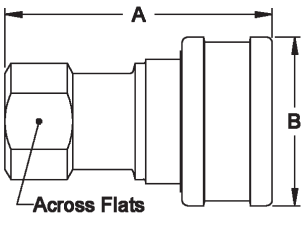
See Figure 1 A=Overall Length B=Maximum Diameter

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



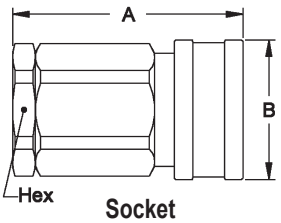
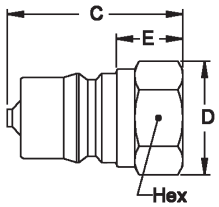


Fig. 2

HK Series ISO 7241/1 B
Stainless Steel

Fig. 3



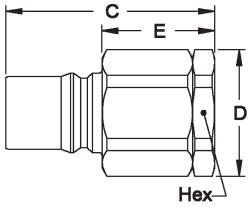


Fig. 4

Plugs (Male)

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

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

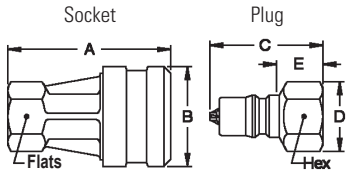
* *Brass* ** *Aluminum*

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

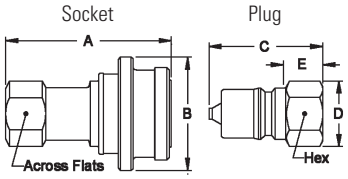
The Series P2-HK coupling is intended for use with air, water and various chemicals at low pressure. It is designed for use where an economical, light weight, corrorion resistant coupling is desired. All components, except springs and seals, are molded from natural polypropylene with a UV inhibitor.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



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

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.

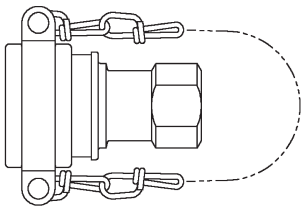


			Dimensions			Dimensions			
Part Number	**Description**	**Thread Size**	**A**	**B**	**Flats**	**C**	**D**	**E**	**HEX**
B3H21Y	Socket(Female)	3/8-18	2.56	1.75	0.88				
B3K21192	Plug(Male)	3/8-18				1.76	1.01	0.61	0.88

E = Exposed length when connected

Release Clamp with Chain

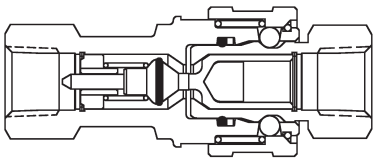
The steam coupling has a large diameter flange on the sleeve to aid gripping while the user wears heavy gloves. EPDM seals are standard, and can be used with steam at temperatures up to 350°F. Options are BSPP threads, sleeve lock, EPDM seals for use with steam at temperatures above 350°F and fluorocarbon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



Series	**Kit Part Number**
1HK	1HRCK
2HK	2HRCK
3HK	3HRCK
4HK	4HRCK
6HK	6HRCK
8HK	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	Plug Part No.	Valve Actuator
1HK	B1K11VB	B1K11VAA
2HK	B2K16VB	B2K16VAA
2HK	2K16CVB	2K16CVAA
3HK	B3K21VB	B3K21VAA
3HK	3K21VB	3K21VAA

Series	Plug Part No.	Valve Actuator
3HK	3K21CVB	3K21CVAA
4HKP	4KP26VB	4KP26VAA
6HKP	B6KP31VB	B6KP31VAA
6HKP	6KP31VB	6KP31VAA

Comparison Chart between FD45 and closest equivalent HK Series Couplings

Current FD45 P/N	Closest Equiv. HK Series P/N	Coupling Type	Material	Body Size	Port Class	Threads Spec	Threads Size	Valved	Seal Type	FD45 Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size	HK Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size
FD45-1002-02-02	1K11	Male	Steel	0.125	1	NPTF	1/8-27	Poppet	Buna-N	32.5	1.28	0	0	14.2	0.56	4500	9/16	32.004	1.26	16.51	0.65	14.224	0.56	4500	9/16
FD45-1002-02-02AA	1K11	Male	Steel	0.125	1	NPTF	1/8-27	Poppet	Buna-N	32.5	1.28	0	0	14.2	0.56	4500	9/16	32.004	1.26	16.51	0.65	14.224	0.56	4500	9/16
FD45-1002-04-04	2K16	Male	Steel	0.250	2	NPTF	1/4-18	Poppet	Buna-N	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
FD45-1002-06-06	3K21	Male	Steel	0.375	4	NPTF	3/8-18	Poppet	Buna-N	42.9	1.69	0	0	22.4	0.88	4000	7/8	44.704	1.76	25.654	1.01	22.352	0.88	4000	7/8
FD45-1002-06-06AA	3K21	Male	Steel	0.375	4	NPTF	3/8-18	Poppet	Buna-N	42.9	1.69	0	0	22.4	0.88	4000	7/8	44.704	1.76	25.654	1.01	22.352	0.88	4000	7/8
FD45-1002-08-10	4KP26	Male	Steel	0.500	7	NPTF	1/2-14	Poppet	Buna-N	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
FD45-1002-12-12	6KP31	Male	Steel	0.375	9	NPTF	3/4-14	Poppet	Buna-N	61.2	2.41	0	0	33.3	1.31	4000	1 5/16	59.944	2.36	38.608	1.52	33.274	1.31	4000	1 5/16
FD45-1002-16-16	8KP36	Male	Steel	1.000	13	NPTF	1-11 1/2	Poppet	Buna-N	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
FD45-1003-02-02	1H11	Female	Steel	0.125	1	NPTF	1/8-27	Poppet	Buna-N	46	1.81	24.4	0.96	19	0.75	4500	3/4	48.514	1.91	24.892	0.98	14.224	0.56	4500	9/16
FD45-1003-04-04	2H16	Female	Steel	0.250	2	NPTF	1/4-18	Poppet	Buna-N	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
FD45-1003-06-06	3H21	Female	Steel	0.375	4	NPTF	3/8-18	Poppet	Buna-N	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1003-08-10	4HP26	Female	Steel	0.500	7	NPTF	1/2-14	Poppet	Buna-N	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
FD45-1003-12-12	6HP31	Female	Steel	0.375	9	NPTF	3/4-14	Poppet	Buna-N	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1003-16-16	8HP36	Female	Steel	1.000	13	NPTF	1-11 1/2	Poppet	Buna-N	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 1 1/16
FD45-1004-04-04	LL2K16	Male	304 SS	0.250	2	NPTF	1/4-18	Poppet	Buna-N	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
FD45-1004-06-06	LL3K21	Male	304 SS	0.375	4	NPTF	3/8-18	Poppet	Buna-N	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
FD45-1004-08-10	LL4KP26	Male	304 SS	0.500	7	NPTF	1/2-14	Poppet	Buna-N	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
FD45-1004-12-12	LL6KP31	Male	304 SS	0.375	9	NPTF	3/4-14	Poppet	Buna-N	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
FD45-1004-16-16	LL8KP36	Male	304 SS	1.000	13	NPTF	1-11 1/2	Poppet	Buna-N	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
FD45-1005-04-04	LL2H16	Female	304 SS	0.250	2	NPTF	1/4-18	Poppet	Buna-N	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
FD45-1005-06-06	LL3H21	Female	304 SS	0.375	4	NPTF	3/8-18	Poppet	Buna-N	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
FD45-1005-08-10	LL4HP26	Female	304 SS	0.500	7	NPTF	1/2-14	Poppet	Buna-N	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
FD45-1005-12-12	LL6HP31	Female	304 SS	0.375	9	NPTF	3/4-14	Poppet	Buna-N	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
FD45-1005-16-16	LL8HP36	Female	304 SS	1.000	13	NPTF	1-11 1/2	Poppet	Buna-N	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
FD45-1045-04-04	2H16VAA	Female	Steel	0.250	2	NPTF	1/4-18	VAA	Buna-N	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
FD45-1045-06-06	3H21VAA	Female	Steel	0.375	4	NPTF	3/8-18	VAA	Buna-N	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1045-08-10	4HP26VAA	Female	Steel	0.500	7	NPTF	1/2-14	VAA	Buna-N	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
FD45-1045-12-12	6HP31VAA	Female	Steel	0.375	9	NPTF	3/4-14	VAA	Buna-N	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1045-16-16	8HP36VAA	Female	Steel	1.000	13	NPTF	1-11 1/2	VAA	Buna-N	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
FD45-1046-04-04	2K16VAA	Male	Steel	0.250	2	NPTF	1/4-18	VAA	Buna-N	38.1	1.5	0	0	19	0.75	5000	3/4	38.608	1.52	22.098	0.87	19.05	0.75	5000	3/4
FD45-1046-06-06	3K21VAA	Male	Steel	0.375	4	NPTF	3/8-18	VAA	Buna-N	42.2	1.66	0	0	22.4	0.88	4000	7/8	44.704	1.76	25.654	1.01	22.352	0.88	4000	7/8
FD45-1046-08-10	4KP26VAA	Male	Steel	0.500	7	NPTF	1/2-14	VAA	Buna-N	49	1.93	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
FD45-1046-08-10	4KP26VAA	Male	Steel	0.500	7	NPTF	1/2-14	VAA	Buna-N	49	1.93	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
FD45-1046-12-12	6KP31VAA	Male	Steel	0.375	9	NPTF	3/4-14	VAA	Buna-N	57.4	2.26	0	0	33.3	1.31	4000	1 5/16	59.944	2.36	38.608	1.52	33.274	1.31	4000	1 5/16
FD45-1046-12-12	6KP31VAA	Male	Steel	0.375	9	NPTF	3/4-14	VAA	Buna-N	57.4	2.26	0	0	33.3	1.31	4000	1 5/16	59.944	2.36	38.608	1.52	33.274	1.31	4000	1 5/16
FD45-1046-16-16	8KP36VAA	Male	Steel	1.000	13	NPTF	1-11 1/2	VAA	Buna-N	69.1	2.72	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
FD45-1046-16-16	8KP36VAA	Male	Steel	1.000	13	NPTF	1-11 1/2	VAA	Buna-N	69.1	2.72	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
FD45-1047-04-04	2H16NV	Female	Steel	0.250	2	NPTF	1/4-18	NV	Buna-N	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
FD45-1047-06-06	3H21NV	Female	Steel	0.375	4	NPTF	3/8-18	NV	Buna-N	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1047-08-10	4HP26NV	Female	Steel	0.500	7	NPTF	1/2-14	NV	Buna-N	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
FD45-1047-12-12	6HP31NV	Female	Steel	0.375	9	NPTF	3/4-14	NV	Buna-N	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1047-16-16	8HP36NV	Female	Steel	1.000	13	NPTF	1-11 1/2	NV	Buna-N	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

Current FD45 P/N	Closest Equiv. HK Series P/N	Coupling Type	Material	Body Size	Port Class	Threads Spec	Threads Size	Valved	Seal Type	FD45 Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size	HK Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size
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	57.404	2.26	28.956	1.14	19.05	0.75	3700	3/4
FD45-1053-06-06	LL3H21NV	Female	304 SS	0.375	4	NPTF	3/8-18	NV	Buna-N	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
FD45-1053-08-10	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	75.184	2.96	47.244	1.86	28.702	1.13	4250	1 1/8
FD45-1053-12-12	LL6HP31NV	Female	304 SS	0.375	9	NPTF	3/4-14	NV	Buna-N	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
FD45-1053-16-16	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	104.902	4.13	66.294	2.61	44.45	1.75	3000	1 11/16
FD45-1056-04-04	LL2H16VAA	Female	304 SS	0.250	2	NPTF	1/4-18	VAA	Buna-N	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
FD45-1056-06-06	LL3H21VAA	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	65.024	2.56	36.068	1.42	22.352	0.88	3700	7/8
FD45-1056-08-10	LL4HP26VAA	Female	304 SS	0.500	7	NPTF	1/2-14	VAA	Buna-N	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
FD45-1056-12-12	LL6HP31VAA	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	88.392	3.48	56.388	2.22	33.274	1.31	3500	1 5/16
FD45-1056-16-16	LL8HP36VAA	Female	304 SS	1.000	13	NPTF	1-11 1/2	VAA	Buna-N	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
FD45-1059-04-04	LL2K16VAA	Male	304 SS	0.250	2	NPTF	1/4-18	VAA	Buna-N	33.8	1.33	0	0	17.5	0.69	3000	11/16	38.608	1.52	22.098	0.87	19.05	0.75	3700	3/4
FD45-1059-06-06	LL3K21VAA	Male	304 SS	0.375	4	NPTF	3/8-18	VAA	Buna-N	38.1	1.5	0	0	22.4	0.88	1500	7/8	44.704	1.76	25.654	1.01	22.352	0.88	3700	7/8
FD45-1059-08-10	LL4KP26VAA	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	51.562	2.03	33.02	1.3	28.702	1.13	4250	1 1/8
FD45-1059-12-12	LL6KP31VAA	Male	304 SS	0.375	9	NPTF	3/4-14	VAA	Buna-N	50.8	2	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
FD45-1059-16-16	LL8KP36VAA	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	72.39	2.85	47.752	1.88	41.402	1.63	3000	1 5/8
FD45-1061-04-04	2K16NV	Male	Steel	0.250	2	NPTF	1/4-18	NV	Buna-N	34.8	1.37	0	0	19	0.75	5000	3/4	38.608	1.52	22.098	0.87	19.05	0.75	5000	3/4
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	0.88	4000	7/8	44.704	1.76	25.654	1.01	22.352	0.88	4000	7/8
FD45-1061-08-10	4KP26NV	Male	Steel	0.500	7	NPTF	1/2-14	NV	Buna-N	44.7	1.76	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
FD45-1061-12-12	6KP31NV	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	59.944	2.36	38.608	1.52	33.274	1.31	4000	1 5/16
FD45-1061-16-16	8KP36NV	Male	Steel	1.000	13	NPTF	1-11 1/2	NV	Buna-N	61.7	2.43	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
FD45-1062-04-04	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	38.608	1.52	22.098	0.87	19.05	0.75	3700	3/4
FD45-1062-06-06	LL3K21NV	Male	304 SS	0.375	4	NPTF	3/8-18	NV	Buna-N	38.1	1.5	0	0	22.4	0.88	1500	7/8	44.704	1.76	25.654	1.01	22.352	0.88	3700	7/8
FD45-1062-08-10	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	51.562	2.03	33.02	1.3	28.702	1.13	4250	1 1/8
FD45-1062-12-12	LL6KP31NV	Male	304 SS	0.375	9	NPTF	3/4-14	NV	Buna-N	50.8	2	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
FD45-1062-16-16	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	72.39	2.85	47.752	1.88	41.402	1.63	3000	1 5/8
FD45-1064-02-02	1K11192	Male	Steel	0.125	1	NPTF	1/8-27	Poppet	EPR	32.5	1.28	0	0	14.2	0.56	4500	9/16	32.004	1.26	16.51	0.65	14.224	0.56	4500	9/16
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	38.608	1.52	22.098	0.87	19.05	0.75	5000	3/4
FD45-1064-06-06	3K21192	Male	Steel	0.375	4	NPTF	3/8-18	Poppet	EPR	42.9	1.69	0	0	22.4	0.88	4000	7/8	44.704	1.76	25.654	1.01	22.352	0.88	4000	7/8
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	51.562	2.03	33.02	1.3	28.702	1.13	5000	1 1/8
FD45-1064-12-12	6KP31192	Male	Steel	0.375	9	NPTF	3/4-14	Poppet	EPR	61.2	2.41	0	0	33.3	1.31	4000	1 5/16	59.944	2.36	38.608	1.52	33.274	1.31	4000	1 5/16
FD45-1064-16-16	8KP36192	Male	Steel	1.000	13	NPTF	1-11 1/2	Poppet	EPR	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
FD45-1065-02-02	1H11192	Female	Steel	0.125	1	NPTF	1/8-27	Poppet	EPR	46	1.81	24.4	0.96	19	0.75	4500	3/4	48.514	1.91	24.892	0.98	14.224	0.56	4500	9/16
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	57.404	2.26	28.956	1.14	19.05	0.75	5000	3/4
FD45-1065-06-06	3H21192	Female	Steel	0.375	4	NPTF	3/8-18	Poppet	EPR	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1065-08-10	4HP26192	Female	Steel	0.500	7	NPTF	1/2-14	Poppet	EPR	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
FD45-1065-12-12	6HP31192	Female	Steel	0.375	9	NPTF	3/4-14	Poppet	EPR	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1065-16-16	8HP36192	Female	Steel	1.000	13	NPTF	1-11 1/2	Poppet	EPR	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
FD45-1070-02-02	1H11143	Female	Steel	0.125	1	NPTF	1/8-27	Poppet	Viton	46	1.81	24.4	0.96	19	0.75	4500	3/4	48.514	1.91	24.892	0.98	14.224	0.56	4500	9/16
FD45-1070-04-04	2H16143	Female	Steel	0.250	2	NPTF	1/4-18	Poppet	Viton	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
FD45-1070-06-06	3H21143	Female	Steel	0.375	4	NPTF	3/8-18	Poppet	Viton	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1070-08-10	4HP26143	Female	Steel	0.500	7	NPTF	1/2-14	Poppet	Viton	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
FD45-1070-12-12	6HP31143	Female	Steel	0.375	9	NPTF	3/4-14	Poppet	Viton	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16

Comparison Chart between FD45 and closest equivalent HK Series Couplings

Current FD45 P/N	Closest Equiv. HK Series P/N	Coupling Type	Material	Body Size	Port Class	Threads Spec	Threads Size	Valved	Seal Type	FD45 Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size	HK Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size
FD45-1070-16-16	8HP36143	Female	Steel	1.000	13	NPTF	1-11 1/2	Poppet	Viton	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
FD45-1071-02-02	1K11143	Male	Steel	0.125	1	NPTF	1/8-27	Poppet	Viton	32.5	1.28	0	0	14.2	0.56	4500	9/16	32.004	1.26	16.51	0.65	14.224	0.56	4500	9/16
FD45-1071-04-04	2K16143	Male	Steel	0.250	2	NPTF	1/4-18	Poppet	Viton	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
FD45-1071-06-06	3K21143	Male	Steel	0.375	4	NPTF	3/8-18	Poppet	Viton	42.9	1.69	0	0	22.4	0.88	4000	7/8	44.704	1.76	25.654	1.01	22.352	0.88	4000	7/8
FD45-1071-08-10	4KP26143	Male	Steel	0.500	7	NPTF	1/2-14	Poppet	Viton	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
FD45-1071-12-12	6KP31143	Male	Steel	0.375	9	NPTF	3/4-14	Poppet	Viton	61.2	2.41	0	0	33.3	1.31	4000	1 5/16	59.944	2.36	38.608	1.52	33.274	1.31	4000	1 5/16
FD45-1071-16-16	8KP36143	Male	Steel	1.000	13	NPTF	1-11 1/2	Poppet	Viton	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
FD45-1076-04-04	LL2H16143	Female	304 SS	0.250	2	NPTF	1/4-18	Poppet	Viton	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
FD45-1076-06-06	LL3H21143	Female	304 SS	0.375	4	NPTF	3/8-18	Poppet	Viton	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
FD45-1076-08-10	LL4HP26143	Female	304 SS	0.500	7	NPTF	1/2-14	Poppet	Viton	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
FD45-1076-12-12	LL6HP31143	Female	304 SS	0.375	9	NPTF	3/4-14	Poppet	Viton	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
FD45-1076-16-16	LL8HP36143	Female	304 SS	1.000	13	NPTF	1-11 1/2	Poppet	Viton	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
FD45-1078-04-04	LL2K16143	Male	304 SS	0.250	2	NPTF	1/4-18	Poppet	Viton	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
FD45-1078-06-06	LL3K21143	Male	304 SS	0.375	4	NPTF	3/8-18	Poppet	Viton	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
FD45-1078-08-10	LL4KP26143	Male	304 SS	0.500	7	NPTF	1/2-14	Poppet	Viton	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
FD45-1078-12-12	LL6KP31143	Male	304 SS	0.375	9	NPTF	3/4-14	Poppet	Viton	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
FD45-1078-16-16	LL8KP36143	Male	304 SS	1.000	13	NPTF	1-11 1/2	Poppet	Viton	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
FD45-1086-02-02	B1K11	Male	Brass	0.125	1	NPTF	1/8-27	Poppet	Buna-N	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
FD45-1086-04-04	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
FD45-1086-06-06	B3K21	Male	Brass	0.375	4	NPTF	3/8-18	Poppet	Buna-N	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
FD45-1086-08-10	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
FD45-1086-12-12	B6KP31	Male	Brass	0.375	9	NPTF	3/4-14	Poppet	Buna-N	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
FD45-1086-16-16	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
FD45-1086-20-20	B10K41	Male	Brass	1.250	16	NPTF	1 1/4-11 1/2	Poppet	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
FD45-1091-02-02	B1H11143	Female	Brass	0.125	1	NPTF	1/8-27	Poppet	Viton	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
FD45-1091-04-04	B2H16143	Female	Brass	0.250	2	NPTF	1/4-18	Poppet	Viton	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
FD45-1091-06-06	B3H21143	Female	Brass	0.375	4	NPTF	3/8-18	Poppet	Viton	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
FD45-1091-08-10	B4HP26143	Female	Brass	0.500	7	NPTF	1/2-14	Poppet	Viton	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
FD45-1091-12-12	B6HP31143	Female	Brass	0.375	9	NPTF	3/4-14	Poppet	Viton	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
FD45-1091-16-16	B8HP36143	Female	Brass	1.000	13	NPTF	1-11 1/2	Poppet	Viton	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
FD45-1091-20-20	B10H41143	Female	Brass	1.250	16	NPTF	1 1/4-11 1/2	Poppet	Viton	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
FD45-1092-02-02	B1K11143	Male	Brass	0.125	1	NPTF	1/8-27	Poppet	Viton	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
FD45-1092-04-04	B2K16143	Male	Brass	0.250	2	NPTF	1/4-18	Poppet	Viton	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
FD45-1092-06-06	B3K21143	Male	Brass	0.375	4	NPTF	3/8-18	Poppet	Viton	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
FD45-1092-08-10	B4KP26143	Male	Brass	0.500	7	NPTF	1/2-14	Poppet	Viton	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
FD45-1092-12-12	B6KP31143	Male	Brass	0.375	9	NPTF	3/4-14	Poppet	Viton	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
FD45-1092-16-16	B8KP36143	Male	Brass	1.000	13	NPTF	1-11 1/2	Poppet	Viton	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
FD45-1092-20-20	B10K41143	Male	Brass	1.250	16	NPTF	1 1/4-11 1/2	Poppet	Viton	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
FD45-1101-02-02	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
FD45-1101-04-04	B2H16	Female	Brass	0.250	2	NPTF	1/4-18	Poppet	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
FD45-1101-06-06	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
FD45-1101-08-10	B4HP26	Female	Brass	0.500	7	NPTF	1/2-14	Poppet	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

Current FD45 P/N	Closest Equiv. HK Series P/N	Coupling Type	Material	Body Size	Port Class	Threads Spec	Threads Size	Valved	Seal Type	FD45 Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size	HK Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size
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
FD45-1101-16-16	B8HP36	Female	Brass	1.000	13	NPTF	1-11 1/2	Poppet	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
FD45-1101-20-20	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
FD45-1121-04-04	LL2K16192	Male	304 SS	0.250	2	NPTF	1/4-18	Poppet	EPR	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
FD45-1121-06-06	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
FD45-1121-08-10	LL4KP26192	Male	304 SS	0.500	7	NPTF	1/2-14	Poppet	EPR	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
FD45-1121-12-12	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
FD45-1121-16-16	LL8KP36192	Male	304 SS	1.000	13	NPTF	1-11 1/2	Poppet	EPR	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
FD45-1122-04-04	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
FD45-1122-06-06	LL3H21192	Female	304 SS	0.375	4	NPTF	3/8-18	Poppet	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
FD45-1122-08-10	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
FD45-1122-12-12	LL6HP31192	Female	304 SS	0.375	9	NPTF	3/4-14	Poppet	EPR	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
FD45-1122-16-16	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
FD45-1142-04-04	LL2H16NV192	Female	304 SS	0.250	2	NPTF	1/4-18	NV	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
FD45-1142-06-06	LL3H21NV192	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
FD45-1142-08-10	LL4HP26NV192	Female	304 SS	0.500	7	NPTF	1/2-14	NV	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
FD45-1142-12-12	LL6HP31NV192	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
FD45-1142-16-16	LL8HP36NV192	Female	304 SS	1.000	13	NPTF	1-11 1/2	NV	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
FD45-1153-02-02	B1K11192	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
FD45-1153-04-04	B2K16192	Male	Brass	0.250	2	NPTF	1/4-18	Poppet	EPR	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
FD45-1153-06-06	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
FD45-1153-08-10	B4KP26192	Male	Brass	0.500	7	NPTF	1/2-14	Poppet	EPR	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
FD45-1153-12-12	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
FD45-1153-16-16	B8KP36192	Male	Brass	1.000	13	NPTF	1-11 1/2	Poppet	EPR	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
FD45-1153-20-20	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
FD45-1156-02-02	B1H11192	Female	Brass	0.125	1	NPTF	1/8-27	Poppet	EPR	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
FD45-1156-04-04	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
FD45-1156-06-06	B3H21192	Female	Brass	0.375	4	NPTF	3/8-18	Poppet	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
FD45-1156-08-10	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
FD45-1156-12-12	B6HP31192	Female	Brass	0.375	9	NPTF	3/4-14	Poppet	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
FD45-1156-16-16	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
FD45-1156-20-20	B10H41192	Female	Brass	1.250	16	NPTF	1 1/4-11 1/2	Poppet	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
FD45-1168-08-06	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
FD45-1168-16-16	8KP16	Male	Steel	1.000	17	SAE	1 5/16-12	Poppet	Buna-N	69.1	2.72	0	0	41.1	1.62	4000	1 1/2	72.39	2.85	55.118	2.17	47.752	1.88	4000	1 7/8
FD45-1169-08-06	3H8	Female	Steel	0.375	10	SAE	3/4-16	Poppet	Buna-N	69.3	2.73	34.5	1.36	26.9	1.06	4000	1 1/16	69.596	2.74	36.068	1.42	25.4	1	4000	1
FD45-1169-16-16	8HP16	Female	Steel	1.000	17	SAE	1 5/16-12	Poppet	Buna-N	102.1	4.02	61.5	2.42	50.8	2	4000	2	104.902	4.13	66.294	2.61	47.752	1.88	4000	1 7/8
FD45-1172-04-04	2H16NV143	Female	Steel	0.250	2	NPTF	1/4-18	NV	Viton	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
FD45-1172-06-06	3H21NV143	Female	Steel	0.375	4	NPTF	3/8-18	NV	Viton	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1172-08-10	4HP26NV143	Female	Steel	0.500	7	NPTF	1/2-14	NV	Viton	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
FD45-1172-12-12	6HP31NV143	Female	Steel	0.375	9	NPTF	3/4-14	NV	Viton	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1172-16-16	8HP36NV143	Female	Steel	1.000	13	NPTF	1-11 1/2	NV	Viton	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
FD45-1175-02-02	B1K11NV	Male	Brass	0.125	1	NPTF	1/8-27	NV	Buna-N	30.5	1.2	0	0	14.2	0.56	1000	9/16	32.004	1.26	16.51	0.65	14.224	0.56	3000	9/16

Comparison Chart between FD45 and closest equivalent HK Series Couplings

Current FD45 P/N	Closest Equiv. HK Series P/N	Coupling Type	Material	Body Size	Port Class	Threads Spec	Threads Size	Valved	Seal Type	FD45 Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size	HK Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size
FD45-1175-04-04	B2K16NV	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	B3K21NV	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
FD45-1175-06-06	B3K21NV	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
FD45-1175-08-10	B4KP26NV	Male	Brass	0.500	7	NPTF	1/2-14	NV	Buna-N	44.7	1.76	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
FD45-1175-12-12	B6KP31NV	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
FD45-1175-16-16	B8KP36NV	Male	Brass	1.000	13	NPTF	1-11 1/2	NV	Buna-N	61.7	2.43	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
FD45-1175-20-20	B10K41NV	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
FD45-1176-02-02	B1H11NV	Female	Brass	0.125	1	NPTF	1/8-27	NV	Buna-N	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
FD45-1176-04-04	B2H16NV	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
FD45-1176-06-06	B3H21NV	Female	Brass	0.375	4	NPTF	3/8-18	NV	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
FD45-1176-08-10	B4HP26NV	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
FD45-1176-12-12	B6HP31NV	Female	Brass	0.375	9	NPTF	3/4-14	NV	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
FD45-1176-16-16	B8HP36NV	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
FD45-1176-20-20	B10H41NV	Female	Brass	1.250	16	NPTF	1 1/4-11 1/2	NV	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
FD45-1178-02-02	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
FD45-1178-04-04	B2H16NV192	Female	Brass	0.250	2	NPTF	1/4-18	NV	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
FD45-1178-06-06	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
FD45-1178-08-10	B4HP26NV192	Female	Brass	0.500	7	NPTF	1/2-14	NV	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
FD45-1178-12-12	B6HP31NV192	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
FD45-1178-16-16	B8HP36NV192	Female	Brass	1.000	13	NPTF	1-11 1/2	NV	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
FD45-1178-20-20	B10H41NV192	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
FD45-1180-02-02	B1H11NV143	Female	Brass	0.125	1	NPTF	1/8-27	NV	Viton	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
FD45-1180-04-04	B2H16NV143	Female	Brass	0.250	2	NPTF	1/4-18	NV	Viton	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
FD45-1180-06-06	B3H21NV143	Female	Brass	0.375	4	NPTF	3/8-18	NV	Viton	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
FD45-1180-08-10	B4HP26NV143	Female	Brass	0.500	7	NPTF	1/2-14	NV	Viton	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
FD45-1180-12-12	B6HP31NV143	Female	Brass	0.375	9	NPTF	3/4-14	NV	Viton	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
FD45-1180-16-16	B8HP36NV143	Female	Brass	1.000	13	NPTF	1-11 1/2	NV	Viton	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
FD45-1180-20-20	B10H41NV143	Female	Brass	1.250	16	NPTF	1 1/4-11 1/2	NV	Viton	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
FD45-1195-04-04	LL2H16NV143	Female	304 SS	0.250	2	NPTF	1/4-18	NV	Viton	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
FD45-1195-06-06	LL3H21NV143	Female	304 SS	0.375	4	NPTF	3/8-18	NV	Viton	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
FD45-1195-08-10	LL4HP26NV143	Female	304 SS	0.500	7	NPTF	1/2-14	NV	Viton	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
FD45-1195-12-12	LL6HP31NV143	Female	304 SS	0.375	9	NPTF	3/4-14	NV	Viton	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
FD45-1195-16-16	LL8HP36NV143	Female	304 SS	1.000	13	NPTF	1-11 1/2	NV	Viton	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
FD45-1197-04-04	LL2H16VAA143	Female	304 SS	0.250	2	NPTF	1/4-18	VAA	Viton	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
FD45-1197-06-06	LL3H21VAA143	Female	304 SS	0.375	4	NPTF	3/8-18	VAA	Viton	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
FD45-1197-08-10	LL4HP26VAA143	Female	304 SS	0.500	7	NPTF	1/2-14	VAA	Viton	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
FD45-1197-12-12	LL6HP31VAA143	Female	304 SS	0.375	9	NPTF	3/4-14	VAA	Viton	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
FD45-1197-16-16	LL8HP36VAA143	Female	304 SS	1.000	13	NPTF	1-11 1/2	VAA	Viton	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
FD45-1199-04-04	B2H16VAA143	Female	Brass	0.250	2	NPTF	1/4-18	VAA	Viton	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
FD45-1199-06-06	B3H21VAA143	Female	Brass	0.375	4	NPTF	3/8-18	VAA	Viton	62.2	2.45	34.5	1.36	26.9	1.06	1000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	2200	7/8
FD45-1199-12-12	B6HP31VAA143	Female	Brass	0.375	9	NPTF	3/4-14	VAA	Viton	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
FD45-1201-04-04	B2K16VAA	Male	Brass	0.250	2	NPTF	1/4-18	VAA	Buna-N	38.1	1.5	0	0	17.5	0.69	1000	11/16	38.608	1.52	22.098	0.87	19.05	0.75	2700	3/4

Current FD45 P/N	Closest Equiv. HK Series P/N	Coupling Type	Material	Body Size	Port Class	Threads Spec	Threads Size	Valved	Seal Type	FD45 Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	Wrench Size	HK Specific Data OAL (mm)	OAL (in)	DIA (mm)	DIA (in)	Hex (mm)	Hex (in)	Max Press	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	59.944	2.36	38.608	1.52	33.274	1.31	2000	1 5/16
FD45-1203-04-04	B2H16VAA	Female	Brass	0.250	2	NPTF	1/4-18	VAA	Buna-N	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
FD45-1203-12-12	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	2.22	33.274	1.31	2000	1 5/16
FD45-1207-04-04	2H16NV192	Female	Steel	0.250	2	NPTF	1/4-18	NV	EPR	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
FD45-1207-06-06	3H21NV192	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	1.42	22.352	0.88	4000	7/8
FD45-1207-08-10	4HP26NV192	Female	Steel	0.500	7	NPTF	1/2-14	NV	EPR	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
FD45-1207-12-12	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	2.22	33.274	1.31	4000	1 5/16
FD45-1207-16-16	8HP36NV192	Female	Steel	1.000	13	NPTF	1-11 1/2	NV	EPR	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
FD45-1209-04-04	LL2H16VAA192	Female	304 SS	0.250	2	NPTF	1/4-18	VAA	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
FD45-1209-06-06	LL3H21VAA192	Female	304 SS	0.375	4	NPTF	3/8-18	VAA	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
FD45-1209-08-10	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	1.86	28.702	1.13	4250	1 1/8
FD45-1209-12-12	LL6HP31VAA192	Female	304 SS	0.375	9	NPTF	3/4-14	VAA	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
FD45-1209-16-16	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	2.61	44.45	1.75	3000	1 11/16
FD45-1211-04-04	B2H16VAA192	Female	Brass	0.250	2	NPTF	1/4-18	VAA	EPR	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
FD45-1211-06-06	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	1.42	22.352	0.88	2200	7/8
FD45-1211-12-12	B6HP31VAA192	Female	Brass	0.375	9	NPTF	3/4-14	VAA	EPR	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
FD45-1228-04-04	2H16VAA143	Female	Steel	0.250	2	NPTF	1/4-18	VAA	Viton	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
FD45-1228-06-06	3H21VAA143	Female	Steel	0.375	4	NPTF	3/8-18	VAA	Viton	62.2	2.45	35.1	1.38	26.9	1.06	4000	1 1/16	65.024	2.56	36.068	1.42	22.352	0.88	4000	7/8
FD45-1228-08-10	4HP26VAA143	Female	Steel	0.500	7	NPTF	1/2-14	VAA	Viton	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
FD45-1228-12-12	6HP31VAA143	Female	Steel	0.375	9	NPTF	3/4-14	VAA	Viton	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1228-16-16	8HP36VAA143	Female	Steel	1.000	13	NPTF	1-11 1/2	VAA	Viton	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
FD45-1229-04-04	2H16VAA192	Female	Steel	0.250	2	NPTF	1/4-18	VAA	EPR	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
FD45-1229-06-06	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	1.42	22.352	0.88	4000	7/8
FD45-1229-08-10	4HP26VAA192	Female	Steel	0.500	7	NPTF	1/2-14	VAA	EPR	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
FD45-1229-12-12	6HP31VAA192	Female	Steel	0.375	9	NPTF	3/4-14	VAA	EPR	86.4	3.4	52.3	2.06	41.1	1.62	4000	1 1/2	88.392	3.48	56.388	2.22	33.274	1.31	4000	1 5/16
FD45-1229-16-16	8HP36VAA192	Female	Steel	1.000	13	NPTF	1-11 1/2	VAA	EPR	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
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	1.14	22.352	0.88	5000	7/8
FD45-1238-06-04	2K6192	Male	Steel	0.250	8	SAE	9/16-18	Poppet	EPR	42.7	1.68	0	0	20.6	0.81	5000	13/16	42.164	1.66	25.654	1.01	22.352	0.88	5000	7/8
FD45-1399-20-20	B10K41NV143	Male	Brass	1.250	16	NPTF	1 1/4-11 1/2	NV	Viton	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
FD45-1400-20-20	B10K41NV192	Male	Brass	1.250	16	NPTF	1 1/4-11 1/2	NV	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
FD45-1414-06-04	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	1.14	22.352	0.88	5000	7/8
FD45-1415-06-04	2K6	Male	Steel	0.250	8	SAE	9/16-18	Poppet	Buna-N	42.7	1.68	0	0	20.6	0.81	5000	13/16	42.164	1.66	25.654	1.01	22.352	0.88	5000	7/8

Eaton
Hydraulics Group USA
1000 W. Bagley Road
Berea, OH 44017-0805
USA
Tel: 440-826-1115
Fax: 440-826-1105
www.eaton.com/hydraulics

Eaton
Hydraulics Group USA
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952-937-9800
Fax: 952-294-7722
www.eaton.com/hydraulics

Eaton
Hydraulics Group Europe
Route de la Longeraie 7
1110 Morges
Switzerland
Tel: +41 (0) 21 811 4600
Fax: +41 (0) 21 811 4601

Eaton
Hydraulics Group Asia Pacific
Eaton Building
4th Floor, No. 3 Lane 280
Linhong Rd. Changning District
Shanghai 200335
China
Tel: (+86 21) 5200 0099
Fax: (+86 21) 5200 0400

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Printed in USA
Document No. E-MEQD-MC005-E
Dec. 2011